ΗΜΕΡΟΜΗΝΙΑ ΓΕΝΝΗΣΕΩΣ: 11 Μαρτίου 1982
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ΧΡΙΣΤΟΣ ΜΑΣΟΥΡΟΣ **PhD, Fellow IEEE, FIET**

Καθηγητής πρώτης βαθμίδας, Dept. Electronics & Electrical Engineering,
University College London
Royal Academy of Engineering Research Fellow 2011-2016

ΣΥΝΤΟΜΟ ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

Ο **Χρίστος Μασούρος** (Fellow IEEE, FIET) έλαβε το πτυχίο Ηλεκτρολόγων Μηχανικών και Τεχνολογίας Υπολογιστών από το Πανεπιστήμιο Πατρών, το 2004, και MSc και το Διδακτορικό Ηλεκτρολόγου και Ηλεκτρονικού Μηχανικού από το Πανεπιστήμιο του Μάντσεστερ, Ηνωμένο Βασίλειο το 2006 και 2009 αντίστοιχα. Το 2008 ήταν ερευνητής στα Philips Research Labs του Ηνωμένου Βασιλείου. Μεταξύ 2009-2010 ήταν ερευνητικός συνεργάτης στο Πανεπιστήμιο του Μάντσεστερ και μεταξύ 2010-2012 ερευνητικός συνεργάτης στο Queen's University Belfast. Το 2012 έγινε μέλος ΔΕΠ του University College London ως Λέκτορας. Ήταν κάτοχος της υψηλού κύρους υποτροφίας Royal Academy of Engineering Research Fellowship μεταξύ 2011-2016.

Σήμερα είναι Καθηγητής πρώτης βαθμίδας στο ερευνητικο εργαστήριο Μηχανικών Πληροφορικής και Επικοινωνιών, Τμήμα Ηλεκτρολόγων και Ηλεκτρονικών Μηχανικών, University College London. Τα ερευνητικά του ενδιαφέροντα βρίσκονται στον τομέα των ασύρματων επικοινωνιών και της επεξεργασίας σήματος με ιδιαίτερη έμφαση στις «πράσινες» τηλεπικοινωνίες, τα συστήματα κεραιών μεγάλης κλίμακας, τα γνωστικά ράδια, τις τεχνικές μετριασμού παρεμβολών για MIMO και τις επικοινωνίες πολλαπλών φορέων. Είναι βραβευμένος με τα 2024 IEEE SPS Best Paper Award, 2024 IEEE SPS Donald G. Fink Overview Paper Award, 2023 IEEE ComSoc Stephen O. Rice Prize, και 2021 IEEE SPS Young Author Best Paper Award και έλαβε τα βραβεία καλύτερης ερευνητικής εργασίας στα συνέδρια IEEE GlobeCom 2015 και IEEE WCNC 2019 και έχει αναγνωριστεί ως Exemplary Editor για τα IEEE Communications Letters και ως Exemplary Reviewer για τις IEEE Transactions on Communications. Είναι Area Editor για τα IEEE Transactions on Wireless Communications, και Editor-at-Large για IEEE Open Journal of the Communications Society. Διετέλεσε Editor IEEE Transactions on Communications, Associate Editor για IEEE Communications Letters και Guest Editor σε πολλαπλά Special Issues του IEEE Journal on Selected Topics in Signal Processing. Είναι founding member και Vice-Chair του IEEE Emerging Technology Initiative on Integrated Sensing and Communications (ISAC), Vice Chair του ETSI Industry Specification Group (ISG) on ISAC, και Chair του IEEE Green Communications & Computing Technical Committee, Special Interest Group on Green ISAC. Έχει διατελέσει TPC chair του IEEE ICC 2024 Selected Areas in Communications (SAC) Track on ISAC, TPC Co-Chair of IEEE VTC 2025.

ΕΡΕΥΝΗΤΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

Τα κύρια ερευνητικά μου ενδιαφέροντα αφορούν Ασύρματες Ψηφιακές Τηλεπικοινωνίες και ειδικότερα τεχνικές για την βελτιστοποίηση Ασυρμάτων Κυψελωτών Δικτύων και Δικτύων Αισθητήρων. Αυτές εν γένει περιλαμβάνουν συστήματα Πολλαπλής Εισόδου Πολλαπλής Εξόδου (Multiple Input Multiple Output (MIMO)) καθώς και «πράσινες» ενεργειακά αποδοτικές τηλεπικοινωνίες. Πιο συγκεκριμένα η ερευνά μου επικεντρώνεται σε τεχνικές προκωδικοποίησης για συστήματα 5^{ης} γενιάς (5G and Beyond) και επεξεργασία σήματος στον πομπό τηλεπικοινωνιακών συστημάτων. Ακολουθεί μια περίληψη των ερευνητικών ενδιαφερόντων μου:

Ασύρματες Ψηφιακές Τηλεπικοινωνίες, Συστήματα Πολλαπλής Εισόδου Πολλαπλής Εξόδου (MIMO), Τεχνικές Προκωδικοποίησης, Εκμετάλλευση Εποικοδομητικής Παρεμβολής, «Πράσινες» Τηλεπικοινωνίες, Συστήματα Κεραιών Μεγάλης Κλίμακας, Φασματική Συνύπαρξη Τηλεπικοινωνιών και Ραντάρ, Ασφαλή Τηλεπικοινωνιακά Συστήματα Φυσικού Επιπέδου, Μηχανική Μάθηση με εφαρμογές στις Τηλεπικοινωνίες

ΕΡΕΥΝΗΤΙΚΑ ΠΡΟΓΡΑΜΜΑΤΑ ΚΑΙ ΣΥΝΕΡΓΑΣΙΑ

Ιαν '24 –Δεκ '27 — Πρόγραμμα από EU - MSCA Doctoral Network — Λονδίνο, HB
Επιστημονικός Συντονιστής έργου
Scientific Coordinator
"Integrated Sensing and communications for future vehicuLAr environments – a Network of Doctoral Students [ISLANDS]"
- Συνεργάτες έργου: *CNIT, Chalmers U. Tampere U., American College of Greece, Bosch, Nokia, WaveUp, and RadChat*

Νοε '23 –Οκτ '25 — Πρόγραμμα από EU - MSCA Fellowship — Λονδίνο, HB
Συντονιστής έργου
Project Coordinator
"Connected Sensing Techniques: Cooperative Radar Networks Using Joint Radar and Communication Waveforms (ConSenT)"
- Υποτροφία που απονέμεται στον Δρ Kawon Han

Νοε '23 –Οκτ '25 — Πρόγραμμα από EU - MSCA Fellowship — Λονδίνο, HB
Συντονιστής έργου
Project Coordinator
"Design and performance analysis of network-level ISAC: More than Integration (NetISAC)"
- Υποτροφία που απονέμεται στον Δρ Kaitao Meng
- Συνεργάτες έργου: American College of Greece (GR)

Σεπ '23 –Μαρ '26 — Πρόγραμμα από Innovate UK – KTP Partnership — Λονδίνο, HB
Ακαδημαϊκός Επικεφαλής
"University College London and Plextek Limited KTP 22_23 R8"
- Συνεργάτες έργου: Plextek (UK)

Νοε '22 –Απρ '26 — Πρόγραμμα από EPSRC — Λονδίνο, HB
Συν-Ερευνητής
Co- Investigator
"Transmission Channels Measurements and Communication System Design for Future mm Wave Communications [mmWave TRACCS]"
- Συνεργάτες έργου: *QMUL, U. Durham, BT, Filtronic, NEC, Plextek, QinetiQ, Thales, Sinowave*

Απρ '22 –Μαρ '25 — Ανάθεση έργου από Huawei Corporation — Λονδίνο, HB
Κύριος ερευνητής και Σύμβουλος
Principal Investigator and Consultant
"Integrated Sensing and Communications, multicell transmission and resource allocation"
- Συνεργάτες έργου: Huawei (Sweden)

Δεκ '21 –Μαρ '25 — Πρόγραμμα από DSTL — Λονδίνο, HB
Συν-Ερευνητής
Co- Investigator and Work Package Lead in
"Next generation information networks [NGIN]" -
- Συνεργάτες έργου: *Serapis Defense Network, U. Edinburgh, U. Bristol, Queens U. Belfast, U. Sheffield, Herriot Watt*

Ιουν '21 –Δεκ '21 — Πρόγραμμα από DASA — Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator
"Design and Testing of Low Probability Of Intercept (LPI) Waveforms For Joint Radar And Communications [DASA-LPI]"
- Συνεργάτες έργου: *QinetiQ (UK)*

Νοε '20 –Οκτ '21 — Πρόγραμμα από EPSRC – D2U — Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator
"Testing and Refinement of Dual Communications and Radar Waveforms in Commercially Relevant Environments [DCRW]"
- Συνεργάτες έργου: *QinetiQ (UK), Hunan Apollo Intelligent Transport Co. Ltd (China), American College of Greece* (GR)

Σεπ '20 –Αυγ '21 — Ανάθεση έργου από Huawei Corporation — Λονδίνο, HB
Σύμβουλος
"Enabling Joint Sensing and Communication for MmWave Cellular: Hardware-Constrained Designs"
Συνεργάτες έργου: Huawei (Sweden)

Ιαν '21 –Δεκ '23 — Πρόγραμμα από EPSRC — Λονδίνο, HB

Συν-Ερευνητής
Co- Investigator

*"**Advanced signal generation/detection system for ultra-wideband communication networks**" EPSRC Capital Equipment Grant*
Συνεργάτες έργου: *XTERA, Nokia, KDDI research, Huawei, Lumentum Technology, BT, NEC, Cable Labs, Mitsubishi Electric, Keysight Technologies, Microsoft, Viavi Solutions, Socionext, Micram Microelectronic, Aston U., U. Cambridge, King's College London, U. Southampton, U. Surrey,*

Ιουν '19 –Μαι '22 Πρόγραμμα από EPSRC Λονδίνο, HB
Συν-Ερευνητής
Co- Investigator

"Signal Sensing, Design and Delivery for Electronic Warfare"

- Συνεργάτες έργου: Imperial College London (UK), Thales (UK), IBM (USA), US Army (USA), Fraunhofer (GE), U. Kansas (USA)

Αυγ '20 –Φεβ' '21 Ανάθεση έργου από Huawei Corporation Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

«Enabling Joint Sensing and Communication for MmWave Cellular: Hardware-Constrained Designs»

- Συνεργάτες έργου: Huawei (Κίνα)

Μάιος '20 - Απρίλιος '21 Ανάθεση έργου από NECCorporation Λονδίνο, HB
Συν-Ερευνητής
Co- Investigator

" Evaluation and analysis of beamforming and spectrally efficient techniques for point-to-point microwave and mm-wave radio"

- Συνεργάτης έργου: NEC (Ιαπωνία)

Οκτ '19 –Ιουν' '20 Ανάθεση έργου από Huawei Corporation Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

" MU-MIMO enhancement by Constructive Interference Exploitation Precoding"

- Συνεργάτες έργου: Huawei (Κίνα)

Σεπ '19 -Αυγ '22 Πρόγραμμα από EPSRC Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

" Learning to Communicate: Deep Learning based solutions for the Physical Layer of Machine Type Communications [LeanCom]"

- Εταίροι έργου: Huawei (FR), NEC (Ιαπωνία), U. Duke (ΗΠΑ), Digital Catapult (Ηνωμένο Βασίλειο), CommNet2 (Ηνωμένο Βασίλειο)

Σεπ '19 - Δεκ '19 Έργο από EPSRC - IAA Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

" Artificial Intelligence for Satellite Communications Interference"

- Εταίροι του έργου: EutelSat, Digital Catapult (Ηνωμένο Βασίλειο)

Ιούνιος '19 - Μάιος '22 Έργο από EPSRC Λονδίνο, HB
Συν-Ερευνητής
Co-Investigator

«Signal Sensing, Design and Delivery for Electronic Warfare»

- Εταίροι του έργου: Imperial College London (Ηνωμένο Βασίλειο), Thales (Ηνωμένο Βασίλειο), IBM (ΗΠΑ), Στρατός των ΗΠΑ (ΗΠΑ), Fraunhofer (GE), Πανεπιστήμιο του Κάνσας (ΗΠΑ)

Οκτ '18 -Σεπ '22 Έργο από την ΕΕ - MSCA ITN Λονδίνο, HB
Συντονιστής έργου
Project Coordinator

" energy-autonomous Portable Access points for INfrastructure-LESS networks [PAINLESS]"

- Εταίροι του έργου: *Nokia Bell Labs (IR), Reseiwe (DE), Lyra Electronics (Ηνωμένο Βασίλειο), Orion Technologies (GR), RIO Systems (IL), U. Manchester (UK), Supelec (FR), Athens Information Technology (GR), Aalborg University (DE), Πανεπιστήμιο Κύπρου (CY)*

Απρ '18 –Μαρ '21 Έργο από EPSRC Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

" Interference Exploitation for physical layer security in 5G networks [CI-PHY]"

- Εταίροι έργου: Πανεπιστήμιο του Λουξεμβούργου (LU), HUAWEI (Ηνωμένο Βασίλειο), National Instruments (Ηνωμένο Βασίλειο), QinetiQ (Ηνωμένο Βασίλειο), BT (Ηνωμένο Βασίλειο)

Νοε '18 – Οκτ '20 Έργο της ΕΕ - Υποτροφία MSCA Λονδίνο, HB

Συντονιστής έργου
Project Coordinator

" Combining MIMO Radar with MU-MIMO Communications: More than Coexistence"

- Υποτροφία που απονέμεται στον Δρ Fan Liu
- Εταίροι έργου: *Athens Information Technology* (GR)

Φεβ '18 -Αυγ '19 Έργο από EPSRC - D2U Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

" Development and testing of a pre-commercialisation prototype of an Electronically Steerable Parasitic Array Radiator (ESPAR) transceiver "

- Εταίροι του έργου: Cobham Wireless (Ηνωμένο Βασίλειο), QinetiQ (Ηνωμένο Βασίλειο), *Athens Information Technology* (GR)

Απρ '15 –Μαρ '18 Έργο από EPSRC Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

«Large Scale Antenna Systems Made Practical: Advanced Signal Processing for Compact Deployments (LSAS-SP)"

- Εταίροι του έργου: Πανεπιστήμιο Heriot Watt (Ηνωμένο Βασίλειο), Bell Labs (ΗΠΑ), QinetiQ (Ηνωμένο Βασίλειο), *Athens Information Technology* (GR)

Σεπ '11 - Αυγ '16 Έργο από RAEng Λονδίνο, HB
Κύριος ερευνητής
Principal Investigator

" Interference as a Source of Green Signal Power in Wireless Communications"

- υποστήριξη από τα Bell Labs (ΗΠΑ), EURECOM (FR), *Athens Information Technology* (GR)

Μαρ '11 -Αυγ '12 Έργο της ΕΕ FP7 Μπέλφαστ, HB
Ερευνητικός Συνεργάτης
Research Fellow

" enHanced Interference Alignment Techniques for Unprecedented Spectral efficiency (HIATUS)"

- συνεργασία με την Τεχνολογία Πληροφοριών Αθηνών (AIT), Βασιλικό Ινστιτούτο Τεχνολογίας (KTH), Τεχνικό Πανεπιστήμιο Βιέννης (TUV), Univesitat Pompeu Fabria, Supelec, Ericsson

Μάιος '10 –Απρ '12 Έργο της ΕΕ FP7 Μπέλφαστ, HB
Ερευνητικός Συνεργάτης
Research Fellow

" Cognitive Radio Oriented Wireless Networks (CROWN)"

- συνεργασία με την *Athens Information Technology* (AIT), EURECOM, Πανεπιστήμιο Τεχνολογίας του Ντάρμσταντ (TUD), Intel Mobile Communications, QuinetiQ, Office of Communications (Ofcom), Ινστιτούτο Έρευνας Inforcomm (I2R) Σιγκαπούρη

Φεβ '09 –Απρ '10 Έργο EPSRC Μάντσεστερ, HB
Ερευνητικός Συνεργάτης
Research Fellow

" Actuated Acoustic Sensor Networks for Industrial Processes (AASN4IP)"

- συνεργασία με το Πανεπιστήμιο της Οξφόρδης, Nexia solutions, Phoenix Inspection systems Ltd, Κέντρο Ενεργειακών Ερευνών του Ηνωμένου Βασιλείου

Μαρ '07 –Μαρ '09 Έργο από την EPSRC και τα Ερευνητικά Εργαστήρια της Philips Μάντσεστερ, HB
CASE PhD υποτροφία

" Advanced Interference Mitigation Techniques for Wireless Cellular Systems "

ΕΚΠΑΙΔΕΥΣΗ

DOCTOR OF PHILOSOPHY (PHD) *Οκτ '06 – Μαρ '09*

2 Μαρ '09 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

Εξέταση διδακτορικής διατριβής για την απονομή του διπλώματος PhD in Communications Engineering:

Επιτυχής με μικρές διορθώσεις (pass with minor corrections)

Σεπ '08 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

Τίτλος διδακτορικής διατριβής: **"*Investigation and Analysis of Interference Exploitation in Wireless Communication Systems*"**

Οκτ '06 –Μαρ '09 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

PhD in Communications Engineering

MASTERS BY RESEARCH (MPHIL) *Σεπ '05 – Σεπ '06*

Σεπ '06 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

Τίτλος διατριβής: **"*Link Enhancement Techniques for Multiuser CDMA Communications*"**

Σεπ '05 – Σεπ '06 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

MPhil in Communications Engineering

Δίπλωμα Ηλεκτρολόγου Μηχανικού *Σεπ '99 – Σεπ '04*

Σεπ '04 Πανεπιστήμιο Πατρών, Τμήμα Ηλεκτρολόγων Μηχανικών και Τεχνολογίας Υπολογιστών Πάτρα, Ελλάδα

Τίτλος διπλωματικής εργασίας: ***"Σχεδιασμός Ψηφιακού Πομπού Ευρέως Φάσματος και Υλοποίηση Δεκτή RAKE με Εκτιμητή Καναλιού"***

Σεπ '99 – Σεπ '04 Πανεπιστήμιο Πατρών, Τμήμα Ηλεκτρολόγων Μηχανικών και Τεχνολογίας Υπολογιστών Πάτρα, Ελλάδα

Δίπλωμα Ηλεκτρολόγου Μηχανικού & Τεχνολογίας Υπολογιστών

- Βαθμός πτυχίου : 7.42
- Μέσος όρος δύο τελευταίων ετών ειδικότητας : 8.46

ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΕΜΠΕΙΡΙΑ

Οκτ '19 - Παρόν University College London Λονδίνο, HB

Καθηγητής Πρώτης Βαθμίδας

Ομάδα Μηχανικών Πληροφοριών και Επικοινωνιών

- Διευθυντής του MSc σε ασύρματες και οπτικές επικοινωνίες
- Διευθυντής του MSc για τη Μηχανική Διαστημικής Επιστήμης
- Διδασκαλία:
  - ELECGT24, Ευρυζωνικές Τεχνολογίες και Στοιχεία (MSc)
  - ELECGT22, Αρχές Ασύρματης Επικοινωνίας (MSc)
  - ELECM013, Επεξεργασία Ψηφιακού Σήματος(3ο Έτος UG, MEng)
  - 1ο Έτος UG Δάσκαλος

Οκτ '17 -Σεπ '19 University College London Λονδίνο, HB

Αναπληρωτής Καθηγητής

Ομάδα Επικοινωνιών και Πληροφοριακών Συστημάτων

- Διευθυντής του MSc σε ασύρματες και οπτικές επικοινωνίες
- Διευθυντής του MSc για τη Μηχανική Διαστημικής Επιστήμης
- Διδασκαλία:
  - ELECGT24, Ευρυζωνικές Τεχνολογίες και Στοιχεία (MSc)
  - ELECGT22, Αρχές Ασύρματης Επικοινωνίας (MSc)
  - ELECM013, Επεξεργασία Ψηφιακού Σήματος(3ο Έτος UG, MEng)
  - 1ο Έτος UG Δάσκαλος

Οκτ '16 -Σεπ' 17 University College London Λονδίνο, HB

Επίκουρος

Ομάδα Επικοινωνιών και Πληροφοριακών Συστημάτων

- Διευθυντής του MSc για τη Μηχανική Διαστημικής Επιστήμης

- Διδασκαλία:
  - ELECGT24, Ευρυζωνικές Τεχνολογίες και Στοιχεία (MSc)
  - ELECGT22, Αρχές Ασύρματης Επικοινωνίας (MSc)
  - ELECM013, Επεξεργασία Ψηφιακού Σήματος(3ο Έτος UG, MEng)
  - 1ο Έτος UG Δάσκαλος

Σεπ '12 -Σεπ '16 — University College London — Λονδίνο, HB
Λέκτορας
Ομάδα Επικοινωνιών και Πληροφοριακών Συστημάτων

- Διδασκαλία:
  - ELECGT24, Ευρυζωνικές Τεχνολογίες και Στοιχεία (MSc)
  - ELECGT22, Αρχές Ασύρματης Επικοινωνίας (MSc)
  - ELECM013, Επεξεργασία Ψηφιακού Σήματος(3ο Έτος UG, MEng)
  - 1ο Έτος UG Δάσκαλος

Μάιος '10 - Αυγ '12 — Queen's University Belfast — Μπέλφαστ, HB
Ερευνητής
"enHanced Interference Alignment Techniques for Unprecedented Spectral efficiency (HIATUS)"

- *Πρόγραμμα τύπου FET-Open υπό την Ευρωπαϊκή Ενωση - FP7*
- *Εκπόνηση έρευνας σε τεχνικές εκπομπής/λήψης, ανίχνευσης και διαχείρηση φάσματος για δίκτυα γνωστικών ραδίων*
- *Ενεργή συμμετοχή στην καθοδήγηση των 8 διδακτορικών και Μεταπτυχιακών φοιτητών της ερευνητικής ομάδας*
- *Συντονισμός της συγγραφής της ετήσιας επιστημονικής έκθεσης προς την Ευρωπαϊκή Επιτροπή*

Φεβ '09 –Απρ '10 — Πανεπιστήμιο του Μάντσεστερ, — Μάντσεστερ, HB
Ερευνητικός Συνεργάτης
Actuated Acoustic Sensor Networks for Industrial Processes (AASN4IP)

- Στο πλαίσιο του προγράμματος EPSRC *Wired και Wireless Intelligent Networked Systems* (WINES) III για την ανάληψη έρευνας σε ασύρματα δίκτυα αισθητήρων για βιομηχανικές διεργασίες
- Διεξαγωγή έρευνας και παραγωγή δημοσιεύσεων σχετικά με τα στρώματα PHY και MAC των ακουστικών ασύρματων δικτύων αισθητήρων
- Συμμετέχουν ενεργά στην καθοδήγηση και καθοδήγηση των δύο διδακτορικών φοιτητών στο πλαίσιο του έργου και φοιτητές MSc που εργάζονται σε συναφή έργα

Απρ 08' – 08 Ιουνίου' — Ερευνητικά Εργαστήρια της Philips, — Redhill, HB
Intern έρευνας

- Ερευνητική επίσκεψη (Πρακτική άσκηση) για συνεργασία με τα ερευνητικά εργαστήρια της Philips για μια περίοδο 6 εβδομάδων για να εργαστεί σε αλγορίθμους ασύρματων επικοινωνιών με βάση τη μακροπρόθεσμη εξέλιξη (LTE) των προτύπων 3GPP
- Συμμετοχή σε συναντήσεις, παρουσιάσεις, καταιγισμού ιδεών και συνεδρίες εκμάθησης LTE στο πλαίσιο της Ερευνητικής Ομάδας της Philips για τις Ασύρματες Επικοινωνίες

ΑΚΑΔΗΜΑΪΚΗ ΕΜΠΕΙΡΙΑ

ΔΙΔΑΣΚΑΛΙΑ — ***Σεπ '12 – Παρόν***

Οκτ '12 - Σήμερα — University College London — London, UK

- ELEC0108, Broadband Technologies and Components (MSc)
- ELEC0104, Wireless Communications Principles (MSc)
- ELEC0024, Digital Signal Processing (3rd Year UG)
- ELECM013, Digital Signal Processing (4th Year MEng)
- Professional Development Module (MSc)

CONFERENCE TUTORIALS

Μαι '26 IEEE ICC 2026 – Glasgow, UK
C. Masouros, K. Meng, K. Han, "Integrated Sensing, Communications, and Security: From Theory to Proof-of-Concept Demonstration",

Σεπ '25 IEEE EuMW 2025 – Utrecht, NE
C. Masouros, M. S. Greco, "Integrated Sensing and Communications: Fundamentals, State-of-the-Aart and the Road Ahead",

Σεπ '25 IEEE EUSIPCO 2025 – Palermo, IT
C. Masouros, K. Meng, K. Han, "Integrated Sensing and Communications: Signalling, Security, and Networks"

Αυγ '25 IEEE ICCC 2025 – Shanghai, CN
Z. Wei, L. Sun, **C. Masouros "**Towards Secure and Trustworthy 6G: New Challenges and Physical Layer Solutions"

Ιουν '25 EU MSCA Doctoral Network ISLANDS 2025 Summer School – Cassino, IT
C. Masouros, "Sustainable Networks for 6G and Beyond: What Signal Processing Can Do"

Ιουν '25 IEEE EUCNC 2025 – Poznan, PO
C. Masouros, K. Meng, K. Han, "Integrated Sensing and Communications on the Road to 6G"

Μαρ '25 IEEE Wireless Communications and Networking Conference 2025 – Milan, IT
C. Masouros, K. Meng, K. Han, "Integrated Sensing and Communications: From Signalling to Network-Level Design"

Οκτ' 24 IEEE AESS International Radar Conference 2024 – Rennes, FR
C. Masouros, M. Ritchie, M. Temiz, "*Multi-Function RF Systems for Radar and Communication*"

Σεπ' 24 IEEE Personal Indoor Mobile Radio Communications, PIMRC 2024 – Valencia, ES
C. Masouros, "*Resource Reuse and Multifunctionality: The Road to Sustainable 6G Networks*"

Ιουλ' 24 IEEE International Mediterranean Conference on Communications and Networking, MeditCom 2024 Madrid, ES
C. Masouros, "*Sustainable and Multifunctional 6G Networks and Beyond: What Signal Processing C Do*"

Μαι' 24 IEEE Radar Conference 2024 – Denver, US
C. Masouros, M. Ritchie, "*Multi-Function RF Systems for Radar and Communications: Signal Processing, Prototyping and Experiments*"

Απρ' 24 IEEE Wireless Communications and Networking Conference, WCNC 2024 – Dubai, UAE
C. Masouros, Z. Wei, *"Security, Privacy and Anonymity in Emerging Applications in 6G and Beyond Physical Layer Perspective"*

Ιουν' 23 IEEE Vehicular Technology Conference, VTC 2023 - Florence, IT
C. Masouros, "*Signals and Waveforms for Sustainable Multifunctional 6G Networks and Beyond*"

Ιουν' 23 IEEE BalcanCom 2023 - Istanbul, TU
C. Masouros, "*Sustainable and Multifunctional Wireless Networks for 6G and Beyond*"

Ιουν' 23 IEEE International Conference on Communications, ICC 2023 - Rome, IT
F. Liu, **C. Masouros,** Y. Eldar *"Interplay between Sensing and Communications: Fundamental Limits, Signal Processing, and Prototyping"*

Ιουν' 23 IEEE International Conference on Communications, ICC 2023 - Rome, IT
D. Slock, T. Ratnarajah, C. Papadias, **C. Masouros,** "*Spectrum Sharing and Coexistence towards Integrated Sensing and Communications*"

Δεκ' 22 IEEE Global Communications Conference, GLOBECOM 2022 - Rio De Janeiro, BR
F. Liu, **C. Masouros**, Y. Eldar "*Interplay between Sensing and Communications: Fundamental Limits, Signal Processing, and Prototyping*"

Μαι' 22 IEEE International Conference on Communications, ICC 2022 - South Korea, KO
F. Liu, **C. Masouros**, A. Zhang, "*The Multifunctional Network of 6G and Beyond: Fundamentals of Integrating Communications and Sensing*"

Δεκ' 21 IEEE Global Communications Conference, GLOBECOM 2021 - Madrid, ES
F. Liu, **C. Masouros,** "*Integrated Sensing and Communication (ISAC) for 6G: From Theory to Applications*"

Σεπ' 21 IEEE International Workshop On Signal Processing Advances In Wireless Communications, SPAWC 2021 - Lucca, IT
F. Liu, **C. Masouros,** "*Integrated Sensing and Communication (ISAC) for 6G*"

Ιουν' 21 IEEE International Conference on Communications, ICC 2021 - Montreal, CA
C. Masouros, A. Li, L. Swindlehurst "*Interference Exploitation through Symbol Level Precoding: Energy Efficient Transmission for 6G and Beyond*"

Σεπ' 20 IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC 2020 - London, UK
F. Liu, **C. Masouros,** "*Joint Radar-Communication Transmission for 5G and Beyond – Applications, State-of-the-art and the Road Ahead*"

ΚΕΝΤΡΙΚΟΣ ΟΜΙΛΗΤΗΣ (KEYNOTE TALKS)

Jan 26 IEEE Symposium on Joint Communications and Sensing (JC&S) 2026 — Ponte Di Legno, IT
"*Signalling, Network-level Design and Security for ISAC*"

Nov 25 VINNOVA Wireless Infrastructure Technology Center Day 2025 — Gothenburg, SW
"*Integrated Sensing and Communications on the Road to 6G*"

Oct 25 IEEE Radar Conference 2025 — Krakow, PL
"*Integrated Sensing and Communication: New Opportunities come with New Challenges*"

Sep 25 IEEE EUSIPCO 2025 – WS on Learning for Sensing and Communications in Multi-Agent Networks — Palermo, IT
"*Coordinated and Learning Based Approaches for Network-level ISAC*"

Jul 25 IEEE MeditCom 2025 — Nice, FR
"*Sustainable Multi-Access and Multi-Functional Wireless Networks*"

May 25 IEEE WiOpt 2025 – WS on Integrated Sensing and Communications — Linkoping, SE
"*Security Challenges and Opportunities for ISAC*"

Mar 25 IEEE National Conference on Communications (NCC) 2025 Delhi, IN
"*Signaling, Networking and Security for Integrated Sensing and Communications*"

Nov 24 IEEE International Conference on Signal, Information and Data Processing (ICSIDP) 2024 Zhuhai, CN
"*Integrated Sensing and Communication for Sustainable and Multifunctional Networks*"

Sep 24 Global Summit and Expo on Artificial Intelligence and Robotics Dubai, UAE
"*Wireless Networks beyond Communications for industrial applications"*

Jul 24 IEEE International Conference on SEquences and Their Applications SETA 2024 Colchester, UK
"*Sustainable and Multifunctional Wireless Networks*"

Oct 23 EAI CollaborateCom 2023 Corfu, GR
"*Collaboration of Functions in Wireless Networks: Communication meets Sensing*"

Jun 23 IEEE VTC 2023 Florence, IT
"*Integrated Sensing and Communications: It was Meant to Be!*"

Mar 23 IEEE WCNC 2023 – 5th Workshop on Integrated Sensing (Radar) and Communications: The New Frontier Glasgow, UK
"*Integrated Sensing and Communications: Security Challenges and Opportunities"*

May 22 IEEE ICC 2022 – Workshop on Integrated Sensing and Communications Seoul, KO
"*The Multi-functional Wireless Network of 6G and Beyond: New Signalling, Synergies and Trade-offs"*

Apr 22 IEEE WCNC 2022 – Workshop on Integrated Sensing and Communications Austin, US
"Towards Dual-Functional Sensing and Communication Networks: Opportunities, Challenges and Trade-offs"

Mar 22 IEEE Symposium on Joint Communications and Sensing (JC&S) 2022 Innsbruck, AU
"Integrated Sensing and Communications: Signalling, Applications and Trade-offs"

Nov 21 Dstl's Operating in the Future Electromagnetic Environment (OFEME) Symposium London, UK
"*Integrating Sensing and Communications to Address the Electromagnetic Spectrum Congestion"*

ΠΡΟΣΚΕΚΛΗΜΕΝΑ ΣΕΜΙΝΑΡΙΑ ***Sep '06 – July '07, Feb – May '11***

Ιαν 24-Δεκ 25 **IEEE ComSoc Distinguished Lecturer**, class 2024-2025

Νοε 25 Fall School on 6G Technologies 2025 INRIA Center at University of Rennes Rennes, FR
Invited Talk *"Integrated Sensing and Communications: Link-Level, Network-Level Design and Security"*

Νοε 25 IEEE ComSoc ETI-SIG Workshop London, UK
Invited Talk *"Integrated Sensing and Communications: From the Ground to the Sky"*

Οκτ 25 Beihang University – IEEE ComSoc Distinguished Lecture Tour Beijing, CN
Invited Talk *"Sustainability in Wireless Networks Through Resource Reuse"*

Οκτ 25 Beijing University of Posts and Telecommunications – IEEE ComSoc Distinguished Lecture Tour Beijing, CN
Invited Talk *"Harnessing Interference and Reusing Hardware for Sustainable Wireless Networks"*

Οκτ 25 Peking University – IEEE ComSoc Distinguished Lecture Tour Beijing, CN
Invited Talk *"Sustainable Wireless Networks: What the PHY Layer Can Do"*

Οκτ 25 ETSI ISAC ISG Istanbul, TU
Invited Talk *"ISAC on the Road to 6G: Signaling, Network-Level design and Security"*

Οκτ 25 Xi'An Jiaotong University – IEEE ComSoc Distinguished Lecture Tour Xi'An, CN
Invited Talk *"Network-level Distributed Integrated Sensing and Communications"*

Σεπ 25 COST CA20120 - INTERACT Training School on Decision Making Systems Leiria, PT
Invited Talk *"Integrated Sensing and Communications: Signalling, Network Design and Security"*

Σεπ 25 Huawei Future Wireless Networks Workshop Stockholm, SE
Invited Talk *"Integrated Sensing and Communications: From Link-Level Design to Distributed Coordination"*

Ιουλ 25 The 2025 International Conference on Continuous Optimization (ICCOPT 2025) Los Angeles, US
Invited Talk *"Optimizations and Signaling for Sustainable and Multifunctional Wireless Networks"*

Ιουλ 25 The SPAWC 2025 Surrey, UK
Invited Talk *"Signal Processing for Sustainable Multi-Access and Multi-Functional Wireless Networks"*

Ιουλ 25 Korea University International Workshop on 6G Seoul, KO
Invited Talk *"Security Challenges and Opportunities for Integrated Sensing and Communications"*

Ιουλ 25 Universidad Carlos III – IEEE ComSoc Distinguished Lecture Tour Madrid, ES
Invited Talk *"Integrating Sensing and Communications? Not until it is Secure to do so"*

Ιουλ 25 6G/AI Summer School 2025 – IEEE ComSoc Distinguished Lecture Tour Cuenca, ES
Invited Talk *"Sustainable Multi-Access and Multi-Functional Wireless Networks"*

Ιουν 25 ISLANDS Summer School 2025 – IEEE ComSoc Distinguished Lecture Tour Cassino, IT
Invited Talk *"Sustainable Networks for 6G and Beyond: What Signal Processing Can Do"*

Ιουν 25 IEEE ICGT Student Branch InnoWave 2025 event – IEEE ComSoc Virtual Distinguished Lecture online
Invited Talk *"Integrated Sensing and Communications"*

Ιουν 25 IEEE ICWOC 2025 Chendu, CN
Invited Talk *"From Link-level to Network-level Distributed ISAC"*

Μαι 25 KoRaTo School 2025 online
Invited Talk *"Integrated Sensing and Communications: Signaling, Network-Level Design and Security"*

Μαι 25 Beijing University of Posts and Telecommunications – IEEE ComSoc Virtual Distinguished Lecture online
Invited Talk *"Physical Layer Technologies for Sustainable Wireless Networks"*

Νοε 24 IEEE Workshop on Signal Processing for Multi-functional and Intelligent Wireless Systems London, UK
Invited Talk *"Physical Layer Technologies for Sustainable and Multi-functional Wireless Networks"*

Νοε 24 SUSTech Research Lab – IEEE ComSoc Distinguished Lecture Tour Shenzhen, CN
Invited Talk *"Integrated Sensing and Communication: From Link-Level to Network-Level Design"*

Νοε 24 Chinese University of Hong Kong – IEEE ComSoc Distinguished Lecture Tour Shenzhen, CN
Invited Talk *"Integrated Sensing and Communication: New Opportunities come with New Challenges"*

Νοε 24 Huawei Headquarters Lab Shanghai, CN
Invited Talk *"Sustainable and Multifunctional Wireless Networks"*

Σεπ 24 Workshop on Mathematics for Innovation in Information and Communication Technology Hakata City, JP
Invited Talk *"Integrated Sensing and Communications for Sustainable and Multifunctional Networks"*

Μαι 24 TUB Focused Workshop on ISAC Berlin, DE
Invited Talk *"PHY Layer Approaches to ISAC Security Challenges"*

Απρ 24 Global 6G Conference Nanjin, CN
Invited Talk *"Is ISAC Secure? New Security Vulnerabilities and Solutions"*

Απρ 24 WWRF HUDDLE 2024 Workshop in Integrated Sensing and Communications Berlin, DE
Invited Talk *"Communications and Radar systems: from Co-existence to Joint Transmission"*

Μαρ 24 Huawei Munich Wireless Summit Munich, DE
Invited Talk *"Integrated Sensing and Communications: New Privacy Problems and Solutions"*

Φεβ 24 Imperial College London London, UK
Invited Talk *"Integrated Sensing and Communications: Signals, Prototyping and Security"*

Δεκ 23 IEEE ANTS 2023: Industrial Panel on The role of THz wireless and Integrated Sensing and Communications in future Perceptive 6G networks Rajasthan, IN
Invited Talk *"Integrated Sensing and Communications: Vision, Evolution and the Road Ahead"*

Νοε 23 IEEE Emerging Technology Initiative on NGMA workshop London, UK
Invited Talk *"Multi-Access Technologies for Sustainability and Multifunctionality"*

Οκτ 23 University of Surrey – 6G Clicks Workshop Surrey, UK
Invited Talk *"Integrating Sensing and Communications? Not until it is Secure to do so"*

Σεπ 23 Huawei Strategy & Technology Workshop 2023 Munich, DE
Invited Talk *"Sustainability and Multifunctionality in Wireless Networks"*

Αυγ 23 China Institute of Communications – Workshop on AI/ML in 5G Online
Προσκεκλημένο σεμινάριο *"Sustainability and Multifunctionality in Wireless Networks: How Machine Learning Can Help"*

Ιουλ 23 Workshop on Non-Terrestrial Networks Online
Προσκεκλημένο σεμινάριο *"Sustainable Global Connectivity and the Role of NTNs: Lessons from EU Project PAINLESS"*

Ιουν 23 IEEE SPS Webinar Online
Προσκεκλημένο σεμινάριο *"Recent Advances in Integrated Sensing and Communications: Fundamental Limits, Signal Processing, and Prototyping"*

Ιουν 23 ICC 2023 Industrial Panel "6G Integrated Sensing and Communication, ISAC - From Theory To Practice" Rome, IT
Προσκεκλημένο σεμινάριο *"Integrating Sensing and Communications? Not until it is Secure to do so"*

Ιουν 23 ICC 2023 Technical Panel "Non-Terrestrial Networks for Global Sustainable Connectivity" Rome, IT
Προσκεκλημένο σεμινάριο *"Net Zero Emissions Wireless Networks"*

Μαι 23 The ITU AI for Good Forum – AI/ML in 5G Seminar Series Online

Προσκεκλημένο σεμινάριο *"Sustainable and Multifunctional Wireless Networks: The Role of ML"*

Μαι 23 Πανεπιστήμιο Πελοποννήσου Πάτρα, ΕΛ
Προσκεκλημένο σεμινάριο *"Wireless Networks for 6G and Beyond: More Than Just Communications"*

Μαρ 23 Huawei Workshop on Future Wireless Communication Technologies and their Challenges Munich, DE
Προσκεκλημένο σεμινάριο *"Integrated Sensing and Communications: Signalling, Applications and Trade-offs"*

Φεβ 23 The IET London, UK
Προσκεκλημένο σεμινάριο *"Wireless Networks for 6G and Beyond: More Than Just Communications"*

Φεβ 23 Centre of Excellence on Next Generation Communication and Networking (CNGCN) - Dept. of ECE at LNMIIT, Jaipur, India Online
Προσκεκλημένο σεμινάριο *"Integrated Sensing and Communications: Toward Dual-Functional Wireless Networks for 6G and Beyond"*

Νοε 22 Huawei High Frequency Technologies Workshop 2022 Milan, IT
Προσκεκλημένο σεμινάριο *"Securing the Integrated Sensing-Communication Network"*

Νοε 22 Webinar series of IEEE ComSoc Special Interest group on Rate Splitting Multiple Access Online
Προσκεκλημένο σεμινάριο "*Rate Splitting Multiple Access: Security, Practicality and Emerging Applications"*

Νοε 22 NYU Abu Dhabi IEEE 6G Summit Abu Dhabi, UAE
Προσκεκλημένο σεμινάριο "*Securing the Integrated Sensing-Communication Network"*

Νοε 22 NYU Abu Dhabi IEEE 6G Training School Abu Dhabi, UAE
Προσκεκλημένο σεμινάριο "*The Multi-functional Wireless Network of 6G and Beyond: Signalling, Function Synergies and Trade-offs"*

Οκτ 22 ISAC half-day workshop in conjunction with the IET/IEEE Radar conference 2022 Edinburgh, UK
Προσκεκλημένο σεμινάριο "*Securing the Integrated Sensing-Communication Network"*

Σεπ 22 Huawei Strategy & Technology Workshop 2022 Online
Προσκεκλημένο σεμινάριο *Securing the Integrated Sensing-Communication Network"*

Σεπ 22 EuMW workshop "Integrated Sensing and Communication (ISAC) in 6G" Milan, IT
Προσκεκλημένο σεμινάριο "*The Multi-functional Wireless Network of 6G and Beyond: New Signalling, Synergies and Trade-offs"*

Σεπ 22 Electromagnetic Systems Special Interest Group (EMSIG) annual workshop London, UK
Προσκεκλημένο σεμινάριο "*The Integration of Sensing and Communications: Decongesting the Spectrum, and Beyond"*

Ιουλ 22 International workshop on Signal and Information Intelligent Learning and Processing (SIILP) Online
Προσκεκλημένο σεμινάριο "*The Integration of Sensing and Communications: It was Meant to Be!*"

Ιουλ 22 2022 IEEE International Conference on Signal Processing and Communication (SPCOM), Indian Institute of Science (IISc), Bangalore, IN
Προσκεκλημένο σεμινάριο "*Integrated Sensing and Communications: Signalling, Applications and Trade-offs"*,

Ιουν 22 Signal Processing Society seminar on the Young Author Best Paper Award 2022 Online
Προσκεκλημένο σεμινάριο "*Toward Dual-functional Radar-Communication Systems: Optimal Waveform Design"*,

Μαι' 22 PAINLESS Ph.D. school on "Next generation networks" Αθήνα, ΕΛ
Προσκεκλημένο σεμινάριο "*The Integration of Sensing and Communications: It was Meant to Be!*"

Απρ' 22 DigiCosme Ph.D. school "Emerging and Future Communication Networks: Technologies, Architectures, and Tools" Paris, FR
Προσκεκλημένο σεμινάριο "*Integrated Sensing and Communications for Future Wireless Networks*"

Απρ' 22 European Microwave Week 2021, 5G&Beyond Forum London, UK
Προσκεκλημένο σεμινάριο "*Integrating Communications, Sensing and Intelligence for 6G and Beyond*"

Φεβ' 22 Xi'an Jiaotong University Virtual
Προσκεκλημένο σεμινάριο "*Integrating Communications, Sensing and Intelligence for 6G and Beyond*"

Ιαν' 22 IEEE Emerging Technology Initiative on Integrated Sensing and Communications Virtual
Προσκεκλημένο σεμινάριο "*Wireless Networks Beyond Just Communications: Integrating Communications, Sensing and Security*"

Ιαν 22 University of Munich workshop ``Integrated sensing and communication: information theoretic limits and signal processing techniques" Virtual
Προσκεκλημένο σεμινάριο "*Joint signaling design for Integrated Sensing and Communications"*

Ιαν 22 Alan Turing Institute workshop on Machine Learning for Communications Virtual
Προσκεκλημένο σεμινάριο "*Learning-based design for the physical layer of wireless communication systems"*

Δεκ 21 IEEE Globecom 2021 Industry Panel on "5G and beyond - The Perspective of European Research Projects" Madrid, ES
Προσκεκλημένο σεμινάριο "*energy-autonomous Portable Access points for INfrastructure-LESS networks"*

Οκτ 21 MediaTek industrial tutorial Virtual
Προσκεκλημένο σεμινάριο "*6G technologies for Communications, Sensing and Intelligence*"

Σεπ 21 The ITU AI for Good Forum / Challenge on AI and Machine Learning in 5G Virtual
Προσκεκλημένο σεμινάριο "*Learning to communicate (LeanCom): Deep learning based solutions for the physical layer of communications*"

Σεπ 21 Huawei's workshop "Future of Wireless" 2021 Virtual
Προσκεκλημένο σεμινάριο "*Integrated Sensing and Communications: Towards a Multi-Functional Wireless Network*"

Μαι 21 UK Department for Digital, Culture, Media & Sport (DCMS) / Spectrum Policy Workshop "6G: Technology Enablers for Spectrum & Energy Efficient Wireless Access" Virtual
Προσκεκλημένο σεμινάριο "*Learning to Communicate*"

Νοε' 20 UDRC Themed Meeting on Signal Processing for the Electromagnetic Environment Imperial College London, UK

Προσκεκλημένο σεμινάριο στο UDRC Consortium, entitled "*Dual Functional Transmission for Radar and Communications"*

Φεβ 19 IDEALondon Themed event open to the public "5G, How To Make The Next-Gen Network Work For You" London, UK

Προσκεκλημένο σεμινάριο στο κοινό, entitled "*Connectivity for 5G Networks and Beyond"*

Νοε' 18 QUB-CommNet2 Workshop: Research Advances in RF through mmWave Radio Communications Technologies Belfast, UK

Προσκεκλημένο σεμινάριο στο εργαστήριο QUB-CommNet, με τίτλο «*Large scale antenna systems made practical: advanced signal processing for compact deployments»*

Οκτ' 18 CSIIS CONSORTIUM ΕΤΗΣΙΟ ΣΥΝΕΔΡΙΟ Μπρίστολ, HB

Προσκεκλημένο σεμινάριο στην κοινοπραξία CSIIS, με τίτλο «*Communications and Radar Transmission: Beyond Coexistence"*

Μαρ' 18 IRACON COST action – Instituto de Telecomunicações and Universidade da Beira Interior Lisbon, PT

Προσκεκλημένο σεμινάριο στη σχολή κατάρτισης δράσης «IRACON» COST, με τίτλο «*Interference exploitation and applications to hybrid analogue-digital precoding"*

Οκτ' 17 Πανεπιστήμιο Queen Mary Λονδίνο, HB

Προσκεκλημένο σεμινάριο στην Ερευνητική Ομάδα Επικοινωνιών, με τίτλο " *Exploiting Wireless Interference with Symbol-Level Optimization-Based Precoding""*

Σεπ' 17 WIRELESS-5G Καινοτόμο Δίκτυο Κατάρτισης - Κέντρο Εθνικό de la Recherche Scientifique Παρίσι, FR

Προσκεκλημένο σεμινάριο στο καινοτόμο εκπαιδευτικό δίκτυο Marie Curie της ΕΕ «Wireless5G», με τίτλο «*Interference awareness & exploitation for multi-user communications"*

Απρ' 17 Technische Universitat Darmstadt Darmstadt, DE

Προσκεκλημένο σεμινάριο στην Ερευνητική Ομάδα Συστημάτων Επικοινωνίας, με τίτλο «*Exploiting Wireless Interference with Symbol-Level Optimization-Based Precoding""*

Μάιος' 15 Πανεπιστήμιο του Εδιμβούργου Εδιμβούργο, HB

Προσκεκλημένο σεμινάριο στην ερευνητική ομάδα IDCOM, με τίτλο " *Downlink Precoding Designs and Optimisation of Constructive Interference"*

Μαρ' 14 Πανεπιστήμιο του Λουξεμβούργου Luxemburg, LU

Προσκεκλημένο σεμινάριο στην Ομάδα Δορυφορικής Έρευνας, με τίτλο «*Exploiting Wireless Interference with Linear and Non-Linear Precoding""*

Μαρ' 13 NOKIA Bell Labs Δουβλίνο, IE

Προσκεκλημένο σεμινάριο στις ερευνητικές ομάδες RF, μικρών κυττάρων και δικτύων αισθητήρων, με τίτλο «*Energy Efficient Downlink Transmission By Interference Exploitation* "

Οκτ '11 Queen's University Belfast Μπέλφαστ, UK

Προσκεκλημένο σεμινάριο στην Ερευνητική Ομάδα Υψηλής Συχνότητας, με τίτλο " *Linear Precoding for MIMO Systems and Interference Exploitation "*, που προορίζονται για διδακτορικούς φοιτητές και RAs

Απρ '10 Πανεπιστήμιο του Μάντσεστερ, Τμήμα Ηλεκτρικής & Ηλεκτρονικής Eng. Μάντσεστερ, HB

Προσκεκλημένο σεμινάριο στο IEEE UK Student Branch με τίτλο " *Acoustic Underwater Communications and Positioning in Confined and Cluttered Environments* ", που προορίζονται για MSc και νωρίς διδακτορικό φοιτητές

Μάιος '09 Πανεπιστήμιο του Μάντσεστερ, Τμήμα Ηλεκτρικής & Ηλεκτρονικής Eng. Μάντσεστερ, HB

Προσκεκλημένο σεμινάριο στο IEEE UK Student Branch, με τίτλο " *Linear Precoding and Interference Exploitation in Wireless Communications Systems* ", που προορίζονται για MSc και τους πρώτους διδακτορικούς φοιτητές

ΒΟΗΘΟΣ ΔΙΔΑΚΤΙΚΟΥ ΕΡΓΟΥ Sep '06 – July '07, Feb – May '11

Φεβ '11 Queen's University Belfast Belfast, UK

- Διεξαγωγή φροντιστηριακών διαλέξεων για το μάθημα 1ου έτους ***Electrical Circuits I**** για τα τμήματα Χημικών Μηχανικών και Μηχανολόγων Μηχανικών
- Επίλυση και επεξήγηση φροντιστηριακών ασκπήσεων για ακροατήριο 30-40 φοιτητών

Φεβ '07 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

- Βοηθός ομάδων 3-5 προπτυχιακών φοιτητών σε εργαστηριακές ασκήσεις για το εργαστήριο ***Communication Principles***
- Βαθμολόγηση των αναφορών των φοιτητών, σχετικά με τις εργαστηριακές ασκήσεις

Νοε '06 University of Manchester, Dept. of Electrical & Electronic Eng. Manchester, UK

- Βοηθός ομάδων 3-5 προπτυχιακών φοιτητών σε εργαστηριακές ασκήσεις για το εργαστήριο ***Digital Communications***
- Βαθμολόγηση των αναφορών των φοιτητών, σχετικά με τις εργαστηριακές ασκήσεις

ΕΠΙΒΛΕΨΗ ΕΡΕΥΝΗΤΩΝ Σεπ '06 – Σήμερα *Παρούσα Ομάδα: 5 Μεταδιδακτορικοί, 5 Διδακτορικοί*

Επίβλεψη Μεταδιδακτορικών Ερευνητών

Feb '26 – Σήμερα	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Hui Chen, στο πλαίσιο του έργου MSCA-IF SMALL
Feb '26 – Σήμερα	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Yashvanth Lakshmi, στο πλαίσιο του έργου ICON
Mar '25 – Σήμερα	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Neeraj Pandey, στο πλαίσιο του έργου SafeRoute-6G
May '24 – Σήμερα	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Iman Valiulahi, στο πλαίσιο του έργου 6GMUSICAL
Jan '24 – Dec '25	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Kawon Han, στο πλαίσιο του έργου MSCA-IF ConSenT
Jul '23 – Aug' 25	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Kaitao Meng, στο πλαίσιο του έργου MSCA-IF NetISAC
Sep '22 – Μαι '24	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Nithin Babu, στο πλαίσιο του έργου EPSRC LeanCom
Dec '21 – Σήμερα	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Murat Temiz, στο πλαίσιο του έργου DSTL LPI-DFRC
Ιαν '20 – Νοε 21	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Aryan Kaushik, στο πλαίσιο του έργου EPSRC-UDRC SD-EW
Δεκ '19 – Απρ 22	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Jianjun Zhang, στο πλαίσιο του έργου EPSRC LeanCom
Νοε '19 – Απρ 22	*Επιβλέπων της Μεταδιδακτορικού Ερευνητή* Xiaoyan Hu, στο πλαίσιο του έργου EPSRC LeanCom
Νοε '18 – Δεκ '20	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Fan Liu, στο πλαίσιο του έργου MC-IF COM-RAD
Απρ '18 – Ιουν '22	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Abdelhamid Salem, στο πλαίσιο του έργου EPSRC CI-PHY
Απρ '18 – Απρ '21	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Zhongxiang Wei, στο πλαίσιο του έργου EPSRC CI-PHY
Ιαν '18 - Αυγ '19	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Tongyang Xu, στο πλαίσιο των έργων EPSRC-IAA ESPAR και AIforSatCom

Ιουν '16 - Μάιος '18	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Mohammad Ruhul Khandaker, στο πλαίσιο του έργου EPSRC LSAS-SP - τώρα επίκουρος καθηγητής με το πανεπιστήμιο Heriot Watt, UK
Απρ' 15 – Ιουν '16	*Επιβλέπων του Μεταδιδακτορικού Ερευνητή* Ka Lung Law, στο πλαίσιο του έργου EPSRC LSAS-SP - τώρα με SenseTime Shang-Hai, Κίνα

Επίβλεψη PhD –MSc

Oct 24 - Σήμερα	*Επιβλέπων Διδακτορικού* για Borui Du
Sep 24 - Σήμερα	*Επιβλέπων Διδακτορικού* για Alexandra Chatzicharistou, στο πλαίσιο του έργου EU MSCA ISLANDS
Nov 23 - Σήμερα	*Επιβλέπων Διδακτορικού* για Mohan Kong
Sep 23 - Σήμερα	*Επιβλέπων Διδακτορικού* για Jiaming Hu
Jun' 23 - Σήμερα	*Επιβλέπων Διδακτορικού* για Jiang Lai
Nov' 22 – Oct' 23	*Επιβλέπων Διδακτορικού επισκέπτη* για Jiaqi Zou
Σεπ' 19 – Απρ 23	*Επιβλέπων Διδακτορικού* για Iman Valliulahi, στο πλαίσιο του έργου MSCA-ITN PAINLESS
Ιούλ 19 - Σήμερα	*Επιβλέπων Διδακτορικού* για Xiaoye Jing, στο πλαίσιο του έργου MSCA-ITN PAINLESS
Σεπ' 18 – Απρ 23	*Επιβλέπων Διδακτορικού* για Nanchi Su
Ιούνιος' 18 – Σεπ 22	*Επιβλέπων Διδακτορικού* για τον Mohammad Abdullahi
Απρίλ 17 - Δεκ 21	*Επιβλέπων Διδακτορικού* για τον Jun Qian
Ιαν 16 – Ιούλ 19	*Επιβλέπων Διδακτορικού* για τον Δρ Mahmood Kabir
Ιαν 18 – Ιουν' 19	*Επιβλέπων Διδακτορικού* για τον Jingcong Sun, τώρα με τη Huawei Technologies Shang-Hai
Σεπ 14 – Μαρ' 18	*Επιβλέπων Διδακτορικού* για Δρ Ang Li, τώρα Καθηγητής στο Πανεπιστήμιο Xi'an, Κίνα
Οκτ' 16 – Απρ' 18	*Επιβλέπων Διδακτορικού* για τον Δρ Fan Liu (επισκέπτης διδακτορικός φοιτητής)
Φεβ 13 – Ιαν' 17	*Επιβλέπων Διδακτορικού* για Δρ Pierluigi Amadori, τώρα με το Imperial College London, UK
Ιαν 13 – Ιούν 16	*Επιβλέπων Διδακτορικού* για το Δρ Adrian Garcia, τώρα με τα Nokia Bell Labs της Nokia, Δουβλίνο, Ιρλανδία
Φεβ 17 – Μαι 17	*Επιβλέπων Διδακτορικού* για την Έλενα Αλέξι (επίσκεψη ασκούμενου έρευνας), τώρα με ofcom
Ιαν 13 – Απρ 17	*Δεύτερος διδακτορικός επιβλέπων* για Tongyang Xu, Jure Sokolic, Ijeoma Anarado
Ιαν 13 – Σήμερα	*Επίβλεψη MSc*: 27 MSc έργα μέχρι σήμερα (3 εξ' αυτών έλαβαν το Βραβείο Κοσμήτορα UCL το 2013, 2016 και 2017)

PhD - MSc Καθοδήγηση

Sep'06 - Δεκ' 12 Παράλληλα με την έρευνά μου, καθοδηγούσα στενά:

- *6 διδακτορικούς φοιτητές* (Dr Morteza Razawi, Dr Haichuan Zhou, Dr. Faheem Khan, Dr. George Spyridakis, Dr. Ahmed El Kalagy, Dr. Antonis Phasouliotis) για την έρευνα, τη βιβλιογραφική τους ανασκόπηση και τον συνολικό ερευνητικό σχεδιασμό καθ' όλη τη διάρκεια της εργασίας τους,
- *5 φοιτητές MSc* (κα Shalini Bolouk, ο κ. Mahmood Obidalla, ο κ. Jonathan Serugunda, ο κ. Gaspard Teguia, ο κ. Παντελής Αγαθαντζής) για τις διατριβές τους, στα ασύρματα συστήματα επικοινωνίας.

ΕΞΕΤΑΣΗ ΔΙΔΑΚΤΟΡΙΚΩΝ	***Sep '13 – Παρόν***
Εσωτερικός εξεταστής:	Dr. Colin Horne,
UCL - 10 viva εξετάσεις	Dr. Hedaia Ghannam,
	Dr. Ahmed Wasfi Mohammed,
	Dr. Khaled Abdulrahman O Aljaloud

	Dr. Meng-Yang Chen, Dr. Raoul Guiazon Dr. Jover Segura, Dr. Mohammad Anam, Dr. Santosh Kawade, Dr. Yu Chen
Εξωτερικός εξεταστής: 24 viva εξετάσεις	Queen Mary University London (Dr. Ruikang Zhong) Imperial College London (Dr. Longfei Yin) King's College London (Dr. Yuanjian Li) Queen's University Belfast (Dr. Jonathan Browning) Tempere University (Dr. Carlos Baquero Barneto) IIT Delhi (Dr. Kamal Biswas) University of Luxembourg (Dr. Abderrahmane Mayouche) King's College London (Dr. Ghizlane Mountaser), National University of Sciences and Technology, Pakistan (Dr. Faisal Akram), University of Sydney, Australia (Dr. Deyou Zhang) National University of Sciences and Technology, Pakistan (Dr. M Haroon Siddiui), University of Surrey (Dr. Chathura Jayawardena) Technical University Darmstadt (Dr. Ganapati Hedge) University of Bristol (Dr. Paul Harris), King's College London (Dr. Xinruo Zhang), Victoria University of Wellington, New Zealand (Dr. Harsh Tataria), University of Bristol (Dr. Siming Zhang), King's College London (Dr. Vahid Towhidlou), Universitat Politecnica de Catalunya, Spain (Dr. Konstantinos Ntontin), University of Edinburgh (Dr. Athanasios Stavridis), University of Manchester (Dr. Tarla Abadi), University of Edinburgh (Dr. Xiping Wu), Queen Mary University (Dr. Bo Zhong), University of Edinburgh (Dr. Abdelhamid Younis)

ΕΞΩΤΕΡΙΚΟΣ ΕΞΕΤΑΣΤΗΣ ΠΡΟΓΡΑΜΜΑΤΩΝ

Νοε 2018- Σήμερα	Εξωτερικός εξεταστής προγραμμάτων MSc επικοινωνιών	Πανεπιστήμιο του Μπρίστολ, HB

ΕΡΕΥΝΗΤΙΚΕΣ ΕΠΙΧΟΡΗΓΗΣΕΙΣ ΚΑΙ ΒΡΑΒΕΙΑ

Ιαν '26	***EU Horizon Europe 6G SNS-JU Grant*** *with WINGS ICT Solutions, U. Piraeus, IMST GMBH, U. Cyprus, Orange Romania, Nokia, IMEC, KTH, Massive Beams GmbH, AKRONIC, IT Aveiro, Keysight entitled "QUEST-6G: Integrating Quantum AI and Reconfigurable Intelligent Systems in 6G Networks"* ***- €7.4m (€573k to UCL)***	European Union, 6G-SNS
Ιαν '24	***EU Horizon Europe Celtic-Next Grant*** *with HITEC Luxembourg, VTT Technical Research Centre of Finland Ltd, Finnish Meteorological Institute, Destia, Snower, Rel-palvelu, Mattersoft, Wedge Networks Inc, Micro Engineering Tech Inc. (METI), Türk Telekom, Ericsson TR, Actuate Inovasyon , GTech, Geodata Messtechnik GmbH, INCERT, ETRI, KATECH, KUNSAN, Satellite*	European Union,

	Applications Catapult ltd, LiveWire Digital , Bidaidea, "Road safety infrastructure and services evolution and enhancements towards 6G [SAFEROUTE-6G]" ***- €9.7m (€100k to UCL)***	
Οκτ '23	***EU Horizon Europe 6G SNS-JU Grant*** *with IT Aveiro, Sodira, IMEC, Ericsson, Fraunhoffer, Oulu University, eBos, Orange Bulgaria, Menhir Photonics, Waseda University, entitled* ***"****Multiband Wireless and Optical Signalling for Integrated Communications, Sensing and Localisation [6G-MUSICAL]"* ***- €4m (€600k to UCL)***	European Union, 6G-SNS
Μαρ '23	***EU MSCA-DN Grant*** *with CNIT, Chalmers U. Tampere U., American College of Greece, Bosch, Nokia, WaveUp, and RadChat, "Integrated Sensing and communications for future vehicuLAr environments – a Network of Doctoral Students [ISLANDS]"* ***- €2.7m (€308k to UCL)***	European Union, MCSA
Φεβ '23	***Marie Curie Fellowship*** *with Kawon Han entitled "Connected Sensing Techniques: Cooperative Radar Networks Using Joint Radar and Communication Waveforms (ConSenT)" -* ***€220k***	European Union, MCSA
Φεβ '23	***Marie Curie Fellowship*** *with Kaitao Meng and ACG entitled "Design and performance analysis of network-level ISAC: More than Integration (NetISAC)" -* ***€236k***	European Union, MCSA
Αυγ '22	***Knowledge Transfer Partnership*** *with Plextek* ***- £246k***	Innovate UK
Αυγ '22	***DSTL Grant*** *with U. Edinburgh, U. Bristol, Queens U. Belfast, U. Sheffield, Herriot Watt, entitled* ***"****Next generation information networks"* ***- £8m***	Defense Science and Technology Laboratory (DSTL), UK
Απρ '22	***EPSRC Standard Research Grant*** *QMUL, U. Durham, BT, Filtronic, NEC, Plextek, QinetiQ, Thales, Sinowave entitled "Transmission Channels Measurements and Communication System Design for Future mm Wave Communications [mmWave TRACCS]"* ***- £1.8m***	Engineering and Physical Sciences Research Council (EPSRC), UK
Ιουν '21	***DASA Emerging Innovations Grant*** *with QinetiQ entitled* ***"****Design and Testing of Low Probability Of Intercept (LPI) Waveforms For Joint Radar And Communications"* ***- £98k***	Defense and Security Accelerator (DASA), UK
Φεβ '21	***Cities Partnership Grant*** *with KTH entitled "Integrated Sensing and Communications for Perceptive Smart Cities"* ***- £5k***	UCL Global Engagement Office, UK
Μαρ '20	***EPSRC Capital Equipment Grant*** *with XTERA, Nokia, KDDI research, Huawei, Lumentum Technology, BT, NEC, Cable Labs, Mitsubishi Electric, Keysight Technologies, Microsoft, Viavi Solutions, Socionext, Micram Microelectronic, Aston U., U. Cambridge, King's College London, U. Southampton, U. Surrey, entitled "Advanced signal generation/detection system for ultra-wideband communication networks"* ***- £1m***	Engineering and Physical Sciences Research Council (EPSRC), UK
Οκτ 2020	***EPSRC D2U Επιχορήγηση προ-εμπορευματοποίησης*** *με QinetiQ, HAIT, ACG entitled "Testing and Refinement of Dual Communications and Radar Waveforms in Commercially Relevant Environments [DCRW]"* ***- £97k***	Engineering and Physical Sciences Research Council (EPSRC), UK
Φεβ 2020	***Επιχορήγηση βιομηχανικής έρευνας*** *από τη Huawei China με τίτλο* ***"*** *Enabling Joint Sensing and Communication for MmWave Cellular: Hardware-Constrained Designs" -* ***£60k***	Huawei, Κίνα
Αυγ 2019	***Επιχορήγηση βιομηχανικής έρευνας*** *από τη Huawei China με τίτλο* ***"*** *MU-MIMO enhancement by Constructive Interference Exploitation Precoding" -* ***£190k***	Huawei, Κίνα
Ιούν 2019	***Επιχορήγηση βιομηχανικής έρευνας*** *από τη NEC Ιαπωνία με τίτλο «Evaluation and analysis of beamforming and spectrally efficient techniques for point-to-point microwave and mm-wave radio" -* ***£ 41k***	NEC Corporation, Ιαπωνία
Μάι 2019	***Επιχορήγηση έρευνας*** EPSRC IAA *με, Satellite Catapult και Eutelsat με τον τίτλο «Artificial Intelligence for Satellite Communications Interference» -* ***£30k***	Engineering and Physical Sciences Research Council (EPSRC), HB
Μάρ 2019	***EPSRC Standard Research Grant*** *με, Huawei, NEC, U. Duke, Digital Catapult, CommNet2 με τίτλο* ***"*** *Learning to Communicate: Deep Learning based solutions for the Physical Layer of Machine Type Communications [LeanCom]"* ***- £ 860k***	Engineering and Physical Sciences Research Council (EPSRC), HB

Νοε 2018	***ΕΠΙΧΟΡΉΓΗΣΗ EPSRC UDRC3*** με το αυτοκρατορικό κολλέγιο Λονδίνο, Θαλής, IBM, Αμερικανικός στρατός, Fraunhofer, Ηπα Κάνσας με τον τίτλο «“Signal Sensing, Design and Delivery for Electronic» - ***£1εκατ***	Engineering and Physical Sciences Research Council (EPSRC), HB
Ιούν 2018	***Επιχορήγηση EU MCSA-ITN*** *με Nokia Bell Labs, Reseiwe, Lyra Electronics, Orion Technologies, RIO Systems, U. Manchester, Supelec, Athens Information Technology, Aalborg University, University of Cyprus, με τίτλο " energy-autonomous Portable Access points for INfrastructure-LESS networks [PAINLESS]" -* ***€4.2εκατ.***	Ευρωπαϊκή Ένωση, MCSA
Ιούν 2018	***Υποτροφία Συμβουλίου Κίνα (CSC) Studentship*** με τίτλο " Key Technologies of Massive MIMO Based Cognitive Radio Networks.," Διδακτρα και μισθό της Μις Nanchi Hu, Ανατεθην Επιβλέπων μετά την επιτυχή αξιολόγηση της ερευνητικής πρότασης - ***£ 104k***.	Συμβούλιο Υποτροφιών Κίνας (CSC), Κίνα
Ιαν 2018	***Marie Curie Υποτροφία*** *με Fan Liu με τίτλο " Combining MIMO Radar with MU-MIMO Communications: More than Coexistence"* ***- £ 160k***	Ευρωπαϊκή Ένωση, MCSA
Ιαν 2018	***EPSRC D2U Επιχορήγηση προ-εμπορευματοποίησης*** *με QinetiQ, Cobham wireless και AIT με τίτλο «Development and testing of a pre-commercialisation prototype of an Electronically Steerable Parasitic Array Radiator (ESPAR) transceiver"* ***- £100k***	Engineering and Physical Sciences Research Council (EPSRC), HB
Ιούλ 2017	***EPSRC Standard Research Grant*** με *U. Luxemburg, Εθνικά Όργανα, BT, Huawei, QinetiQ, με τίτλο " Interference Exploitation for physical layer security in 5G networks [CI-PHY]" –* ***£1.1m***	Engineering and Physical Sciences Research Council (EPSRC), HB
Ιούλ 2017	***NSFC Επιχορήγηση*** *με το Ινστιτούτο Τεχνολογίας του Πεκίνου με τίτλο " Research on Key Techniques of M-ary Chirp Modulation Based on Riemannian Manifold "* ***- £110k***	NSFC, Κίνα
Φεβ 2016	***Υποτροφίας Διακεκριμένου Επισκέπτη του Royal Academy of Engineering*** *με τον καθηγητή Γ. Παπαδιά, με τίτλο «Merging Capabilities in Analog-Digital Transmission of Next Generation Wireless Networks [MANGO]»* ***- £6k***	Royal Academy of Engineering, HB
Ιαν 2016	***Υποτροφία Petroleum Technology Development Fund***, Νιγηρία, με τίτλο " Energy Efficient Full Duplex Transmission for 5G and Beyond," Διδακτρα και μισθό του Mahmood Kabir, Ανατεθην Επιβλέπων μετά την επιτυχή αξιολόγηση της ερευνητικής πρότασης - ***£ 93k***.	Ταμείο Ανάπτυξης Τεχνολογίας Πετρελαίου (PTDF), Νιγηρία
Μάι 2015	***Υποτροφία Συμβουλίου Κίνας (CSC) Studentship*** με τίτλο " Large Scale Antenna Systems with Hardware-Informed Precoding Designs," Διδακτρα και μισθό του Ang Li, Ανατεθην Επιβλέπων μετά την επιτυχή αξιολόγηση της ερευνητικής πρότασης - ***£ 104k***.	Συμβούλιο Υποτροφιών Κίνας (CSC), Κίνα
Ιουν 2014	***EPSRC ερευνητική επιχορήγηση*** με *Heriot Watt U. με τον τίτλο «Large Scale Antenna Systems Made Practical: Advanced Signal Processing for Compact Deployments (LSAS-SP)» -* ***£550k***	Engineering and Physical Sciences Research Council (EPSRC), HB
Αύγ 2011	**Ερευνητική υποτροφία Royal Academy of Engineering** με τον τίτλο «Interference as a source of green signal energy in wireless communications» ***- £550k***	Royal Academy of Engineering, HB
Αυγ 2011	*Ερευνητική Επίσκεψη και Χρηματοδότηση συνεργασίας από το EURECOM, έμμεση συνεισφορά* ***- £20k***	EURECOM, FR
Αυγ 2011	*Έρευνητική Επίσκεψη και Συνεργασία Χρηματοδότηση από AIT, έμμεση συνεισφορά* ***- £ 20k***	Athens Information Technology, GR
Μάι 2010	**Διεθνής Επιχορήγηση** για την παρακολούθηση IEEE PIMRC, Σεπτέμβριος 2010 ~ ***£ 1k***	Royal Academy of Engineering, HB

Φεβ 2010	**Διεθνής Επιχορήγηση** για την παρακολούθηση IEEE WCNC, Απρίλιος 2010 ~ ***£ 1k***	Royal Academy of Engineering, HB
Μάι 2009	**IET** 2009 D H Thomas Ταξίδια Bursary ~ ***£ 1.5k***	Ινστιτούτο Μηχανικών και Τεχνολογίας, HB
Απρ 2009	**Διεθνής επιχορήγηση** για την παρακολούθηση IEEE ICC, Ιούνιος 2009 ~ ***£ 1k***	Royal Academy of Engineering, HB
Νοε 2008	**Διεθνής επιχορήγηση** για την παρακολούθηση IEEE GlobeCom, Νοέμβριος 2008 ~ ***£ 1k***	Πανεπιστήμιο του Μάντσεστερ
Μάι 2008	**Διεθνής επιχορήγηση** για την παρακολούθηση IEEE ICC, Ιούνιος 2008 ~ ***£1k***	Royal Academy of Engineering, HB
Σεπ 2010	**Διεθνής επιχορήγηση** για την παρουσία IEEE GlobeCom, Νοεμβρίου 2007 ~ ***£1k***	Royal Academy of Engineering, HB

ΚΡΙΤΗΣ ΔΙΕΘΝΩΝ ΕΡΕΥΝΗΤΙΚΩΝ ΠΡΟΤΑΣΕΩΝ

Νοε 2022	*Κριτης προτασεων για* Fellowship proposals to MSCA COFUND project ONISILOS
Αυγ 2022	*Κριτης προτασεων για* National Science Center, Poland
Ιουν 2022	*Κριτης προτασεων για* Dutch Research Council (NWO), Netherlands
Φεβ 2019	*Κριτης προτασεων για* Deutsche Forschungsgemeinschaft (DFG), Γερμανία
Ιούλ 2018	*Κριτης προτασεων για* Luxembourg National Fund (FNR), Λουξεμβούργο
Μαρ 2017	*Κριτης προτασεων για* Royal Academy of Engineering (UK-China grants), HB
Νοε 2016	*Κριτης προτασεων για* Natural Sciences and Engineering Research Council of Canada (NSERC), Καναδάς
Οκτ 2016 - Σήμερα	*Κριτης προτασεων για* Engineering and Physical Sciences Research Council (EPSRC), HB

EDITORSHIPS

Ιαν '25 – Σήμερα	***Editor*** for Nature Portfolio Journal (NPJ) on Wireless Technologies
Σεπ '24 – Σήμερα	***Area Editor*** for IEEE Transactions on Wireless Communications, area of "Multiple Antenna Communications (MAC)"
Δεκ '23- Δεκ '23	***Guest Editor*** for IEEE IoT Journal call "Special Issue on Current Research Trends and Open Challenges for Industrial Internet-of-Things"
Φεβ '22- Φεβ '23	***Lead Guest Editor*** for IEEE WCM call "Integrated Sensing and Communication for 6G"
Δεκ '20 – Φεβ '22	***Guest Editor*** for IEEE JSAC call "Integrated Sensing and Communication"
Ιουν '20 – Σεπ '21	***Lead Guest Editor*** for IEEE JSTSP call "Joint Communication and Radar Sensing for Emerging Applications"
Μαρ '20 – Σήμερα	***Editor-at-Large*** *για* IEEE Open Journal of the Communications Society
Ιαν '20 – Σεπ 21	***Guest Editor*** *για* IEEE Open Journal of the Communications Society έκδοση "Aerial wireless networks: drones for communications and communications for drones"
Νοε '19 – Σήμερα	***Editor*** *για* IEEE Open Journal of Signal Processing
Νοε '18 – Μια '24	***Editor*** *για* IEEE Transactions on Wireless Communications
Ιαν '19 – Δεκ '19	***Guest Editor*** for EURASIP JWCN έκδοση "Cognitive UAVs in Critical Missions: IoT-based Applications, Protocols and Deployments"
Φεβ '18 – Φεβ '21	***Elected Member*** *για* EURASIP SAT Signal Processing for Communications
Σεπ' 17 – Μαι '18	***Lead Guest Editor*** *για* IEEE JSTSP έκδοση "Hybrid Analog / Digital Signal Processing for Hardware-Efficient Large Scale Antenna Arrays"
Μαρ' 17 – Μαρ' 22	***Editor*** *για* IEEE Transactions on Communications

Ιαν' 16 – Σεπ '16	***Guest Editor*** *για* IEEE JSTSP έκδοση "Exploiting Interference towards Energy Efficient and Secure Wireless Communications"
Ιαν' 15 – Ιαν '19	***Associate Editor*** *για* IEEE Communications Letters

ΕΠΙΚΕΦΑΛΗΣ ΔΙΕΘΝΩΝ ΕΡΕΥΝΗΤΙΚΩΝ ΕΝΕΡΓΕΙΩΝ

Nov '25 - Present	***Vice Chair*** of the ETSI pre-standardization Industry Specification Group (ISG) on Integrated Sensing and Communications (ISAC)
Oct '25 - Present	***International Scientific Advisory Board Member*** for the Wireless Technology Centre (WiTECH) Centre, Chalmers University
Mar '25 - Present	***Scientific Committee Member*** for the Excellence Center at Linköping – Lund in Information Technology (ELLIIT)
Oct '23 - Present	***Founding Member*** του ETSI pre-standardization Industry Specification Group (ISG) on Integrated Sensing and Communications (ISAC)
Jun '22 – Present	***Chair*** του IEEE Green Communications & Computing Technical Committee, Special Interest Group on Green ISAC
Mar '21 – Present	***Founding Member***, και ***Vice-Chair*** του IEEE Communication Society Emerging Technology Initiative (ETI) on Integrated Sensing and Communications (ISAC)
Jan '21 – Present	***Vice-Chair*** του Signal Processing Society Technical Working Group (TWG), Integrated Sensing and Communication
Jul '20 – Present	***Vice-Chair*** του IEEE Wireless Communications Technical Committee, Special Interest Group on Integrated sensing and communications (ISAC)
Jun '20 – May '22	***Chair*** του IEEE Green Communications & Computing Technical Committee, Special Interest Group on Energy Harvesting Communication Networks
Feb '18 – Dec '20	***Elected Member*** του EURASIP TAC Signal Processing for Communications

ΠΑΡΟΥΣΙΑ ΣΕ ΕΠΙΤΡΟΠΕΣ ΟΡΓΑΝΩΣΗΣ ΣΥΝΕΔΡΙΟΥ ΚΑΙ ΠΑΝΕΛ ΣΥΝΕΔΡΙΟΥ

45. IEEE ICC 2026: Workshop on Wireless Foundation Models for AI-native 6G and Beyond – **Organiser and Co-Chair**
44. IEEE ICC 2026: Workshop on Building Trust in 6G: Architectures, Algorithms, and Testbeds – **Organiser and Co-Chair**
43. IEEE SPS ISAC TWG Webinar Series – 2025-2026 - **Series Organizer**
42. IEEE CSNDSP 2026: Special Session on Integrated Sensing and Communication for 6G – **Organiser and Co-Chair**
41. IEEE GlobeCom 2025: 13th Workshop on Integrated Sensing and Communications for Low-Altitude Intelligence – **Workshop Organiser and Co-Chair**
40. IEEE PIMRC 2025: Workshop on Integrated Sensing, AI, and Communication (ISAAC) – **Organiser and Co-Chair**
39. IEEE ISVLSI 2025: Workshop on Emerging System Design Topics in New Generation Wireless Communication Technologies – **Organiser and Co-Chair**
38. IEEE EUCNC 2025: Panel on Integrated Sensing and Communications initiative on the European research framework – **Organiser**
37. IEEE INFOCOM 2025: Next-generation Wireless – **Invited Panelist**
36. Cambridge 6G Symposium 2025: Panel on 6G Enabling Technologies Research Advances – **Invited Panelist**
35. IEEE WCNC 2025: Panel on Integrated Sensing and Communications on the Road to 6G – **Organiser and Co-Chair**
34. IEEE WCNC 2025: Workshop on Integrated Sensing-Communication-Computation for Intelligence of Everything – **Organiser and Co-Chair**
33. IEEE ICC 2025: Workshop on Integrated Sensing and Communications for Low-Altitude Intelligent Network – **Organiser and Co-Chair**
32. IEEE JC&S 2025: Workshop on Multi-Disciplinary Approaches to Joint Communication and Sensing in 6G – **Organiser and Co-Chair**

31. IEEE WiOpt 2024: Workshop on Integrated Sensing and Communications (ISAC) – **Workshop Organiser and Co-Chair**
30. IEEE ICC 2024, Selected Areas in Communications (SAC) on Integrated Sensing and Communication Track – **TPC Chair**
29. IEEE MobiSys 2023: The 2nd ACM MobiSys Workshop on Integrated Sensing and Communications for Metaverse – **Workshop Organiser and Co-Chair**
28. IEEE WiOpt 2023: International Workshop on Integrated Sensing and Communications – **Workshop Organiser and Co-Chair**
27. IEEE ICASSP 2023: International Workshop Towards Net-Zero Energy Communication Networks – **Workshop Organizer and Chair**
26. IEEE ICC 2023: Industrial Panel on Non-Terrestrial Networks for Global Sustainable Connectivity – **Invited Panelist**
25. IEEE ICC 2023: Industrial Panel on Integrated Sensing and Communication – **Invited Panelist**
24. IEEE ICC 2023: 5th Workshop on Integrated Sensing and Communication – **Workshop Organizer and Chair**
23. IEEE VTC Fall 2022: International Workshop Towards Net-Zero Energy Communication Networks – **Workshop Organizer and Chair**
22. IEEE MobiCom 2022: International Workshop on Integrated Sensing and Communications – **Workshop Organiser and Co-Chair**
21. IEEE GlobeCom 2022: International Workshop on Workshop on Sustainable Future Ultra-dense Networks (FutureUDNs) – **Workshop Organiser and Co-Chair**
20. IEEE VTC-Spring 2022: International Workshop on Integrated Sensing and Communications – **Steering Committee Member**
19. One World Signal Processing Webinar Mini Series on Model-based AI – Spring 2022 **- Series Organizer and Co-Chair**
18. IEEE SAM 2022: Special Session: Integrated Sensing and Communications – **Special Session Organizer and Chair**
17. IEEE EUSIPCO 2022: Special Session: Integrated Sensing and Communications – **Special Session Organizer and Chair**
16. IEEE ICASSP 2022: Special Session: Security- and Privacy-Preserving Signal Processing Techniques for Emerging Applications – **Special Session Organizer and Chair**
15. IEEE Globecom 2021 Industry Panel on "5G and beyond - The Perspective of European Research Projects" – **Panel Member**
14. One World Signal Processing Webinar Series – **Fall 2021 Series Organizer and Co-Chair**
13. IEEE PIMRC 2020: International Workshop on UAV Communications for 5G and Beyond (UAV 5G & Beyond) – **Workshop Organizer and Co-Chair**
12. IEEE PIMRC 2020: PHY & Fundamentals Track – **TPC Co-Chair**
11. IEEE ICC 2020: International Workshop on Communication and Radar Spectrum Sharing: From Coexistence to Co-Design – **Workshop Organizer and Co-Chair**
10. IEEE ICASSP 2020: Special Session: Hardware-Efficient Large-Scale Antenna Arrays: The Stage for Symbol-Level Precoding – **Special Session Organizer and Chair**
9. EU MSCA-ITN PAINLESS 1st Summer School 2019 – **Organizer and Chair**
8. IEEE ICASSP 2019: Special Session: Communications and Radar Transmission: Coexistence and Beyond – **Special Session Organizer and Chair**
7. IEEE VTS PT Chapter/COST-IRACON Joint 2018 Winter School on Beyond 5G Networks: Panel on "Trends on B5G research" – **Panel Member**
6. IEEE Globecom 2017: International Workshop on Large-Scale Antenna Systems in Licensed and Unlicensed Bands – **Steering Committee Member**
5. IEEE EUSIPCO 2017: Special Session: Hybrid Analog / Digital Signal Processing for Hardware-Efficient Large Scale Antenna Arrays – **Special Session Organizer and Chair**
4. IEEE ICT 2016: Special Session: Exploiting interference towards energy efficient and secure wireless communications – **Special Session Organizer and Chair**

3. IEEE 17th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2016) – **Publicity Chair**
2. IEEE 15th International Conference on Computer and Information Technology (CIT-2015) - **Vice Program Chair** (http://cse.stfx.ca/~cit2015/committee.html)
1. University of Manchester Postgraduate Research Conference PGR 2009 – **Organizing Committee Member**

ΚΡΙΤΗΣ ΣΕ ΔΙΕΘΝΗ ΣΥΓΓΡΑΜΜΑΤΑ

Περιοδικά

- IEEE Trans. on Wireless Communications
- IEEE Trans. on Communications
- IEEE Trans. on Signal Processing
- IEEE Journal on Selected Areas of Communications
- IEEE Journal on Selected Topics in Signal Processing
- IEEE Trans. on Vehicular Technology
- IEEE Communications Letters
- IEEE Signal Processing Letters
- IEEE Wireless Communications Letters
- IET Journal on Communications
- EURASIP Journal on Wireless Communications and Networking
- European Transactions on Telecommunications
- Elsevier Computer Communications
- Wiley Wireless Communications and Mobile Computing

Συνέδρια

Τακτικός κριτής από το 2007, και μέλος της επιτροπής τεχνικού προγράμματος από το 2010 των

- IEEE Global Communications Conference (GlobeCom),
- IEEE International Conference on Communications (ICC),
- IEEE Wireless Communications and Networking Conference (WCNC),
- IEEE International Conference on Acoustics Speech and Signal processing (ICASSP),
- IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC),
- IEEE Vehicular Technology Conference (VTC)

ΜΕΛΟΣ ΣΕ ΕΠΑΓΓΕΛΜΑΤΙΚΟΥΣ ΟΡΓΑΝΙΣΜΟΥΣ

- Senior Member του IEEE Communications Society από το 2014 (Member since 2006)
- Senior Member του IEEE Signal Processing Society από το 2019
- Member του IET Communications Society από το 2006
- Member του EPSRC Associate College από το 2016
- Μέλος του Τεχνικού Επιμελητηρίου Ελλάδος (ΤΕΕ) από το 2004

ΛΙΣΤΑ ΔΗΜΟΣΙΕΥΣΕΩΝ

Βραβεία καλύτερης δημοσίευσης

6. F. Liu, Y. Liu, A. Li, **C. Masouros,** Y. Eldar, “Cramér-Rao Bound Optimization for Joint Radar-Communication Design”, IEEE Trans. Sig. Proc., vol. 70, pp. 240-253, 2022, doi: 10.1109/TSP.2021.3135692. ***The 2024 IEEE SPS Best Paper Award***
5. A. Zhang, F. Liu, **C. Masouros**, R. Heath, Z. Feng, L. Zheng, A. Petropulu, “An Overview of Signal Processing Techniques for Joint Communication and Radar Sensing”, IEEE Journal Selected Topics in Signal Processing., *vol. 15, no. 6, pp. 1295-1315, Nov. 2021* ***The 2024 IEEE SPS Donald G. Fink Overview Paper Award***
4. F. Liu, **C. Masouros,** H. Griffiths, A. Petropulu, L. Hanzo “Joint Radar and Communication Design: Applications, State-of-the-art, and the Road Ahead”, IEEE Trans Comms, ***EiC invited paper*** *vol. 68, no. 6, pp. 3834-3862, June 2020,* ***IEEE ComSoc Stephen O. Rice Prize***

3. F. Liu, L. Zhou, **C. Masouros**, A. Li, W. Luo, and A. Petropulu "Toward Dual-functional Radar-Communication Systems: Optimal Waveform Design" IEEE Transactions on Signal Processing, August 15, 2018, ***The 2021 IEEE SPS Young Author Best Paper Award***
2. A. Salem, **C. Masouros,** "Rate Splitting Approach Under PSK signaling Using Constructive Interference Precoding Technique", IEEE WCNC 2019, ***best paper award in Track 1: PHY and Fundamentals***
1. **C. Masouros** and G. Zheng, "Power Efficient Downlink Beamforming Optimization by Exploiting Interference", IEEE GlobeCom2015, ***best paper award in Signal Processing for Communications (SPC) symposium***

Βιβλία

1. F. Liu, **C. Masouros**, Y. Eldar, "Integrated Sensing and Communications", 2023 edition Springer

Κεφάλαια σε βιβλία

9. X. Hu, K. Wong, **C. Masouros,** S. Jin, "IRS-aided Mobile Edge Computing: From Optimization to Learning" published by the book "IRS Empowered 6G Wireless Network" edited by Qingqing Wu, Trung Q. Duong, Derrick Wing Kwan Ng, Robert Schober, and Rui Zhang, 2023 edition Wiley – ***Προσκεκλημένο έργο***
8. A. Salem, **C. Masouros,** "Security Challenges and Solutions for Rate Splitting Multiple Access" published in book "Physical Layer Security for 6G" edited by N. Pappas, P. Mohapatra, A. Chorti, and S. Tomasin, 2023 edition Wiley – ***Προσκεκλημένο έργο***
7. N. Su, F. Liu, **C. Masouros,** "Security and Privacy in ISAC Systems", published by book "Integrated Sensing and Communications", edited by Y. Eldar, C. Masouros, F. Liu, 2023 edition Springer
6. W. Yuan, Z. Du, X. Meng, F. Liu, and **C. Masouros** "Integrated Sensing and Communication for Vehicular Networks", published by book "Integrated Sensing and Communications", edited by Y. Eldar, C. Masouros, F. Liu, 2023 edition Springer
5. F. Dong, F. Liu, and **C. Masouros** "PHY Tradeoff and Resource Allocation for ISAC", published by book "Integrated Sensing and Communications", edited by Y. Eldar, C. Masouros, F. Liu, 2023 edition Springer
4. F. Liu, **C. Masouros**, "Communication and Radar systems: Spectral co-existence and beyond", published by the Cambridge Press book "Spectrum Sharing: The Next Frontier in Wireless Networks", Edited by: Constantinos Papadias, Tharm Ratnarajah, Dirk Slock, 2020 edition Wiley-IEEE Press – ***Προσκεκλημένο έργο***
3. **C. Masouros**, "Harvesting Signal Power from Constructive Interference in Multiuser Downlinks", published in the book "Wireless Energy Harvesting for Future Wireless Communications", Edited by: John Thompson, Symeon Chatzinotas, Salman Durrani, 2018 edition Springer – ***Προσκεκλημένο έργο***
2. S. Timotheou, G. Zheng, **C. Masouros**, and I. Krikidis "Exploiting Constructive Interference For Simultaneous Wireless Information And Power Transfer In Multiuser Downlink Systems", published in the book "Wireless Information and Power Transfer: Theory and Practice", Edited by: Trung Q. Duong, Caijun Zhong, and Robert Schober, 2019 edition John Wiley & Sons – ***Προσκεκλημένο έργο***
1. **C. Masouros** and A. Garcia, "Chapter 5: Large Scale Antenna Systems", published in the book "5G Wireless Technologies", Edited by: Angeliki Alexiou, 2017 edition the IET – ***Προσκεκλημένο έργο***

Συμβολή σε διεθνή Standards

1. **C. Masouros**, J. L. Hernando, "Data confidentiality for ISAC transmission with target eavesdropping", Use-case contribution to the ETSI pre-standardization Industry Specification Group (ISG) on Integrated Sensing and Communications (ISAC), Work Item 4 – Security Privacy and Trustworthy ISAC – ISC(25)000028r1
2. **C. Masouros**, J. L. Hernando, "Sensing security for ISAC transmission with Unauthorized Sensing", Use-case contribution to the ETSI pre-standardization Industry Specification Group (ISG) on Integrated Sensing and Communications (ISAC), Work Item 4 – Security Privacy and Trustworthy ISAC – ISC(24)000283

3. M. Heggo, **C. Masouros**, “RCS modelling roadmap from baseline to advanced approaches”, study item contribution to the ETSI pre-standardization Industry Specification Group (ISG) on Integrated Sensing and Communications (ISAC), Work Item 2 – Channel Modeling, Measurements and Evaluation Methodology

Πατέντες

5. M. Temiz, **C. Masouros**, “methods and apparatus for deceiving unauthorized sensing”, *filed (09/12/2025) PATENT APPLICATION NUMBER GB2521171.5*
4. J. Chen, **C. Masouros**, “Sensing security in integrated sensing and communication system”, *filed (08/07/2025) PATENT APPLICATION NUMBER GB2511028.9* - https://www.search-for-intellectual-property.service.gov.uk/GB2511028.9
3. K. Han, **C. Masouros**, “methods and apparatus for preventing unauthorized sensing”, *filed (16/01/2025) PATENT APPLICATION NUMBER GB2500617.2* - *https://www.search-for-intellectual-property.service.gov.uk/GB2500617.2*
2. A. Salem, **C. Masouros**, “methods and apparatus for transmitting and receiving data”, *granted PATENT APPLICATION NUMBER WO2022185050A1*
1. K. Tanabe, N. Zein, J. Qian, **C. Masouros**, “wireless communications apparatus and method”, *granted US11838092B2*

Περιοδικά

243 Y. Zhang, H. C. So, D. Niyato and C. Masouros, "Rotatable Antennas for Near-Field Integrated Sensing and Communication," in IEEE Transactions on Wireless Communications, vol. 25, pp. 10986-11001, 2026, doi: 10.1109/TWC.2026.3650918

242. K. Meng, K. Han, C. Masouros, L. Hanzo, "ISAC Network Planning: Sensing Coverage Analysis and 3-D BS Deployment Optimization," in IEEE Transactions on Wireless Communications, vol. 25, pp. 9330-9344, 2026, doi: 10.1109/TWC.2025.3648536

241. G. Wei, A. Li, C. Masouros and A. Salem, "Mutual Information Maximization for Symbol-Level Precoded MIMO Communication Systems," in IEEE Transactions on Communications, vol. 74, pp. 2434-2449, 2026, doi: 10.1109/TCOMM.2025.3647790

240. M. Osouli, A. Khonsari, S. Javadi, M. Robat Mili, C. Masouros and N. Al-Dhahir, "URLLC Service for Beyond Diagonal RIS-Enabled ISAC Systems: A Meta-PPO Algorithm," in IEEE Wireless Communications Letters, vol. 15, pp. 1558-1562, 2026, doi: 10.1109/LWC.2026.3653078

239. Z. Zhang, K. Wong, D. Moralez-Jimenez, H. Jiang, P. Ramirez-Espinosa, C. Chae, C. Masouros, “Finite-blocklength Fluid Antenna Systems With Spatial Block-Correlation Channel Model”, IEEE Wireless Comms. Letters., in press

238. Q. Peng, Q. Luo, Z. Chu, Z. Lin, M. Elkashlan, P. Xiao, G. Karagiannidis, C. Masouros, “Latency-Aware Resource Allocation for Integrated Communications, Computation, and Sensing in Cell-Free mMIMO Systems”, IEEE Trans. on Wireless Comms., vol. 25, pp. 11128-11142, 2026, doi: 10.1109/TWC.2026.3657950

237. M. Mirabella, P. Di Viesti, C. Masouros, G. M. Vitetta “Joint Range and Doppler Estimation Using Spectrally Efficient FDM”, IEEE Trans. Wireless Comms., vol. 25, pp. 11113-11127, 2026, doi: 10.1109/TWC.2026.3658942

236. Z. Zhang, K. Wong, J. Dang, Z. Zhang, C. Masouros, C. Chae, L. Lan “Integrated Sensing and Communications for Unsourced Random Access via Spectrum Sharing Compressive Sensing Approach with Massive MIMO Receiver”, IEEE Trans. Veh. Tech., in press

235. D. Zhang, Y. Cui, X. Cao, N. Su, F. Liu, X. Jing, J. A. Zhang, J. Xu, C. Masouros, D. Niyato, M. DiRenzo, “Integrated Sensing and Communications Over the Years: An Evolution Perspective”, IEEE Communications Surveys and Tutorials., in press

234. Y. Li, F. Liu, H. Xiong, Z. Wang, C. Masouros, “Sensing-Assisted Handover in NR-V2I Communications”, IEEE Trans on Mobile Computing., in press

233. Y. Li, Y. Zhang, C. Masouros, S. Pollin, F. Liu, “Rethinking Signaling Design for ISAC: From Pilot-Based to Payload-Based Sensing,” IEEE Communications Standards Magazine, https://arxiv.org/abs/2511.22703, in press

232. H. S. Rou, K. R. R. Ranasinghe, V. Savaux, G. T. F. de Abreu, D. González G., and C. Masouros, “Affine Frequency Division Multiplexing (AFDM) for 6G: Properties, Features, and Challenges,” IEEE Communications Standards Magazine, arXiv:2507.21704, in press. DOI: 10.48550/arXiv.2507.21704.

231. I. Valiulahi, C. Masouros, A. Petropulu, “ISAC Super-Resolution Receiver via Lifted Atomic Norm Minimization”, IEEE Trans Comms, in press

230. A. Ahmad, A. Girdher, C. Masouros, “ABLE: Attention-based Blind Learning for Universal CSI-Free Symbol Detection”, IEEE Wireless Comms. Let., vol. 15, pp. 830-834, 2026, doi: 10.1109/LWC.2025.3641820

229. Z. Wei, P. Wang, A. Petroulu, C. Masouros, S. Sun, “Physical Layer Anonymous Communications in Trustworthy 6G: Fundamentals, Recent Advances, and Future Trends," in IEEE Wireless Communications, vol. 32, no. 2, pp. 26-32, April 2025, doi: 10.1109/MWC.001.2400269.

228. K. Han, K. Meng, C. Masouros, “MIMO-OFDM Signaling Design for Noncoherent Distributed ISAC Systems” IEEE Trans Wireless Comm, vol. 25, pp. 7792-7808, 2026, doi: 10.1109/TWC.2025.3633615

227. Y. Wang, H. D. Tuan, Z. Sheng, C. Masouros, V. Poor, “Precoding Design for QoS in Integrated Multi-Stream Information Delivery and Multi-Target Estimation and Localization” IEEE Trans Wireless Comm, vol. 25, pp. 5670-5684, 2026

226. Z. Wei, P. Wang, Q. Shi, X. Zhu, C. Masouros, D. Wang, “Towards Structural Sparse Precoding: Dynamic Time, Frequency, Space, and Power Multistage Resource Programming”, IEEE IoT Journal, vol. 13, no. 1, pp. 377-391, 1 Jan.1, 2026

225. F. Jia, A. Li, X. Lian, Y. Li, C. Masouros, “Secure Precoding via Interference Exploitation in Integrated Sensign and Communication System”, IEEE Wireless Comms Let, vol. 15, pp. 425-429, 2026

224. B. Yang, X. Zhang, L. Hao, X. Fei, C. Masouros, “Covariance-Based Block Gibbs Sampling for Massive MIMO Grant-Free Random Access”, IEEE Trans Veh Tech, in press

223. M. Liu, P. Fu, C. Masouros, B. Clerckx, Y. H. Kim, A. Nallanathan, F. Wang, “Multiple Access Enabled Integrated Sensing and Communication with Imperfect CSI: Non-orthogonal vs. Rate Splitting”, IEEE Trans Wireless Com, vol. 25, pp. 8385-8400, 2026, doi: 10.1109/TWC.2025.3637571

222. A. Farhadi, A. Olfat, C. Masouros, “Joint Beamforming and Resource Allocation for STAR-IRS-Aided SCMA Using Meta Deep Reinfocement Learning” IEEE Trans Comms. in press doi: 10.1109/TWC.2025.3580347

221. Y. Wang, X. Hu, A. Li, C. Masouros, K. K. Wong, K. Yang, “ISAC Enhancement with Interference Exploitation: From A Uniform Viewpoint for Symbol Level and Block Level” IEEE Trans Veh Tech. in press

220. M. Choukali, S. Mirbolouk, H. Kalbkhani, M. Amirani, C. Masouros, “Graph Neural Network-Based Predictive UAV Displacement and Beamforming Design for Aerial ISAC-Enabled Vehicular Networks” IEEE Trans Wireless Comms. in press

219. K. Han, K. Meng, C. Masouros, “Sensing-Secure ISAC: Ambiguity Function Engineering for Impairing Unauthorized Sensing” IEEE Trans Wireless Comm, vol. 25, pp. 5386-5400, 2026

218. Q. Li, J. Ge, J. Li, M. Liu, C. Masouros, A. Nallanathan, “Constructive Non-Orthogonal Multiple Access: Outage Performance and Ergodic Rate”, IEEE Wireless Comms Letters, vol. 15, pp. 106-110, 2026

217. F. Liu, Y. F. Liu, Y. Cui, C. Masouros, X. Jiu, X. Han, S. Buzzi, Y. Eldar, S. Jin, “Sensing With Communication Signals: From Information Theory to Signal Processing” IEEE Journal Sel. Areas Comms. vol. 44, pp. 1-30, 2026

216. Y. Cui, Z. Wei, J. Zhang, X. Zhu, C. Masouros, A. Petropoulou, “Physical Layer Anonymous Precoding under CSI and Hardware-Imperfections: A KLD-based Approach”, IEEE Trans. Wireless Comms., vol. 25, pp. 6225-6239, 2026, doi: 10.1109/TWC.2025.3624112.

215. Z. Zhang, A. Bo, K. Wong, J. Dang, C. Masouros, Z. Zhang, C. Chae, “Coded Pattern Unsourced Random Access with Analyses on Sparse Pattern Demapper”, IEEE Trans. Wireless Comms., vol. 25, pp. 5306-5319, 2026

214. X. Tong, A. Li, L. Lei, X. Hu F. Dong, S. Chatzinotas, C. Masouros, “MU-MIMO Symbol-Level Precoding for QAM Constellations with Maximum Likelihood Receivers”, IEEE Transactions on Comms, vol. 73, no. 12, pp. 15098-15112, Dec. 2025, doi: 10.1109/TCOMM.2025.3616612

213. J. Wang, J. Fang, H. Li, C. Masouros, “CRB Optimization for Intelligent Reflecting Surface-Assisted NLOS Wireless Sensing”, IEEE Trans. Signal Processing, vol. 73, pp. 3994-4010, 2025, doi: 10.1109/TSP.2025.3609719

212. M. Wang, Z. Wei, C. Masouros, “Closed-Form Detection Error Rate Analysis in PHY-Anonymous MIMO MAC Channel”, IEEE Trans Veh. Tech., in press

211. Y. Wen, J. Yang, A. Li, X. Liao and C. Masouros, "Parallel Solution for Per-Antenna Power Constrained Symbol-Level MU-MISO Precoding," in IEEE Transactions on Communications, vol. 73, no. 8, pp. 6514-6528, Aug. 2025, doi: 10.1109/TCOMM.2025.3541106

210. J. Yang, A. Li, X. Liao, C. Masouros and A. Lee Swindlehurst, "Reconfigurable Intelligent Surfaces Enhanced Symbol Level Interference Exploitation Precoding," in IEEE Wireless Communications Letters, vol. 14, no. 7, pp. 2044-2048, July 2025, doi: 10.1109/LWC.2025.3561940

209. Z. Teng, J. An, C. Masouros, H. Li, L. Gan and D. Wing Kwan Ng, "Dynamic Precoding for Near-Field Secure Communications: Implementation and Performance Analysis," in IEEE IoT Journal, vol. 12, no. 15, pp. 29427-29442, 1 Aug.1, 2025, doi: 10.1109/JIOT.2025.3568827

208. Z. Zhang, K. -K. Wong, J. Dang, Z. Zhang, C. Masouros and C. -B. Chae, "On Fundamental Limits of Slow-Fluid Antenna Multiple Access for Unsourced Random Access," in IEEE Wireless Communications Letters, vol. 14, no. 11, pp. 3455-3459, Nov. 2025, doi: 10.1109/LWC.2025.3594112.

207. M. Temiz, Y. Zhang, Y. Fu, C. Zhang, C. Meng, O. Kaplan, Orha, C. Masouros, "Deep-Learning-Based Techniques for Integrated Sensing and Communication Systems: State-of-the-Art, Challenges, and Opportunities," in IEEE O. J. ComSoc, vol. 6, pp. 5940-5968, 2025, doi: 10.1109/OJCOMS.2025.3586560.

206. Y. Wang, X. Hu, A. Li, C. Masouros, K. K. Wong, K. Yang, “Interference Exploitation in ISAC Systems: Finite-Alphabet Precoding with Low Resolution DACs and PSs” IEEE Trans Wireless Comms. vol. 25, pp. 2264-2279, 2026, doi: 10.1109/TWC.2025.3595731

205. J. Chen, Y. Xiao, Z. Peng, J. Zhu, X. Lei, C. Masouros, K. K. Wong, “Hybrid Beamforming for RIS-Assisted Multiuser Fluid Antenna Systems” IEEE Trans Wireless Comms. vol. 25, pp. 2718-2732, 2026

204. F. Zhang, T. Mao, M. Li, M. Hua, J. Chen, C. Masouros, Z. Wang, “Near-Field ISAC for THz Wireless Systems” IEEE Network. vol. 39, no. 6, pp. 54-61, Nov. 2025, doi: 10.1109/MNET.2025.3598827

203. S. Li, F. Liu. Y. Xiong, W. Yuan, B. Bai, C. Masouros, G. Caire, “Faster-than-Nyquist Signaling is Good for Single-Carrier ISAC: An analytical Study” IEEE Trans Sig Proc. vol. 73, pp. 3203-3219, 2025, doi: 10.1109/TSP.2025.3592443

202. H. Yin, Y. Tang, A. Bemani, M. Kountouris, Y. Zhou, Y. Liu, G. Chen, K. Yang, F. Liu, C. Masouros, S. Li, G. Caire, P. Xiao, “Affine Frequency Division Multiplexing: Extending OFDM for Scenario-Flexibility and Resilience” IEEE Wireless Communications. vol. 32, no. 6, pp. 200-208, Dec. 2025

201. K. Han, K. Meng, X. Y. Wang, C. Masouros, “Network-Level ISAC Design: State of the Art, Challenges and Opportunities” IEEE Journal of Selected Topics in Electromagnetics, Antennas and Propagation, vol. 1, no. 1, pp. 65-83, Sept. 2025, doi: 10.1109/JSTEAP.2025.3603139. – EiC invited paper

200. F. Liu, Y. Xiong, S. Li, W. Yuan, C. Masouros, S. Jin, G. Caire, “Uncovering the Iceberg in the Sea: Fundamentals of Pulse Shaping and Modulation Design for Random ISAC Signals” IEEE Trans Sig Proc., vol. 73, pp. 2511-2526, 2025, doi: 10.1109/TSP.2025.3580596

199. K. Meng, K. Han, C. Masouros, A. Petropulu, L. Hanzo, “Network-Level ISAC: An Analytical Study of Antenna Topologies Ranging from Massive to Cell-Free MIMO” IEEE Trans Wireless Comms. vol. 24, no. 12, pp. 10003-10018, Dec. 2025, doi: 10.1109/TWC.2025.3576432

198. A. Doosti, C. Masouros, Z. Xu, “OTSM with Delay-Doppler Alignment Modulation Meets mmWave mMIMO ISCAP: Waveform Optimization by Deep Reinforcement Learning”, IEEE IoT Jour., vol. 12, no. 17, pp. 35799-35816, 1 Sept.1, 2025, doi: 10.1109/JIOT.2025.3582031

197. T. Le, I. Ku, X. Yang, C. Masouros, T. Le-Ngoc, "DFRC Systems Co-existing in Licensed Spectrum: Cognitive Beamforming Designs", IEEE Transactions on Cognitive Communications and Networking, vol. 12, pp. 1155-1168, 2026

196. Z. Du, F. Liu, Y. Li, W. Yuan, Y. Cui, Z. Zhang, C. Masouros, B. Ai, “Towards ISAC-Empowered Vehicular Networks for the Metaverse: Framework, Advances, and Opportunities”, IEEE Veh. Tech. Mag., vol. 32, no. 2, pp. 222-229, April 2025

195. J. Hu, K. Han, L. Jiang, K. Meng, C. Masouros, F. Liu, “Learning-Based Constellation Design for Uplink Bi-Static Integrated Sensing and Communication”, EEE Transactions on Vehicular Technology, vol. 74, no. 8, pp. 13219-13224, Aug. 2025, doi: 10.1109/TVT.2025.3554439

194. A. Farhadi, R. Hatami, M. Robatmili, C. Masouros, “A Meta-Learning Approach for Energy-Efficient Resource Allocation and Antenna Selection in STAR-BD-RIS Aided Wireless Networks” IEEE Wireless Comms. Letters vol. 14, no. 5, pp. 1421-1425, May 2025, doi: 10.1109/LWC.2025.3543780

193. C. Tsinos, A. Kaushik, A. Arora, C. Masouros, F. Liu, S. Chatzinotas, “Low Complexity Joint Radar-Communication Systems Design in the RF Domain” IEEE Trans. Green Comms. & Networking, vol. 9, no. 4, pp. 1678-1690, Dec. 2025, doi: 10.1109/TGCN.2025.3563394

192. Y. Zhang, T. Xu, C. Masouros, “Zero-Power Integrated Sensing and Communication in Smart Healthcare Environments”, IEEE Trans Cog Comm & Networks, vol. 11, no. 5, pp. 3079-3093, Oct. 2025, doi: 10.1109/TCCN.2025.3573413

191. M. Temiz, C. Masouros, “Unsupervised Learning-based Low-Complexity Integrated Sensing and Communication Precoder Design”, IEEE OJ ComSoc., vol. 6, pp. 3543-3554, 2025

190. Z. Teng, J. An, C. Masouros, D. K. W. Ng, L. Gan, “Dynamic Precoding for Near-Field Secure Communications: Implementations and Performance Analysis”, IEEE IoT Journal, vol. 12, no. 15, pp. 29427-29442, 1 Aug.1, 2025, doi: 10.1109/JIOT.2025.3568827

189. K. Meng, C. Masouros, A. Petropulu, L. Hanzo, “Cooperative ISAC Networks: Performance Analysis, Scaling Laws and Optimization” IEEE Trans Wireless Comms. vol. 24, no. 2, pp. 877-892, Feb. 2025

188. K. Meng, C. Masouros, K. K. Wong, A. Petropulu, L. Hanzo, “Integrated Sensing and Communication Meets Smart Propagation Engineering: Opportunities and Challenges” IEEE Networks Mag. vol. 39, no. 2, pp. 278-285, March 2025

187. Y. Wang, X. Hu, A. Li, C. Masouros, K. K. Wong, K. Yang, “Symbol-Scaling based Interference Exploitation in ISAC Systems: From Symbol Level to Block Level”, IEEE Trans Wireless Comms, vol. 24, no. 3, pp. 2451-2466, March 2025

186. I. Valiulahi, M. Alaaeldin, C. Masouros, E. Alsusa, “ISAC Receiver Design: Joint DoA and Data Estimation in the Presence of Incomplete Signal Observations”, IEEE Open Journal of the Vehicular Tech, vol. 6, pp. 846-852, 2025

185. J. Zhang, C. Masouros, F. Liu, Y. Huang, L. Swindlehurst, “Low-Complexity Joint Radar-Communication Beamforming: From Optimization to Deep Unfolding”, IEEE Journal Sel. Topics in Sig. Proc., vol. 19, no. 5, pp. 856-871, July 2025, doi: 10.1109/JSTSP.2024.3522787

184. N. Su, F. Liu, C. Masouros, G. Alexandropoulos, Y. Xiong, Q. Zhang, “Secure ISAC MIMO Systems: Exploiting Interference With Bayesian Cramer-Rao Bound Optimization”, EURASIP Journal on Wireless Communications and Networking., vol. 10, 2025

183. C. Xu, C. Masouros, S. Sugiura, P. Petropoulos, R. Maunder, L. L. Yang, H. Haas, L. Hanzo, “Integrated Positioning and Communications Relying on Wireless Optical OFDM”, IEEE Jour. Sel. Areas. Comms., vol. 43, no. 5, pp. 1721-1737, May 2025

182. Z. Wu, Y. Liu, K Chen, C. Masouros, “Quantized Constant-Envelope Signal Design for Massive MIMO DFRC Systems”, IEEE Jour. Sel. Areas Comms., vol. 43, no. 4, pp. 1056-1073, April 2025

181. Y. Wang, Y. Wen, A. Li, X. Hu, C. Masouros, “Block-Level Interference Exploitation Precoding for MU-MISO: An ADMM Approach”, IEEE Trans Comms, vol. 73, no. 5, pp. 3482-3496, May 2025

180. X.Y. Wang, H. Zhai. S, Yang, C. Masouros, A. Zhang, “Windowing Optimization for Fingerprint-Spectrum-Based Passive Sensing in Perceptive Mobile Networks”, IEEE Trans on Comms., vol. 73, no. 2, pp. 1367-1382, Feb. 2025

179. J. Zou, H. Xu, C. Wang, L. Xu, S. Sun, K. Meng, C. Masouros, K. Wong, “Shifting the ISAC Trade-off with Fluid Antenna Systems”, IEEE Comm. Let., vol. 13, no. 12, pp. 3479-3483, Dec. 2024

178. K. Meng, C. Masouros, F. Liu, “Network-Level Integrated Sensing and Communication: Interference Management and BS Coordination Using Stochastic Geometry” IEEE Trans. Wireless Comms. vol. 23, no. 12, pp. 19365-19381, Dec. 2024

177. K. Meng, C. Masouros, A. Petropulu, L. Hanzo, “Cooperative ISAC Networks: Opportunities and Challenges” IEEE Wireless Communications, vol. 32, no. 3, pp. 212-219, June 2025, doi: 10.1109/MWC.008.2400151

176. M. H. Tariq, C. Masouros, C. Papadias, “Energy Efficient Multi-Active / Multi-Passive Antenna Arrays for Portable Access Points”, MDPI Micromachines, vol 15, no. 11, 2024

175 N. Babu, A. Kosasih, C. Masouros, E. Bjornson, “Symbol-Level Precoding for Near-Field ISAC”, IEEE Comms Let., vol. 28, no. 9, pp. 2041-2045, Sept. 2024

174 J. Yang, A. Li, C. Masouros, L. Swindlehurst, “Block-Level MU-MISO Interference Exploitation Precoding: Optimal Structure and Explicit Duality”, IEEE IoT Jour, vol. 11, no. 21, pp. 35519-35535, 1 Nov.1, 2024

173 J. Hu, I. Valiulahi, C. Masouros, “ISAC Receiver Design: A Learning-based Two-stage Joint Data-and-Target Parameter Estimation”, IEEE Wireless Comms Letters, vol. 13, no. 8, pp. 2105-2109, Aug. 2024

172. K. Meng, Q. Wu, C. Masouros, W. Chen, D. Li, “Intelligent Surface Empowered Integrated Sensing and Communication: From Coexistence to Reciprocity” IEEE Wireless Comms Magazine. vol. 31, no. 5, pp. 84-91, October 2024

171. N. Babu, C. Masouros, C. Papadias, Y. Eldar, “Precoding for Multi-Cell ISAC: from Coordinated Beamforming to Coordinated Multipoint and Bi-Static Sensing”, IEEE Transactions on Wireless Comms, vol. 23, no. 10, pp. 14637-14651, Oct. 2024

170. J. Zou, C. Masouros, F. Liu, S. Sun, “Securing the Sensing Functionality in ISAC Networks: An Artificial Noise Design”, IEEE Trans. Veh. Tech., vol. 73, no. 11, pp. 17800-17805, Nov. 2024, doi: 10.1109/TVT.2024.3422036.

169. X. Jing, F. Liu, C. Masouros, Y. Zeng, “ISAC from the Sky: UAV Trajectory Design for Joint Communication and Target Localization”, IEEE Trans Wireless Comms., vol. 23, no. 10, pp. 12857-12872, Oct. 2024

168. J. Chen, J. Wang, Z. Wei, Y. Ren, C. Masouros, “Joint Autonomous Underwater Vehicle Trajectory and Energy Optimization for Underwater Covert Communications”, IEEE Trans. Comms., vol. 72, no. 11, pp. 7327-7341, Nov. 2024

167. L. Xiang, K. Xu, J. Hu, C. Masouros and K. Yang, "Robust NOMA-Assisted OTFS-ISAC Network Design With 3-D Motion Prediction Topology," in IEEE Internet of Things Journal, vol. 11, no. 9, pp. 15909-15918, 1 May1, 2024,

166. Y. Kloob, M. Al-Jarrah, E. Alsusa, C. Masouros, “Novel KLD-based Resource Allocation for Integrated Sensing and Communication”, IEEE Trans. Sig Proc. vol. 72, pp. 2292-2307, 2024

165. Y. Li, F. Liu, Z. Du, W. Yuan, Q. Shi, C. Masouros, “Frame Structure and Protocol Design for Sensing-Assisted NR-V2X Communications”, IEEE Trans on Mobile Computing., vol. 23, no. 12, pp. 11045-11060, Dec. 2024

164. Z. Liao, F. Liu, A. Li, C. Masouros, “Faster-Than-Nyquist Symbol-Level Precoding for Wideband Integrated Sensing and Communications”, IEEE Trans. Wireless Comms., vol. 23, no. 8, pp. 10445-10458, Aug. 2024

163. A. Salem, X. Tong, C. Masouros, A. Li, “NOMA Made Practical: Removing the Receive SIC Processing through Interference Exploitation” IEEE OJ ComSoc, vol. 5, pp. 2723-2734, 2024

162. J. Wang, A. Li, X. Liao, C. Masouros, “Low-Complexity SLP: An Inversion-Free, Parallelizable ADMM Approach”, IEEE Trans. Wireless Comms, vol. 23, no. 9, pp. 12424-12439, Sept. 2024

161. X.Y. Wang, S. Yang, J. Zhang, P. Zhang, C. Masouros, “Clutter Suppression, Time-Frequency Synchronization, and Sensing Parameter Association in Asynchronous Perceptive Vehicular Networks”, IEEE Jour. Sel Areas Comms., vol. 42, no. 10, pp. 2719-2736, Oct. 2024

160. Y. Qin, X. Liao, A. Li, C. Masouros, "Symbol-Level Precoding for PAPR Reduction in Multi-User MISO-OFDM Systems", IEEE Trans. Wireless Comms., vol. 23, no. 9, pp. 12484-12498, Sept. 2024

159. A. Salem, K. Meng, C. Masouros, F. Liu, D. Lopez Perez, “Rethinking Dense Cells for Integrated Sensing and Communications: A Stochastic Geometric View” IEEE Open Journal ComSoc vol. 5, pp. 2226-2239, 2024

158. C. Masouros, “Integrated Sensing and Communication: An Evolution of Cognitive Radio Creating a Revolution in Cognition”, EiC invited Newsletter article IEEE Transactions on Cognitive Communications and Networking, Dec 2024

157. A. Doosti, C. Masouros, X. Zhu, E. Basar, S. Coleri, H. Arslan, “Performance Analysis of OTSM under Hardware Impairments and Imperfect CSI”, IEEE Trans Veh Tech., vol. 73, no. 9, pp. 12991-13006, Sept. 2024

156. Y. Wen, H. Wang, A. Li, X. Liao, C. Masouros, “Low-Complexity Interference Exploitation MISO Precoding Under Per-Antenna Power Constraint”, IEEE Trans. Wireless Comms, vol. 23, no. 8, pp. 9943-9957, Aug. 2024

155. Y. Cui, Z. Wei, C. Masouros, X. Zhu, H. Tang, “On the Closed-Form Detection Error Rate Analysis in Physical Layer Anonymous Communications”, IEEE Trans Veh Tech., vol. 73, no. 8, pp. 12195-12200, Aug. 2024

154. J. Zhang, Y. Huang, C. Masouros, X. You, B. Ottersten, “Hybrid Data-Induced Kalman Filtering Approach and Application in Beam Prediction and Tracking”, IEEE Trans. Sig. Proc., vol. 72, pp. 1412-1426, 2024

153. A. Doosti, C. Masouros, E. Basar, H. Arslan, “Pairwise Sequency Index Modulation with OTSM for Green and Robust Single-Carrier Communications”, IEEE Wireless Comms Letters., vol. 13, no. 4, pp. 1083-1087, April 2024

152. G. Wei, A. Li, C. Masouros, “Exploiting Power Amplifier Nonlinearities through Symbol Level Interference Exploitation Precoding in the MU-MIMO Downlink”, IEEE Trans. Wireless Comms, vol. 23, no. 8, pp. 8432-8446, Aug. 2024

151. Z. Wei, C. Masouros, X. Zhu, P. Wang, A. Petropulu, “PHY Layer Anonymous Precoding: Sender Detection Performance and Diversity-Multiplexing Tradeoff”, IEEE Trans on Wireless Comms, vol. 23, no. 5, pp. 4531-4545, May 2024

150. J. Zou, S. Sun, C. Masouros, Y. Cui, Y. Liu, “Energy-Efficient Beamforming Design for Integrated Sensing and Communications Systems”, IEEE Trans. Comms, vol. 72, no. 6, pp. 3766-3782, June 2024.

149. R. Li, J. Sun, J. Xue, **C. Masouros**, “Scenario-Aware Learning Approaches to Adaptive Channel Estimation”, IEEE Transactions on Wireless Comms, vol. 72, no. 2, pp. 874-889, Feb. 2024

148. N. Su, F. Liu, **C. Masouros**, “Sensing-Assisted Eavesdropper Estimation: An ISAC Breakthrough in PHY Security”, IEEE Trans. Wireless Comms, vol. 23, no. 4, pp. 3162-3174, April 2024

147. L. Liu, **C. Masouros**, L. Swindlehurst, “Robust Symbol Level Precoding for Overlay Cognitive Radio Networks”, IEEE Trans. Wireless Comms, vol. 23, no. 2, pp. 1403-1415, Feb. 2024

146. J. Yang, A. Li, X. Liao, **C. Masouros**, “Speeding-up Symbol-Level Precoding Using Separable and Dual Optimizations”, IEEE Trans. Comms, *vol. 71, no. 12, pp. 7056-7071, Dec. 2023, doi: 10.1109/TCOMM.2023.3308149.*

145. J. Yang, A. Li, **C. Masouros**, "ADMM-SLPNet: A Model-Driven Deep Learning Framework for Symbol-Level Precoding", IEEE Trans. on Veh. Tech., *vol. 73, no. 1, pp. 1376-1381, Jan. 2024*

144. F. Liu, L. Zheng, Y. Cui, **C. Masouros**, A. Petropulu, H. Griffiths, Y. Eldar, “Seventy Years of Radar and Communications: The Road from Separation to Integration”, IEEE Sig. Proc. Mag, vol. 40, no. 5, pp. 106-121, July 2023

143. A. Mohammad, **C. Masouros**, I. Andreopoulos, “A Memory-Efficient Learning Framework for Symbol Level Precoding with Quantized NN Weights”, IEEE Open Journal ComSoc., *vol. 4, pp. 1334-1349, 2023, doi: 10.1109/OJCOMS.2023.3285790.*

142. A. Mohammad, **C. Masouros**, I. Andreopoulos, “An Unsupervised Deep Unfolding Framework for Robust Symbol Level Precoding”, IEEE Open Journal ComSoc., vol. 4, pp. 1075-1090, 2023, doi: 10.1109/OJCOMS.2023.3270455

141. M. Al-Jarrah, E. Alsusa, **C. Masouros**, "A Uniform Performance Framework for Integrated Sensing-Communications based on KL-Divergence", IEEE Trans. Wireless Comms, *vol. 22, no. 12, pp. 9390-9411, Dec. 2023, doi: 10.1109/TWC.2023.3270390.*

140. X. Meng, F. Liu, **C. Masouros**, W. Yuan, Q. Zhang, Z. Feng, "Vehicular Connectivity on Complex Trajectories: Roadway-Geometry Aware ISAC Beam-tracking", IEEE Trans Wireless Comms., *vol. 22, no. 11, pp. 7408-7423, Nov. 2023*

139. Y. Hu, Y. Liu, A. Kaushik, **C. Masouros** and J. Thompson , "Timely Data Collection for UAVs with a Deep Reinforcement Learning vol. 23, no. 11, pp. 12295-12308, 1 June1, 2023, doi: 10.1109/JSEN.2023.3265935

138. I. Valiulahi, A. Salem, **C. Masouros**, "Net-Zero Energy Dual-Functional Radar and Communication Systems", IEEE Trans. Green Comms. Networks, Special Issue "Integrated Sensing and Communications for Future Green Networks", *vol. 7, no. 1, pp. 356-369, March 2023*

137. J. Zhang, **C. Masouros,** Y. Huang, "Beam Training and Tracking with Limited Sampling Sets: Exploiting Environment Priors", IEEE Trans Comms., vol. 71, no. 5, pp. 3008-3023, May 2023, doi: 10.1109/TCOMM.2023.3239927.

136. M. Temiz, N. Peters, C. Horne, M. Ritchie, **C. Masouros**, "An Experimental Study of Radar-Centric Transmission for Integrated Sensing and Communications", IEEE Transactions on Microwave Theory and Techniques, *vol. 71, no. 7, pp. 3203-3216, July 2023, doi: 10.1109/TMTT.2023.3234309.*

135. J. Zhang, **C. Masouros,** L. Hanzo, "Joint Precoding and CSI Dimensionality Reduction: Efficient Training via Deep Unfolding", IEEE Trans Comms., *vol. 22, no. 12, pp. 9502-9516, Dec. 2023, doi: 10.1109/TWC.2023.3271521.*

134. A. Salem, **C. Masouros**, B. Clerckx, "Secure Rate Splitting Multiple Access: How Much of the Split Signal to Reveal?" IEEE Trans. Wireless Comms. *vol. 22, no. 6, pp. 4173-4187, June 2023, doi: 10.1109/TWC.2022.3223961.*

133. A. Li, C. Shen, X. Liao, **C. Masouros**, L. Swindlehurst, "Practical Interference Exploitation Precoding without Symbol-by-Symbol Optimization: A Block-Level Approach", IEEE Trans. Wireless Comms, vol. 22, no. 6, pp. 3982-3996, June 2023, doi: 10.1109/TWC.2022.3222780.

132. Z. Du, F. Liu, W. Yuan, **C. Masouros,** Z. Zhang, G. Caire, "Integrated Sensing and Communications for V2I Networks: Dynamic Predictive Beamforming for Extended Vehicle Targets", IEEE Trans. Wireless Comms., vol. 22, no. 6, pp. 3612-3627, June 2023, doi: 10.1109/TWC.2022.3219890.

131. I. Valiulahi, A. Salem, **C. Masouros**, "Resource Allocation Policies for Battery Constrained Energy Harvesting Communication Systems with Co-Channel Interference", IEEE Trans Comms*., vol. 70, no. 12, pp. 8342-8354, Dec. 2022, doi: 10.1109/TCOMM.2022.3215997.*

130. M. Bigdeli, H. Fathi, I. Valiulahi, **C. Masouros**, "Non-Coherent OFDM Transmission via Off-the-Grid Joint Channel and Data Estimation", IEEE Wireless Comms. Letters, vol. 12, no. 1, pp. 99-103, Jan. 2023

129. T. Xu, F. Liu, **C. Masouros,** I. Darwazeh, "An Experimental Proof of Concept for Integrated Sensing and Communications Waveform Design", IEEE Open Journal of Comms. Soc., *vol. 3, pp. 1643-1655, 2022,* doi: 10.1109/OJCOMS.2022.3209641.

128. J. Zhang, **C. Masouros,** Y.Huang, "CSI-Free Geometric Symbol Detection via Semi-supervised Learning and Ensemble Learning", IEEE Trans Comms., *vol. 70, no. 11, pp. 7265-7278, Nov. 2022, doi: 10.1109/TCOMM.2022.3209888.*

127. N. Babu, M. Virgili, M. Al-Jarrah, X. Jing, E. Alsusa, P. Popovski, A. Forsyth, **C. Masouros**, C. Papadias, "Energy-Efficient Trajectory Design of a Multi-IRS Assisted Portable Access Point", IEEE Trans Veh. Tech., *vol. 72, no. 1, pp. 611-622, Jan. 2023*

126. Z. Wei, **C. Masouros,** P. Wang, X. Zhu, H. Zeng, H. Tang, "Beyond Non-Orthogonal Multiple Access: New Role of Constructive Interference," IEEE Wireless Comms Letters. *vol. 11, no. 10, pp. 2225-2229, Oct. 2022, doi: 10.1109/LWC.2022.3197633.*

125. M. Virgili, N. Babu, I. Valiulahi, M. Javidsharifi, **C. Masouros**, A. Forsyth, C. Papadias, T. Kerekes, "Cost-Efficient Design of an Energy-Neutral UAV-Based Mobile Network", IEEE Trans Comms., *vol. 70, no. 10, pp. 6890-6901, Oct. 2022*

124. Z. Wei, **C. Masouros,** P. Wang, X. Zhu, J. Wang, A. Petropulu, "Physical Layer Anonymous Precoding Design: From the Perspective of Anonymity Entropy" IEEE Journal on Sel. Areas. Comms, *vol. 40, no. 11, pp. 3224-3238, Nov. 2022, doi: 10.1109/JSAC.2022.3211556.*

123. Z. Gao, Z. Wan, D. Zheng, S. Tan, **C. Masouros**, D. K. Ng, S. Chen, "Integrated Sensing and Communication with mmWave Massive MIMO: A Compressed Sampling Perspective", IEEE Trans Wireless Comms., vol. 22, no. 3, pp. 1745-1762, March 2023

122. O. Dizdar, A. Kaushik, B. Clerckx, **C. Masouros**, "Energy Efficient Dual-Functional Radar-Communication: Rate-Splitting Multiple Access, Low-Resolution DACs, and RF Chain Selection", IEEE Open Journal of ComSoc, *vol. 3, pp. 986-1006, 2022,* **DOI:** 10.1109/OJCOMS.2022.3183950.

121. H. Zheng, Z. Wei, X. Zhu, Y. Jiang, Y. Wang and **C. Masouros,** "Multi-Cluster Coordination Industrial IoT: The Era of Non-Orthogonal Transmission", IEEE Veh. Tech. Mag., *in press*

120. F. Liu, Y. Cui, **C. Masouros,** J. Xu, T. X. Han, A. Hassanien, Y. Eldar, S. Buzzi, "Integrated Sensing and Communications: Toward Future Dual-functional Wireless Networks", IEEE Journal on Sel. Areas Comms., *vol. 40, no. 6, pp. 1728-1767, June 2022,* ***– Top most accessed paper from JSAC in April-Oct 2022***

119. N. Su, F. Liu, Z. Wei, Y. Liu, **C. Masouros**, "Secure Dual-Functional Radar-Communication Transmission: Exploiting Interference for Resilience Against Target Eavesdropping", IEEE Trans. Wireless Comms., *vol. 21, no. 9, pp. 7238-7252, Sept. 2022*

118. Z. Wei, F. Liu, **C. Masouros,** N. Su, A. Petropulu, "Towards Multi-Functional 6G Wireless Networks: Integrating Sensing, Communication and Security" IEEE Wireless Comms Mag., *vol. 60, no. 4, pp. 65-71, April 2022*

117. I. Valiulahi, A. Salem, **C. Masouros**, F. Liu "Antenna Selection for Energy-Efficient Dual-Functional Radar-Communication Systems", IEEE Wireless Comms. Let., vol. 11, no. 4, pp. 741-745, April 2022

116. F. Liu, Y. Liu, A. Li, **C. Masouros,** Y. Eldar, "Cramér-Rao Bound Optimization for Joint Radar-Communication Design", IEEE Trans. Sig. Proc., vol. 70, pp. 240-253, 2022, doi: 10.1109/TSP.2021.3135692. ***– 8th most accessed paper from TSP in Oct 2022***

115. Y. Qin, X. Liao, A. Li, **C. Masouros,** "A Low-Complexity PAPR Minimization for Symbol Level Precoded Multi-User MISO-OFDM System", IEEE Communication Letters., vol. 26, no. 2, pp. 409-413, Feb. 2022, doi: 10.1109/LCOMM.2021.3132986.

114. J. Qian, **C. Masouros,** "Multipair Relaying with Space-Constrained Large-Scale MIMO Arrays: Spectral and Energy Efficiency Analysis with Incomplete CSI", IEEE OJ ComSoc., *vol. 2, pp. 2357-2371, 2021*

113. J. Zhang, **C. Masouros,** "A Unified Framework for Precoding and Pilot Design for FDD Symbol-Level Precoding", IEEE Trans Wireless Comms., *vol. 21, no. 5, pp. 2862-2875, May 2022*

112. Z. Wei, **C. Masouros,** V. Poor, A. Petropulu, and L. Hanzo, "Physical Layer Anonymous Precoding: the Path to Privacy-Preserving Communications", IEEE. Wireless Comms., *vol. 29, no. 2, pp. 154-160, April 2022*

111. A. Zhang, F. Liu, **C. Masouros**, R. Heath, Z. Feng, L. Zheng, A. Petropulu, "An Overview of Signal Processing Techniques for Joint Communication and Radar Sensing", IEEE Journal Selected Topics in Signal Processing., *vol. 15, no. 6, pp. 1295-1315, Nov. 2021* **DOI:** 10.1109/JSTSP.2021.3113120 - ***– 2nd most accessed paper from JSTSP in October 2022 - IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

110. A. Salem, **C. Masouros**, B. Clerckx, "Rate Splitting with Finite Constellations: The Benefits of Interference Exploitation vs Suppression", IEEE Open Journal ComSoc., *vol. 2, pp. 1541-1557, 2021, doi: 10.1109/OJCOMS.2021.3092815.*

109. Z. Wei, F. Liu, **C. Masouros**, V. Poor, "Fundamentals of Physical Layer Anonymous Communications: Sender Detection and Anonymous Precoding", IEEE Trans. Wireless Comms., *vol. 21, no. 1, pp. 64-79, Jan. 2022, doi: 10.1109/TWC.2021.3093722*

108. J. Zhang, **C. Masouros**, "Beam Drift in Millimeter Wave Links: Beam Width Tradeoffs and Learning Based Optimization", IEEE Trans Comms., *vol. 69, no. 10, pp. 6661-6674, Oct. 2021,* **DOI:** 10.1109/TCOMM.2021.3088896

107. L. Chen, F. Liu, W. Wang, **C. Masouros**, "Joint Radar-Communication Transmission: A Generalized Pareto Optimization Framework", IEEE Trans. Signal Processing, *vol. 69, pp. 2752-2765, 2021,* **DOI:** 10.1109/TSP.2021.3077307 ***– 20th most accessed paper from TSP in Aug 2021***

106. A. Salem, **C. Masouros**, "Error Probability Analysis and Power Allocation for Interference Exploitation Over Rayleigh Fading Channels", IEEE Trans. Wireless Comms., *vol. 20, no. 9, pp. 5754-5768, Sept. 2021,* **DOI:** 10.1109/TWC.2021.3069803

105. A. Salem, **C. Masouros**, K. K. Wong, "On the Secrecy Performance of Interference Exploitation with PSK: A Non-Gaussian Signaling Analysis", IEEE Trans. Wireless Comms., *vol. 20, no. 11, pp. 7100-7117, Nov. 2021,* **DOI:** 10.1109/TWC.2021.3080686

104. J. Zhang, **C. Masouros,** "Learning-Based Predictive Transmitter-Receiver Beam Alignment in Millimeter Wave Fixed Wireless Access Links", IEEE Trans Sig. Proc., *vol. 69, pp. 3268-3282, 2021,* **DOI:** 10.1109/TSP.2021.3076899

103. X. Hu, **C. Masouros,** K. K. Wong, "Reconfigurable Intelligent Surface Aided Mobile Edge Computing: From Optimization-Based to Location-Only Learning-Based Solutions", IEEE Trans Comms, *vol. 69, no. 6, pp. 3709-3725,* **DOI:** 10.1109/TCOMM.2021.3066495 ***– 22nd most accessed paper from TCOM in Aug 2021***

102. G. Lyu, Y. You, A. Li, **C. Masouros,** "Probabilistic Constructive Interference Precoding for Imperfect CSIT", IEEE Trans Veh Tech., *vol. 70, no. 4, pp. 3932-3937, April 2021,* **DOI:** 10.1109/TVT.2021.3064610

101. X. Jing, J. Sun, **C. Masouros,** "Energy Aware Trajectory Optimization for Aerial Base Stations", IEEE Trans. Comms. *vol. 69, no. 5, pp. 3352-3366, May 2021,* **DOI:** 10.1109/TCOMM.2021.3055525

100. Y. Wang, N. Chen, F. Liu, A. Li, J. Zhou, **C. Masouros,** "Constant Envelope Precoding with Extended Degrees of Freedom through Per-user Symbol Scaling", IEEE Comms Letters., *vol. 25, no. 5, pp. 1620-1624, May 2021,* **DOI:** 10.1109/LCOMM.2020.3048716

99. E. Vlachos, A. Kaushik, J. Thompson, **C. Masouros**, "RF-Chain Selection for Energy and Spectral Efficiency Maximization in Hybrid Beamforming under Hardware Imperfections", Proceedings of the Royal Society, *476: 20200451 – **EiC invited paper***

98. A. Li, **C. Masouros**, L. Swindlehurst, W. Yu, "1-Bit Massive MIMO Transmission: Embracing Interference with Symbol-Level Precoding", IEEE Comms. Mag., *vol. 59, no. 5, pp. 121-127, May 2021,* **DOI:** 10.1109/MCOM.001.2000601

97. W. Yuan, F. Liu, **C. Masouros**, J. Yuan, D. W. K. Ng, N. Prelcic, "Bayesian Predictive Beamforming for Vehicular Networks: A Low-Overhead Joint Radar-Communication Approach", IEEE Trans. Wireless Comms., *vol. 20, no. 3, pp. 1442-1456, March 2021,* **DOI** 10.1109/TWC.2020.3033776 ***- 37th most accessed paper from TWC in April 2021 - IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

96. A. Li, **C. Masouros**, Y. Li, L. Swindlehurst, "Interference Exploitation Precoding for Multi-Level Modulations: Closed-Form Solutions", IEEE Trans. Comms., *vol. 69, no. 1, pp. 291-308, Jan. 2021,* **DOI** 10.1109/TCOMM.2020.3031616

95. Z. Wei, F. Liu, **C. Masouros**, "Secure Directional Modulation with Few-bit Phase Shifters: Optimal and Closed Form Designs", IEEE Trans. Comms., *vol. 69, no. 1, pp. 486-500, Jan. 2021,* **DOI** 10.1109/TCOMM.2020.3032459

94. J. Zhang, Y. Huang, J. Wang, X. You, **C. Masouros,** "Intelligent Interactive Beam Training for Millimeter Wave Communications", IEEE Trans Wireless Comm., *vol. 20, no. 3, pp. 2034-2048, March 2021*, **DOI** 10.1109/TWC.2020.3038787

93. F. Liu and **C. Masouros**, "A Tutorial on Joint Radar and Communication Transmission for Vehicular Networks - Part I: Background and Fundamentals", IEEE Comms Lett., *vol. 25, no. 2, pp. 322-326, Feb. 2021,* **DOI:** 10.1109/LCOMM.2020.3025310 *– **EiC invited paper** **– 12th most accessed paper from COMML in Aug 2021 - IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

92. F. Liu and **C. Masouros**, "A Tutorial on Joint Radar and Communication Transmission for Vehicular Networks - Part II: State of the Art and Challenges Ahead", IEEE Comms Lett., *vol. 25, no. 2, pp. 327-331, Feb. 2021,* **DOI:** 10.1109/LCOMM.2020.3025339 *– **EiC invited paper** **– 24th most accessed paper***

from COMML in Aug 2021 - IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)

91. F. Liu and **C. Masouros**, "A Tutorial on Joint Radar and Communication Transmission for Vehicular Networks - Part III: Predictive Beamforming without State Models", IEEE Comms Lett., *vol. 25, no. 2, pp. 332-336, Feb. 2021,* **DOI:** 10.1109/LCOMM.2020.3025331 – ***EiC invited paper – 38th most accessed paper from COMML in Aug 2021 - IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

90. I. Valiulahi, **C. Masouros**, "Multi-UAV Deployment for Throughput Maximization in the Presence of Co-Channel Interference", IEEE IoT Journal., *vol. 8, no. 5, pp. 3605-3618, 1 March, 2021.* **DOI:** 10.1109/JIOT.2020.3023010

89. N. Su, F. Liu, **C. Masouros**, "Secure Radar-Communication Systems with Malicious Targets: Integrating Radar, Communications and Jamming Functionalities", IEEE Trans. Wireless Comms., *vol. 20, no. 1, pp. 83-95, Jan. 2021,* **DOI:** 10.1109/TWC.2020.3023164 - ***IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

88. F. Liu, W. Yuan, **C. Masouros** and J. Yuan, "Radar-assisted Predictive Beam-forming for Vehicular Links: Communication Served by Sensing", IEEE Trans. Wireless Comms., *vol. 19, no 11, pp. 7704-7719, Nov. 2020,* **DOI:** 10.1109/TWC.2020.3015735 - ***IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

87. A. Mohammad, **C. Masouros**, I. Andreopoulos, "Complexity-Scalable Neural Network Based MIMO Detection With Learnable Weight Scaling", IEEE Trans. Comms., *vol. 68, no. 10, pp. 6101-6113, Oct. 2020,* **DOI:** 10.1109/TCOMM.2020.3007622

86. F. Liu, **C. Masouros,** T. Ratnarajah, A. Petropulu "On Range Sidelobe Reduction for Dual-functional Radar-Communication Waveforms", IEEE Wireless Comms Let, *vol. 9, no. 9, pp. 1572-1576, Sept. 2020*, **DOI:** 10.1109/LWC.2020.2997959

85. A. Li, F. Liu, **C. Masouros**, Y. Li, B. Vucetic, "Interference Exploitation 1-Bit Massive MIMO Precoding: A Partial Branch-and-Bound Solution with Near-Optimal Performance", IEEE Trans. Wireless Comms., *vol. 19, no. 5, pp. 3474-3489, May 2020,* **DOI:** 10.1109/TWC.2020.2973987

84. Z. Wei, **C. Masouros**, S. Chatzinotas, B. Ottersten, "Energy- and Cost-Efficient Physical Layer Security in the Era of IoT: The Role of Interference", IEEE Comms. Mag., *vol. 58, no. 4, pp. 81-87, April 2020.* **DOI:** 10.1109/MCOM.001.1900716

83. A. Li, D. Spano, J. Krivochiza, S. Domouchtsidis, C. Tsinos, **C. Masouros**, S. Chatzinotas, Y. Li, B. Vucetic, B. Ottersten, "A Tutorial on Interference Exploitation via Symbol-Level Precoding: Overview, State-of-the-Art and Future Directions", IEEE Comms. Surveys and tutorials., *vol. 22, no. 2, pp. 796-839, Secondquarter 2020,* **DOI:** 10.1109/COMST.2020.2980570

82. F. Liu, **C. Masouros,** H. Griffiths, A. Petropulu, L. Hanzo "Joint Radar and Communication Design: Applications, State-of-the-art, and the Road Ahead", IEEE Trans Comms, ***EiC invited paper*** *vol. 68, no. 6, pp. 3834-3862, June 2020,* **DOI:** 10.1109/TCOMM.2020.2973976 – ***IEEE ComSoc Stephen O. Rice Prize - 2nd most accessed paper from TCOM in April-October 2021 - IEEE Communication Society Best Readings (https://www.comsoc.org/publications/best-readings)***

81. M. K. Tukur, **C. Masouros**, "Delay-Constrained Beamforming and Resource Allocation in Full Duplex Systems", IEEE Trans. Veh Tech., *vol. 69, no. 3, pp. 3476-3480, March 2020,* **DOI:** 10.1109/TVT.2020.2967243

80. Z. Wei, **C. Masouros**, "Device-Centric Distributed Antenna Transmission: Secure Precoding and Antenna Selection with Interference Exploitation", IEEE Trans. IoT., *vol. 7, no. 3, pp. 2293-2308, March 2020.,* **DOI:** 10.1109/JIOT.2019.2958420

79. T. Xu, **C. Masouros,** I. Darwazeh "Design and Prototyping of Hybrid Analog Digital Multiuser MIMO Beamforming for Non-Orthogonal Signals", IEEE Trans IoT, *vol. 7, no. 3, pp. 1872-1883, March 2020,* **DOI:** 10.1109/JIOT.2019.2956872

78. J. Qian, **C. Masouros,** M. Matthaiou "Multi-Pair Two-Way Massive MIMO Relaying with Zero Forcing: Energy Efficiency and Power Scaling Laws", IEEE Trans Comms., *vol. 68, no. 3, pp. 1417-1431, March 2020,* **DOI:** 10.1109/TCOMM.2019.2959329

77. Z. Wei, **C. Masouros**, K. K. Wong, K. Xin, "Multi-Cell Interference Exploitation: Enhancing the Power Efficiency in Cell Coordination", IEEE Trans. Wireless Comms., *vol. 19, no. 1, pp. 547-562, Jan. 2020,* **DOI:** 10.1109/TWC.2019.2946818

76. G. Hegde, **C. Masouros,** M. Pesavento, "Coordinated Hybrid Precoding for Interference Exploitation in Heterogeneous Networks", IEEE Comms Letters, *vol. 23, no. 11, pp. 2109-2113, Nov. 2019,* **DOI:** 10.1109/LCOMM.2019.2933840

75. F. Liu, A. Garcia, **C. Masouros,** G. Geraci, "Interfering Channel Estimation in Radar-Cellular Coexistence: How Much Information Do We Need?", IEEE Trans. Wireless Comms., *vol. 18, no. 9, pp. 4238-4253, Sept. 2019,* **DOI:** 10.1109/TWC.2019.2921556

74. A. Salem, **C. Masouros**, K. K. Wong, "Sum Rate and Fairness Analysis for the MU-MIMO Downlink under PSK Signalling: Interference Suppression vs Exploitation", IEEE Trans. Comms., *vol. 67, no. 9, pp. 6085-6098, Sept. 2019,* **DOI:** 10.1109/TCOMM.2019.2920645

73. G. Hegde, **C. Masouros,** M. Pesavento, "Interference Exploitation-based Hybrid Precoding with Robustness Against Phase Errors", IEEE Trans. Wireless Comms., *vol. 18, no. 7, pp. 3683-3696, July 2019.,* **DOI:** 10.1109/TWC.2019.2917064

72. M. K. Tukur, **C. Masouros**, "A Scalable Energy vs. Latency Trade-off in Full Duplex Mobile Edge Computing Systems", IEEE Trans. Comms., *vol. 67, no. 8, pp. 5848-5861, Aug. 2019,* **DOI:** 10.1109/TCOMM.2019.2915833

71. T. Xu, **C. Masouros,** I. Darwazeh "Waveform and Space Precoding for Next Generation Downlink Narrowband IoT", IEEE Trans IoT., *vol. 6, no. 3, pp. 5097-5107, June 2019,* **DOI:** 10.1109/JIOT.2019.2896724

70. J. Sun, **C. Masouros,** "Deployment Strategies for Multiple Aerial BSs for User Coverage and Power Efficiency Maximization", IEEE Trans. Comms. *vol. 67, no. 4, pp. 2981-2994, April 2019.,* **DOI:** 10.1109/TCOMM.2018.2889460

69. M. R. Khandaker, **C. Masouros**, K. K. Wong, S. Timotheou, "Secure SWIPT by Exploiting Constructive Interference and Artificial Noise", IEEE Trans. Comms., *vol. 67, no. 2, pp. 1326-1340, Feb. 2019,* **DOI:** 10.1109/TCOMM.2018.2874658

68. M. K. Tukur, M. R. Khandaker, **C. Masouros**, "Interference Exploitation in Full Duplex Communications: Trading Interference Power for Both Uplink and Downlink Power Savings", IEEE Trans. Wireless Comms., *vol. 17, no. 12, pp. 8314-8329, Dec. 2018.,* **DOI:** 10.1109/TWC.2018.2876229

67. A. Li, **C. Masouros**, "Interference Exploitation Precoding Made Practical: Optimal Closed-Form Solutions for PSK Modulations", IEEE Trans. Wireless Comms., *vol. 17, no. 11, pp. 7661-7676, 2018,* **DOI:** 10.1109/TWC.2018.2869382

66. A. Li and **C. Masouros**, F. Liu, L. Swindlehurst, "Massive MIMO 1-Bit DAC Transmission: A Low-Complexity Symbol Scaling Approach", IEEE Trans. Wireless Comms., *vol. 17, no. 11, pp. 7559-7575, Nov. 2018,* **DOI:** 10.1109/TWC.2018.2868369

65. K. L. Law, **C. Masouros**, "Symbol Error Rate Minimization Beamforming for Interference Exploitation", IEEE Trans. Comms., *vol. 66, no. 11, pp. 5718-5731, Nov. 2018,* **DOI:** 10.1109/TCOMM.2018.2843784

64. M. K. Tukur, M. R. Khandaker, **C. Masouros**, "Robust Energy Harvesting FD Transmission: Interference Suppression vs. Exploitation", IEEE Comms. Letters, *vol. 22, no. 9, pp. 1866-1869, Sept. 2018.* **DOI:** 10.1109/LCOMM.2018.2848929

63. S. Payami, N. Balasubramanya, **C. Masouros,** M. Sellathurai, "Phase Shifters vs Switches: An Energy Efficiency Perspective on Hybrid Beamforming", IEEE Wireless Comms Letters., *vol. 8, no. 1, pp. 13-16, Feb. 2019,* **DOI:** 10.1109/LWC.2018.2846221

62. J. Qian, A. Garcia and **C. Masouros,** "Partial CSI Acquisition for Size-Constrained Massive MIMO Systems with User Mobility", IEEE Trans Veh Tech., *vol. 67, no. 9, pp. 9016-9020, Sept. 2018* **DOI:** 10.1109/TVT.2018.2849263

61. F. Liu, L. Zhou, **C. Masouros,** A. Li, W. Luo, A. Petropulu "Toward Dual-functional Radar-Communication Systems: Optimal Waveform Design", IEEE Trans. Sig. Proc., *vol. 66, no. 16, pp. 4264-4279, Aug.15, 15 2018,* **DOI:** 10.1109/TSP.2018.2847648

60. F. Liu, **C. Masouros,** A. Li., T. Ratnarajah, J. Zhou, "MIMO Radar and Cellular Coexistence: A Power-Efficient Approach Enabled by Interference Exploitation", IEEE Trans. Sig. Proc., *vol. 66, no. 14, pp. 3681-3695, July15, 15 2018,* **DOI:** 10.1109/TSP.2018.2833813

59. M. R. Khandaker, **C. Masouros**, K. K. Wong, "Constructive Interference Based Secure Precoding: A New Dimension in Physical Layer Security", IEEE Trans Forensics and Security., *vol. 13, no. 9, pp. 2256-2268, Sept. 2018,* DOI: 10.1109/TIFS.2018.2815541

58. A. Li and **C. Masouros**, "Energy Efficient SWIPT: From Fully-Digital to Hybrid Analog-Digital Beamforming", IEEE Trans. Veh Tech., *vol. 67, no. 4, pp. 3390-3405, April 2018* DOI: 10.1109/TVT.2017.2782775

57. F. Liu and **C. Masouros,** A. Li, H. Sun, L. Hanzo "MU-MIMO Communications and MIMO Radar: From Co-existence to Joint Transmission", IEEE Trans. Wireless Comms., *vol. 17, no. 4, pp. 2755-2770, April 2018,* DOI: 10.1109/TWC.2018.2803045

56. X. Xue, Y. Wang, L. Dai, **C. Masouros**, "Relay Hybrid Precoding Design in Millimeter-Wave Massive MIMO Systems", IEEE Trans. Sig. Proc., *vol. 66, no. 8, pp. 2011-2026, April 2018,* DOI**:** 10.1109/TSP.2018.2799201

55. A. Li, **C. Masouros**, and M. Sellathurai, "Analog-Digital Beamforming in the MU-MISO Downlink by use of Tunable Antenna Loads", IEEE Trans. Veh. Tech., *vol. 67, no. 4, pp. 3114-3129, April 2018* DOI**:** 10.1109/TVT.2017.2776563

54. C. Neil, A. Garcia, P. Smith, P. Dmochowski, **C. Masouros**, M. Shafi, "On the Performance of Spatially Correlated Large Antenna Arrays for Millimeter-Wave Frequencies", IEEE Journal on Antennas and Propagation., *vol. 66, no. 1, pp. 132-148, Jan. 2018* DOI: 10.1109/TAP.2017.2759842

53. F. Liu, **C. Masouros,** P. Amadori, H. Sun "An Efficient Manifold Algorithm for Constructive Interference based Constant Envelope Precoding", IEEE Sig. Proc. Let., vol. 24, no. 10, pp. 1542-1546, Oct. 2017 DOI**:** 10.1109/LSP.2017.2748230

52. P. V. Amadori and **C. Masouros,** "Large Scale Antenna Selection and Precoding for Interference Exploitation", IEEE Trans Comms., vol. 65, no. 10, pp. 4529-4542, Oct. 2017 DOI**:** 10.1109/TCOMM.2017.2720733

51. K. L. Law, **C. Masouros**, and M. Pesavento, "Transmit Beamforming for Interference Exploitation in the Underlay Cognitive Radio Z-channel", IEEE Trans. Sig. Proc., *vol. 65, no. 14, pp. 3617-3631, July 2017,* DOI: 10.1109/TSP.2017.2695448

50. F. Liu, **C. Masouros,** A. Li, T. Ratnarajah, "Robust MIMO Beamforming for Cellular and Radar Coexistence", IEEE Wireless Comms. Lett., *vol. 6, no. 3, pp. 374-377, June 2017.,* DOI: 10.1109/LWC.2017.2693985

49. A. Li, **C. Masouros**, and C. B. Papadias, "MIMO Transmission for Single-fed ESPAR with Quantized Loads", IEEE Trans. Comms., *vol. 65, no. 7, pp. 2863-2876, July 2017*, DOI: 10.1109/TCOMM.2017.2692224

48. A. Garcia, **C. Masouros,** and P. Rulikowski "Reduced Switching Connectivity for Power-Efficient Large Scale Antenna Selection", IEEE Trans. Comms., *vol. 65, no. 5, pp. 2250-2263, May 2017,* DOI: 10.1109/TCOMM.2017.2669030

47. A. Li and **C. Masouros**, "Exploiting Constructive Mutual Coupling in P2P MIMO by Analog-Digital Phase Alignment", IEEE Trans. Wireless Comms., *vol. 16, no. 3, pp. 1948-1962, March 2017,* DOI: 10.1109/TWC.2017.2657631

46. **C. Masouros** and L. Hanzo, "A Scalable Performance-Complexity Trade-off for Constellation-Randomization in Spatial Modulation", IEEE Trans. Veh. Tech., *vol. 66, no. 3, pp. 2834-2838, March 2017,* DOI: 10.1109/TVT.2016.2572760

45. A. Li, and **C. Masouros**, "Hybrid Analog-Digital mmWave MU-MIMO Transmission with Virtual Path Selection", IEEE. Commun. Lett., *vol. 21, no. 2, pp. 438-441, Feb. 2017,* DOI: 10.1109/LCOMM.2016.2621741- ***9th most accessed paper from COMML in February 2017***

44. P. V. Amadori and **C. Masouros,** "Constant Envelope Precoding by Interference Exploitation in Phase Shift Keying-Modulated Multiuser Transmission", IEEE Trans Wireless Comms., *vol. 16, no. 1, pp. 538-550, Jan. 2017.,* DOI: 10.1109/TWC.2016.2626279

43. A. Garcia, V. Venkateswaran, P. Rulikowski and **C. Masouros,** "Hybrid Analog-Digital Precoding Revisited under Realistic RF Modeling", IEEE Wireless Comm Let., vol. 5, no. 5, pp. 528-531, Oct. 2016, DOI: 10.1109/LWC.2016.2598777

42. P. Yang, Y. Xiao, K. V. S. Hari, A. Chockalingam, S. Sugiura, H. Haas, M. Di Renzo, **C. Masouros**, Z. Liu, L. Xiao, S. Li, and L. Hanzo, "Single-Carrier Spatial Modulation: A Promising Design for Large-Scale Broadband Antenna Systems" , IEEE Communications Surveys and Tutorials, *vol. 18, no. 3, pp. 1687-1716, third quarter 2016,* DOI: 10.1109/COMST.2016.2533580

41. S. Biswas, **C. Masouros,** T. Ratnarajah, "Performance Analysis of Large Multi-User MIMO Systems with Space-Constrained 2D Antenna Arrays", IEEE Trans Wireless Comms., vol. 15, no. 5, pp. 3492-3505, May 2016, DOI: 10.1109/TWC.2016.2522419

40. A. Garcia and **C. Masouros,** "Exploiting the Increasing Correlation of Space Constrained Massive MIMO for CSI Relaxation", IEEE Trans. Comms., vol. 64, no.4, pp.1572-1587, April 2016, DOI: 10.1109/TCOMM.2016.2538222

39. S. Timotheou, G. Zheng, **C. Masouros**, and I. Krikidis "Exploiting Constructive Interference For Simultaneous Wireless Information And Power Transfer In Multiuser Downlink Systems", IEEE JSAC Special Issue on Green Communications and Networking: Second Issue, *vol. 34, no. 5, pp. 1772-1784, May 2016,* DOI: 10.1109/JSAC.2016.2551618

38. **C. Masouros** and L. Hanzo, "Constellation-Randomization Achieves Transmit Diversity for Single-RF Spatial Modulation", IEEE Trans. Veh. Tech., *vol. 65, no. 10, pp. 8101-8111, Oct. 2016,* DOI: 10.1109/TVT.2015.2513380

37. **C. Masouros** and L. Hanzo, "Constructive Interference as an Information Carrier by Dual Layered MIMO Transmission", IEEE Trans. Veh. Tech., *vol. 65, no. 12, pp. 10163-10167, Dec. 2016.,* DOI: 10.1109/TVT.2016.2528506

36. Y. Zhu, K. K. Wong, Y. Zhang and **C. Masouros,** "Geometric Power Control for Time-Switching Energy-Harvesting Two-User Interference Channel", IEEE Trans Veh. Tech., *vol. 65, no. 12, pp. 9759-9772, Dec. 2016,* DOI: 10.1109/TVT.2016.2520565

35. A. Li and **C. Masouros**, "A Two-stage Vector Perturbation Scheme for Adaptive Modulation in Downlink MU-MIMO", IEEE Trans. Veh. Tech., *vol. 65, no. 9, pp. 7785-7791, Sept. 2016.,* DOI: 10.1109/TVT.2015.2489263

34. P. V. Amadori and **C. Masouros,** "Interference Driven Antenna Selection for Massive Multi-User MIMO", IEEE Trans Veh Tech., vol. 65, no. 8, pp. 5944-5958, Aug. 2016, DOI: 10.1109/TVT.2015.2477457

33. **C. Masouros** and L. Hanzo, "Dual Layered MIMO Transmission for Increased Bandwidth Efficiency", IEEE Trans. Veh. Tech., *vol. 65, no. 5, pp. 3139-3149, May 2016,* DOI: 10.1109/TVT.2015.2438776

32. A. Garcia, **C. Masouros** and L. Hanzo, "Pre-Scaling Optimization for Space Shift Keying Based on Semidefinite Relaxation", IEEE Trans. Comms., vol.63, no.11, pp.4231-4243, Nov. 2015, DOI: 10.1109/TCOMM.2015.2470656

31. P. V. Amadori and **C. Masouros,** "Low RF-Complexity Millimeter-Wave Beamspace-MIMO Systems by Beam Selection", IEEE Trans. Comms., vol.63, no.6, pp.2212-2223, June 2015, DOI: 10.1109/TCOMM.2015.2431266

30. **C. Masouros** and G. Zheng, "Exploiting Known Interference as Green Signal Power for Downlink Beamforming Optimization", IEEE Trans. Sig. Proc., vol.63, no.14, pp.3668-3680, July, 2015, DOI: 10.1109/TSP.2015.2430839

29. **C. Masouros** and M. Matthaiou, "Space-Constrained Massive MIMO: Hitting the Wall of Favorable Propagation", IEEE Comms. Let., vol.19, no.5, pp.771-774, May 2015, DOI: 10.1109/LCOMM.2015.2409832

28. A. Li and **C. Masouros**, "A Constellation Scaling Approach to Vector Perturbation for Adaptive Modulation in MU-MIMO", IEEE Wireless Comms. Let., vol.4, no.3, pp.289-292, June 2015, DOI: 10.1109/LWC.2015.2410271

27. A. Garcia and **C. Masouros,** "Low-Complexity Compressive Sensing Detection for Spatial Modulation in Large-Scale Multiple Access Channels", IEEE Trans. Comms., vol.63, no.7, pp. 2565-2579, July 2015, DOI: 10.1109/TCOMM.2015.2434817 - ***7th most accessed paper from TCOM in July 2015***

26. G. Zheng, I. Krikidis, **C. Masouros,** S. Timotheou, D. A. Toumpakaris, Z. Ding, "Rethinking the Role of Interference in Wireless Networks", IEEE Comms. Mag., vol.52, no.11, pp.152,158, Nov. 2014, DOI: 10.1109/MCOM.2014.6957156

25. **C. Masouros**, M. Sellathurai**,** T. Ratnarajah, "Maximizing Energy-Efficiency in the Vector Precoded MU-MISO Downlink by Selective Perturbation*"*, IEEE Trans. Wireless Comms., vol.13, no.9, pp.4974-4984, Sept. 2014, DOI: 10.1109/TWC.2014.2329480

24. A. Garcia and **C. Masouros,** "Power Loss Reduction for MMSE-THP with Multidimensional Symbol Scaling", IEEE Comms. Let., vol. 18, no. 7, pp. 1147-1150, July 2014, DOI: 10.1109/LCOMM.2014.2325023

23. S. M. Razavi, T. Ratnarajah, and **C. Masouros**, "Transmit-Power Efficient Linear Precoding Utilizing Known Interference for the Multiantenna Downlink", IEEE Trans. Veh. Tech., vol. 63, no. 9, pp. 4383-4394, Nov. 2014, DOI: 10.1109/TVT.2014.2317716

22. A. Garcia and **C. Masouros,** "Power-Efficient Tomlinson-Harashima Precoding for the Downlink of Multi-User MISO Systems", IEEE Trans. Comms., vol.62, no.6, pp.1884-1896, June 2014, DOI: 10.1109/TCOMM.2014.2317189

21. **C. Masouros,** "Improving the Diversity of Spatial Modulation in MISO Channels by Phase Alignment", IEEE Comms. Let., vol. 18, no. 5, pp. 729-732, May 2014, DOI: 10.1109/LCOMM.2014.031414.140233

20. **C. Masouros,** J. Chen, K. Tong, M. Sellathurai, T. Ratnarajah, J. Wang, "Large Scale Antenna Arrays with Increasing Antennas in Limited Physical Space", China Communications Journal, vol.11, no.11, pp.7,15, Nov. 2014, DOI: 10.1109/CC.2014.7004519

19. **C. Masouros**, M. Sellathurai**,** T. Ratnarajah, "Vector Perturbation Based on Symbol Scaling for Limited Feedback MISO Downlinks*"*, IEEE Trans. Sig. Proc., vol. 62, no. 3, pp. 562-571, Feb.1, 2014, DOI: 10.1109/TSP.2013.2291223

18. **C. Masouros**, M. Sellathurai**,** T. Ratnarajah, "A Low-Complexity Sequential Encoder for Threshold Vector Perturbation*"*, IEEE Comms. Let., vol. 17, no. 12, pp. 2225-2228, Dec. 2013, DOI: 10.1109/LCOMM.2013.101813.131811

17. **C. Masouros**, M. Sellathurai**,** T. Ratnarajah, "Large-Scale MIMO Transmitters in Fixed Physical Spaces: The Effect of Transmit Correlation and Mutual Coupling*"*, IEEE Trans. Comms., vol. 61, no. 7, pp. 2794-2804, July 2013, DOI: 10.1109/TCOMM.2013.052013.120440

16. T. Ratnarajah, **C. Masouros,** F. Khan, M. Sellathurai, "Analytical Derivation of Multiuser Diversity Gains with Opportunistic Spectrum Sharing in CR Systems", IEEE Trans. Comms., vol. 61, no. 7, pp. 2664-2677, July 2013, DOI: 10.1109/TCOMM.2013.052013.120728

15. **C. Masouros,** T. Ratnarajah, M. Sellathurai, C. Papadias, A. Shukla, "Known interference in the cellular downlink: a performance limiting factor or a source of green signal power? ", IEEE Comms. Mag., vol. 51, no. 10, pp. 162-171, Oct. 2013, DOI: 10.1109/MCOM.2013.6619580

14. **C. Masouros** and E. Alsusa, "Interference Diversity Gains via Adaptive Block-Diagonalization for Multiuser MIMO Downlinks ", IET Electronics Letters, vol. 49, no. 7, pp. 504-506, March 2013, DOI: 10.1049/el.2012.4289

13. **C. Masouros**, M. Sellathurai**,** T. Ratnarajah, "Computationally Efficient Vector Perturbation Using Thresholded Optimization*"*, IEEE Trans. Comms., vol. 61, no. 5, pp. 1880-1890, May 2013, DOI: 10.1109/TCOMM.2013.022713.120632

12. F. Khan, **C. Masouros**, T. Ratnarajah, "Interference Driven Linear Precoding in Multiuser MISO Downlink Cognitive Radio Network", IEEE Trans. Veh. Tech., vol. 61, no. 6, pp. 2531-2543, July 2012, DOI: 10.1109/TVT.2012.2197428

11. **C. Masouros,** M. Sellathurai, T. Ratnarajah, "Interference Optimization for Transmit Power Reduction in Tomlinson-Harashima Precoded MIMO Downlinks", IEEE Trans. Sig. Proc., vol. 60, no. 5, pp. 2470-2481, May 2012, DOI: 10.1109/TSP.2012.2187520

10. **C. Masouros** and T. Ratnarajah, "Interference as a Source of Green Signal Power in Cognitive Relay Assisted Co-Existing MIMO Wireless Transmissions", IEEE Trans. Comms, vol. 60, no. 2, pp. 525-536, Feb 2012, DOI: 10.1109/TCOMM.2011.112811.100734

9. **C. Masouros** and E. Alsusa, "Performance-Driven Symbol Mapping for Downlink and Point-to-Point MIMO Systems", EURASIP Jour. On Wireless Comms and Networking, Special Issue on Recent Advances in Multiuser MIMO Systems, May 2011, DOI:10.1155/2011/376394
8. **C. Masouros,** "Correlation Rotation Linear Precoding for MIMO Broadcast Communications", IEEE Trans. on Sig. Proc., vol. 59, no. 1, pp. 252-262, Jan 2011, DOI: 10.1109/TSP.2010.2088395
7. **C. Masouros** and E. Alsusa, "Soft Linear Precoding for the Downlink of DS/CDMA Communication Systems", IEEE Trans. on Veh. Tech., vol. 59, no. 1, pp. 203-215, Jan 2010, DOI: 10.1109/TVT.2009.2026906
6. **C. Masouros** and E. Alsusa, "Transmit Antenna Selection for Partial Linear Precoding MIMO Schemes", IET Electronics Letters, vol. 45, no. 14, pp. 736-737, July 2009., DOI: 10.1049/el.2009.0330
5. **C. Masouros** and E. Alsusa, "Two-Stage Transmitter Precoding Based on Data-Driven Code Hopping and Partial Zero Forcing Beamforming for MC-CDMA Communications", IEEE Trans. on Wireless Comms., vol. 8, no. 7, pp. 3634-3645, July 2009,. DOI: 10.1109/TWC.2009.080740
4. **C. Masouros** and E. Alsusa, "Dynamic Linear Precoding for the Exploitation of Known Interference in MIMO Broadcast Systems", IEEE Trans. on Wireless Comms., vol. 8, no. 3, pp. 1396-1404, March 2009, DOI: 10.1109/TWC.2009.080053
3. **C. Masouros** and E. Alsusa, "Interference Exploitation Using Adaptive Code Allocation for the Downlink of Precoded MC-CDMA Systems", IET Journal on Communications, vol. 2, no. 9, pp. 1118-1130, Oct. 2008, DOI: 10.1049/iet-com:20070628
2. E. Alsusa and **C. Masouros**, "Adaptive Code Allocation for Interference Management on the Downlink of DS-CDMA Systems", IEEE Trans. on Wireless Comms., vol. 7, no. 7, pp. 2420-2424, July 2008, DOI: 10.1109/TWC.2008.061043
1. **C. Masouros** and E. Alsusa, "A Novel Transmitter-Based Selective-Precoding Technique for DS/CDMA systems", IEEE Signal Processing letters, vol. 14, no. 9, pp. 637-640, Sept. 2007, DOI: 10.1109/LSP.2007.896196

Συνέδρια

208. X. Gao, X. Hu, H. Xiao, Y. Wang, W. Wang, C. Masouros, K. Yang "Secrecy Rate Maximization in NOMA-UAV Enabled ISCC Networks", IEEE ICC 2026
207. Y. Wang, X. Hu, X. Gao, H. Xiao, A. Li, C. Masouros, K. K. Wong, K. Yang "Hybrid CI-BLP Design in ISAC Systems", IEEE ICC 2026
206. J. Chen, L. Xia, X. Zhang, K. Meng, C. Masouros, "Integrated Sensing and Communication with Tri-Hybrid Beamforming Across Electromagnetically Reconfigurable Antennas", IEEE ICC 2026
205. K. Meng, K. Han, C. Masouros, "Constellation Selection and Power Allocation for OFDM ISAC: Optimization and Experiments", IEEE ICC 2026
204. B. Du, Y. Zhang, C. Masouros, B. Clerckx, "Signal Design for OTFS Dual-Functional Radar and Communications with Imperfect CSI", IEEE ICC 2026
203. J. Huang, D. Zhang, Y. Cui, X. Cao, T. X. Han, X. Jing, C. Masouros, "A Sensing Dataset Protocol for Benchmarking and Multi-Task Wireless Sensing", IEEE ICC 2026
202. M. Temiz, C. Horne, M. Ritchie, C. Masouros, "Improved Data Rates for Radar-centric ISAC with Index and Phase Modulations", IEEE ICC 2026
201. J. Zhang, Y. Huang, J. Wang, C. Masouros, X. You, B. Ottersten, "Theoretical Analysis for Control-Assisted UAV Millimeter Wave Communications", IEEE ICC 2026
200. K. Han, K. Meng, A. Chatzicharistou, C. Masouros, "Constellation Design in OFDM-ISAC over Data Payloads: From MSE Analysis to Experimentation", IEEE ICC 2026
199. J. Zhang, Y. Huang, J. Wang, C. Masouros, X. You, "Beam Prediction and Tracking for UAV Millimeter Wave Communications: Identify and Exploit Information Provided by PID Controller", IEEE ICC 2026
198. J. Guo, J. Zhang, Z. Qiao, F. Khan, C. Masouros, J. Xue, "OTFS-ISAC Systems with Aerial Targets: Hybrid Precoder Design and Radar Tracking", IEEE ICC 2026

197. J. Chen, L. Xia, C. Masouros, “'Exploiting Scatterers for Sensing Security In ISAC Systems'”, IEEE ICASSP 2026

196. N. Idrees, K. Han, C. Desset, C. Masouros, A. Bourdoux, “Phase Noise Mitigation in Bi-Static OFDM-JCAS by Exploiting Static Clutter”, IEEE JC&S 2026

195. A. Chatzicharistou, K. Han, C. Masouros, “Multi-User Geometric Constellation Shaping for MIMO-OFDM Integrated Sensing and Communication Systems.” IEEE Asilomar 2025

194. Z. Zhang, D. Morales, J. Dang, Z. Zhang, C. Masouros, H. Jiang, “Low-Complexity CSI Acquisition Exploiting Geographical Diversity in Fluid Antenna System”, IEEE GlobeCom 2025

193. Y. Ge, F. Keskin, H. Chen, M. Li, C. Masouros, H. Wymeersch, “Pilot-Based End-to-End Radio Positioning and Mapping for ISAC: Beyond Point-Based Landmarks”, IEEE GlobeCom 2025

192. Y. Wang, X. Hu, A. Li, C. Masouros, K. K. Wong, K. Yang, “Finite-Alphabet CI-Based Precoding Design for MIMO ISAC System”, IEEE GlobeCom 2025

191. X. Jing, F. Liu, C. Masouros, X. Yu, “A Joint UAV Deployment and Beamforming Design for ISAC-Enabled Multi-UAV Network”, IEEE GlobeCom 2025

190. K. Meng, K. Han, C. Masouros, “Antenna Topology Optimization for Distributed Integrated Sensing and Communication”, IEEE WiOpt 2025

189. L. Jiang, K. Meng, C. Masouros, “Vertical Federated Learning-Based Cooperative Beamforming Framework for Multi-cell Integrated Sensing and Communication Systems”, IEEE SPAWC 2025

188. M. Temiz, N. Peters, C. Horne, M. Ritchie, C. Masouros, “Joint Radar-Communication Transmission Through Index and Phase Modulation”, IEEE SPAWC 2025

187. T. Xu, C. Masouros, I. Darwazeh “‘Reliable and Secure ISAC using Distributed Multiuser MIMO and Spectrally Efficient Non-Orthogonal Waveform’”, IEEE ISVLSI 2025

186. K. Han, K. Meng, C. Masouros, “Transmit Beamforming Design for Noncoherent Distributed Integrated Sensing and Communication Systems”, IEEE International Radar Conference 2025

185. I. Valiulahi, C. Masouros, A. Petropulu, “'ISAC Super-Resolution Receivers: The Effect of Different Dictionary Matrices'”, IEEE International Radar Conference 2025

184. J. Yang, A. Li, X. Liao, C. Masouros, L. Swindlehurst, “Beyond Diagonal RIS Aided Power Minimization Beamforming for MIMO Systems”, IEEE ICC 2025

183. X. Tong, L. Lei, A. Li, C. Masouros, “Novel CSI-Free Symbol-Level Precoding for MU-MIMO Systems with MLD Receiver”, IEEE ICC 2025

182. J. Zhang, Y Huang, J, Wang, W. Wang, C. Masouros, X. You, “Beam Prediction and Tracking for UAV: Identify and Exploit Future Information”, IEEE ICC 2025

181. Y. Li, F. Liu, C. Masouros, X. You, “Beyond RSRP: A Sensing-Assisted Handover Framework in V2I Networks”, IEEE ICC 2025

180. K. Meng, K. Han, C. Masouros, L. Hanzo, “Geometry Optimization in Cooperative Integrated Sensing and Communication Networks”, IEEE WCNC 2025

179. M. Al-Jarrah, E. Alsusa, Y. Kloob, C. Masouros, “Performance Trade-off Analysis of ISAC Systems Using Kullback-Leibler Divergence”, IEEE MECOM 2024

178. M. Liang, A. Li, X. Hu, C. Masouros, “A New Extrapolation Solution for MU-MISO Symbol-Level Precoding”, IEEE WCSP 2024

177. R. Winter, A. Catherall, C. Masouros, M. Ritchie, “Impact and Mitigation of Index Modulation on Radar Quality for FMCW-Based Communication-Radar Systems”, IEEE TechDefense2024

176. L. Jiang, K. Meng, M. Temiz, J. Hu, C. Masouros, “Distributed Beamforming for Cooperative Multi-cell ISAC: A Federated Learning Approach”, IEEE GlobeCom 2024

175. J. Yang, A. Li, X. Liao, C. Masouros, L. Swindlehurst, “Block-Level MU-MISO Interference Exploitation Precoding: A Projected Gradient Approach”, IEEE GlobeCom 2024

174. Y. Zhang, T. Xu, C. Masouros, Z. Han, “Net-Zero Integrated Sensing and Communication in Backscatter Systems”, IEEE GlobeCom 2024

173. X.Y. Wang, H. Zhai. S, Yang, C. Masouros, A. Zhang, “Optimizing Fingerprint-Spectrum-Based Synchronization in in Integrated Sensing and Communications”, IEEE GlobeCom 2024

171. T. Xu, **C. Masouros**, I. Darwazeh “An non-orthogonal waveform enabled spectrally efficient over-the-air ISAC transmission”, IEEE SPAWC 2024

170. K. Meng, **C. Masouros**, F. Liu, “Cooperative sensing and communication for ISAC networks: Performance Analysis and Optimization”, IEEE SPAWC 2024

169. X. Wang, S. Yang, **C. Masouros**, "Fingerprint-Spectrum-Based Synchronization in Asynchronous Perceptive Mobile Networks", IEEE SPAWC 2024

168. M. Al-Jarrah, E. Alsusa, Y. Kloob, **C. Masouros**, “Performance Trade-off Analysis of ISAC Systems Using Kullback-Leibler Divergence*”*, IEEE ICT 2024

167. K. Meng, **C. Masouros**, “Networked ISAC Coordinated Beamforming and Cooperative BS Cluster Optimization” IEEE CSNDSP 2024

166. T. Xu, Y. Ye, **C. Masouros**, “Signal Waveform Design for Resilient Integrated Sensing and Communications” IEEE CSNDSP 2024

165. Y. Kloob, M. Al-Jarrah, E. Alsusa, **C. Masouros**, “Trade off performance analysis of RadCom using the relative entropy*”*, IEEE ISCC 2024

164. Z. Wei, J. Wang, **C. Masouros**, T. Xu, J. Chen, A. Li, “Sub-Block Level Interference Exploitation Precoding in Satellite Communications*”*, IEEE IWCMC 2024

163. N. Babu, **C. Masouros**, “Symbol-Level Precoding for Multi-Cell ISAC*”*, IEEE JC&S 2024

162. K. Meng, **C. Masouros**, F. Liu “BS Coordination Optimization in Integrated Sensing and Communication: A Stochastic Geometric View” IEEE WCNC 2024

161. Y. Wang, A. Li, X. Hu, **C. Masouros**, “Intelligent Block-Level Interference Exploitation Beamforming Design: An ADMM Approach*”*, IEEE WCNC 2024

160. Z. Liao, F. Liu, A. Li, **C. Masouros,** “Wideband ISAC Optimization with Faster-Than-Nyquist Symbol-Level Precoding”, IEEE GC 2023

159. J. Zou, S. Sun, **C. Masouros,** Y. Cui, “Sensing-Centric Energy-Efficient Waveform Design for Integrated Sensing and Communications”, IEEE GC 2023

158. J. Zhang, **C. Masouros,** F. Liu, Y. Huang, “Exploiting Interference in Joint Radar-Communication Transmission”, IEEE GC 2023

157. J. Zhang, Y. Huang, **C. Masouros,** X. You, “Data-Induced Intelligent Kalman Filtering for Beam Prediction and Tracking of Millimeter Wave Communications”, IEEE GC 2023

156. N. Babu, **C. Masouros,** “Multi-cell Coordinated Joint Sensing and Communications”, IEEE Asilomar 2023, SS on Integrated Sensing and Communications

155. N. Su, F. Liu, **C. Masouros**, “Secure Integrated Sensing and Communication Systems with the Assistance of Sensing Functionality”, IEEE EUSIPCO 2023

154. Y. Wen, A. Li, G. Wei, **C. Masouros**, "'Interference Exploitation Mu-Miso Precoding Under Per-Antenna Power Constraint' IEEE SPAWC 2023

153. Y. Cui, Z. Wei, D. Wang **C. Masouros**, Q. Wang “Closed-Form Detection Error Rate Analysis In Physical Layer Anonymous Communications” IEEE SPAWC 2023

152. G. Wei, A. Li, **C. Masouros**, “Exploiting Constructive Power Amplifier Nonlinearities through Symbol-Level Precoding” IEEE SPAWC 2023

151. X. Jing, F. Liu, **C. Masouros**, “ISAC from the Sky: Net-Zero Energy UAV Trajectory Design” IEEE ICASSP 2023

150. Y. Li, F. Liu, Z. Du, W. Yuan, **C. Masouros**, “ISAC-Enabled V2I Networks Based on 5G NR: How Much Can the Overheads Be Reduced?” IEEE ICC 2023, 5th WS on ISAC

149. J. Yang, A. Li, **C. Masouros**, “Parallelizable First-Order Fast Algorithm for Symbol-Level Precoding in Lage-Scale Systems” IEEE VTC 2023

148. J. Yang, A. Li, **C. Masouros**, “Duality between the Power Minimization and Max-Min SINR Balancing Symbol-Level Precoding” IEEE VTC 2023

147. X. Meng, F. Liu, S. Lu, S. P. Chepuri, **C. Masouros**, “RIS-assisted Integrated Sensing and Communications: A Subspace Rotation Approach”, IEEE RadarConf2023

146. M. Temiz, N. Peters, C. Horne, M. Ritchie, **C. Masouros**, “Radar-Centric ISAC Through Index Modulation: Over-the-air Experimentation and Trade-offs”, IEEE RadarConf2023

145. J. Zhang, Y. Huang, **C. Masouros**, X. You, “Data-Induced Kalman Filtering Approach and Application in Beam Prediction and Tracking”, IEEE ICC 2023

144. N. Su, F. Liu, **C. Masouros**, “Sensing-assisted Physical Layer Security”, IEEE WSA 2023

143. A. Li, C. Shen, X. Liao, **C. Masouros**, L. Swindlehurst, “Block-Level Interference Exploitation Precoding without Symbol-by-Symbol Optimization”, IEEE WCNC 2023

142. M. Al-Jarrah, E. Alsusa, **C. Masouros**, “Kullback-Leibler Divergence Analysis for Integrated Radar and Communications (RadCom)”, IEEE WCNC 2023

141. A. Salem, **C. Masouros**, “NOMA Made Practical: Removing the SIC through Constructive Interference”, IEEE ISWCS 2023

140. T. Xu, F. Liu, **C. Masouros,** I. Darwazeh, “Proof of Concept Experiments of Joint Waveform Design for Integrated Sensing and Communications”, IEEE MobiCom 2022

139. X. Jing, F. Liu, **C. Masouros**, “Path Design for Portable Access Point in Joint Sensing and Communications under Energy Constraints” IEEE VTC-Fall 2022

138. I. Valiulahi, **C. Masouros**, “Resource Allocation Policies for Hybrid Power-Grid and Harvested Energy Communication Systems”, IEEE VTC-Fall 2022

137. Z. Wei, **C. Masouros**, T. Xu. Y. Jiang “Interference Exploitation with Multi-Antenna Receivers and Heterogeneous Throughput Requirements” IEEE GlobeCom 2022

136. S. Chen, A. Kaushik, **C. Masouros**, “Pre-Scaling and Codebook Design for Joint Radar and Communication Based on Index Modulation” IEEE GlobeCom 2022

135. J. Zhang, **C. Masouros**, “Complexity-Scalable Symbol-Level Precoding for MU-MISO via Model-Based Deep-Learning” IEEE SPAWC 2022

134. A. Salem, **C. Masouros**, B. Clerckx, “Security Tradeoffs in Rate Splitting Multiple Access: Optimal Signal Splitting vs Revealing” IEEE ICC 2022 – WS on Rate Splitting

133. A. Mohammad, **C. Masouros**, I. Andreopoulos, “Learning-Based Symbol Level Precoding: A Memory-Efficient Unsupervised Learning Approach”, IEEE WCNC 2022

132. F. Liu, Y. Liu, **C. Masouros,** A. Li, Y. Eldar, “A Joint Radar-Communication Precoding Design Based on Cramer-Rao Bound Optimization”, IEEE RadarConf 2022

131. Z. Wei, **C. Masouros,** S. Sun, “Physical Layer Anonymous Communications: An Anonymity Entropy Oriented Precoding Design”, IEEE ICASSP 2022

130. J. Zhang, **C. Masouros,** “A Deep-Learning Based Framework for Joint Downlink Precoding and CSI Sparsification”, IEEE ICC 2022

129. A. Kaushik, E. Vlachos, **C. Masouros,** C. Tsinos, J. Thompson, “Green Joint Radar-Communications: RF Selection with Low Resolution DACs and Hybrid Precoding”, IEEE ICC 2022

128. X. Hu, **C. Masouros,** F. Liu, R. Nissel, “Low-PAPR DFRC MIMO-OFDM Waveform Design for Integrated Sensing and Communications”, IEEE ICC 2022

127. J. Qian, **C. Masouros,** K. Tanabe, E. Sasaki, N. Zein, T. Marumoto “Beam-Pattern Assisted Low-Complexity Beam Alignment for Fixed Wireless mmWave xHaul”, IEEE ICC 2022

126. A. Kaushik, A. Arora, C. Tsinos, **C. Masouros**, F. Liu**,** S. Chatzinotas “Waveform Design for Joint Radar-Communications with Low Complexity Analog Components”, IEEE JCNS 2022

125. N. Su, F. Liu, **C. Masouros**, T. Ratnarajah, A. Petropulu “Secure Dual-functional Radar-Communication Transmission: Hardware-Efficient Design”, IEEE Asilomar 2021 – ***invited paper***

124. J. Zhang, **C. Masouros**, M. Rodrigues, “Robust Symbol-Level Precoding Beyond CSI Models: A Probabilistic-Learning Based Approach” IEEE GlobeCom 2021

123. A. Mohammad, **C. Masouros**, I. Andreopoulos, “An Unsupervised Learning-Based Approach for Symbol-Level-Precoding” IEEE GlobeCom 2021

122. A. Li, F. Liu, X. Liao, Y. Shen, **C. Masouros,** “Symbol-Level Precoding Made Practical for Multi-Level Modulations via Block-Level Rescaling”, IEEE SPAWC 2021

121. N. Su, F. Liu, Z. Wei, **C. Masouros**, “Secure Dual-Functional Radar-Communication System via Exploiting Known Interference in the Presence of Clutter”, IEEE SPAWC 2021

120. O. Dizdar, A. Kaushik, B. Clerckx, **C. Masouros**, “Rate-Splitting Multiple Access for Joint Radar-Communications with Low-Resolution DACs”, IEEE ICC 2021 – WS on Rate-Splitting for 6G

119. Z. Wei, and **C. Masouros,** “Constructive Interference based Joint Combiner and Precoder Design in Multiuser MIMO Systems”, IEEE ICC 2021 – WS on Emerging Topics in 6G Communications

118. F. Liu, **C. Masouros**, “Joint Localization And Predictive Beamforming In Vehicular Networks: Power Allocation Beyond Water-Filling”, IEEE ICASSP 2021 – ***invited paper***

117. Z. Xu, F. Liu, K. Diamantaras, **C. Masouros**, A. Petropulu, “Learning to Select for MIMO Radar based on Hybrid Analog-Digital Beamforming”, IEEE ICASSP 2021 – ***invited paper***

116. A. Kaushik, **C. Masouros**, F. Liu, “Hardware Efficient Joint Radar-Communications with Hybrid Precoding and RF Chain Optimization”, IEEE ICC 2021

115. X. Hu, **C. Masouros**, K.K. Wong “Removing Channel Estimation with Location-Only Based Deep Learning for RIS-Aided MEC”, IEEE ICC 2021

114. J. Qian, **C. Masouros,** “On the Effects of Channel Ageing in Two-Way Relaying with Space-Constrained Massive MIMO”, IEEE GlobeCom 2020 – WS-FIIoT

113. Z. Wei, F. Liu, **C. Masouros**, “Physical Layer Anonymous Communications”, IEEE GlobeCom 2020 - WS-5GBWS

112. Z. Wei, **C. Masouros**, F. Liu, T. Xu, “Optimal Closed-Form Designs for Directional Modulation with Practical Hardware Limitations”, IEEE GlobeCom 2020

111. Z. Wei, **C. Masouros**, T. Xu, K. K. Wong, “'Robust Interference Exploitation for Multi-Cell Transmission”, IEEE PIMRC 2020

110. A. Salem, **C. Masouros**, “Interference Exploitation for Secure Communications: Error Rate and Secrecy Analysis”, IEEE PIMRC 2020

109. X. Jing, **C. Masouros**, “UAV Trajectory Design and Bandwidth Allocation for Coverage Maximization with Energy and Time Constraints”, IEEE PIMRC 2020, WS-UAV5G&B

108. F. Liu, **C. Masouros**, “Joint Beamforming Design for Extended Target Estimation and Multiuser Communication”, IEEE Radar Conference 2020 – ***invited paper***

107. C. Aydogdu, F. Liu, **C. Masouros**, H. Wymeersch, M. Rydstrom, “Distributed Radar-aided Vehicle-to-Vehicle Communication”, IEEE Radar Conference 2020

106. W. Yuan, F. Liu, **C. Masouros**, J. Yuan, D. W. K. Ng, “Joint Radar-Communication Based Bayesian Predictive Beamforming for Vehicular Networks”, IEEE Radar Conference 2020 – ***invited paper***

105. F. Liu, W. Yuan, **C. Masouros** and J. Yuan, “Radar-assisted Predictive Beamforming for Vehicle-to-Infrastructure Links”, IEEE ICC 2020 – Workshop CRSS

104. A. Mohammad, **C. Masouros**, I. Andreopoulos, “Accelerated Learning-Based MIMO Detection through Weighted Neural Network Design”, IEEE ICC 2020

103. F. Liu, W. Yuan, **C. Masouros**, J. Yuan, “Radar-assisted Predictive Beamforming for Vehicle-to-Infrastructure Links”, IEEE ICC 2020, Workshop on Communication and Radar Spectrum Sharing

102. A. Li, F. Liu, **C. Masouros**, Y. Li, “Near-Optimal Interference Exploitation 1-Bit Massive MIMO Precoding Via Partial Branch-And-Bound”, IEEE ICASSP 2020

101. G. Hegde, **C. Masouros,** M. Pesavento, “Robust Hybrid Precoding for Interference Exploitation in Massive MIMO Systems”, IEEE ICASSP 2020

100. A. Salem, **C. Masouros**, “On the Error Probability of Interference Exploitation Precoding with Power Allocation”, IEEE WCNC 2020
99. Li and **C. Masouros**, Y. Li, B. Vucetic, “Multiplexing More Streams in the MU-MISO Downlink by Interference Exploitation Precoding”, IEEE WCNC 2020
98. N. Su, F. Liu and **C. Masouros**, “Enhancing the Physical Layer Security of Dual-functional Radar-Communication Systems”, IEEE GC 2019
97. J. Qian, **C. Masouros,** “On the Performance of Physically Constrained Multi-Pair Two-Way Massive MIMO Relaying with Zero Forcing”, IEEE PIMRC 2019
96. M. A Vazquez, J-P Pallois, M. Debbah, **C. Masouros**, T. Kenyon, Y. Deng, F. Mekuria, A. Pérez-Neira, J. Erfanian, B. Canada, “Machine Learning and Artificial Intelligence in Future Wireless Networks: A WWRF Perspective”, ITU Workshop on "Machine Learning for 5G and beyond" (17 June 2019) and Focus Group Meeting ML5G (18-20 June 2019) Geneva, Switzerland.
95. M. A Vazquez, J-P Pallois, M. Debbah, **C. Masouros**, T. Kenyon, Y. Deng, F. Mekuria, A. Pérez-Neira, J. Erfanian, B. Canada, “Deploying Artificial Intelligence in the Wireless Infrastructure: the Challenges Ahead”, Workshop on KI mobil - Artificial Intelligence and Mobile Communications for Holistic Mobility Concepts, IEEE WF5G
94. F. Liu, **C. Masouros**, H. Griffiths “Dual-functional Radar-Communication Waveform Design under Constant-modulus and Orthogonality Constraints”, SSPD 2019
93. F. Liu, A. Garcia, **C. Masouros**, G. Geraci, “Interfering Channel Estimation for Radar and Communication Coexistence”, IEEE SPAWC 2019
92. T. Xu, F. Liu, A. Li, **C. Masouros**, I. Darwazeh, “Constructive Interference Precoding for Reliable Non-Orthogonal IoT Signaling”, IEEE INFOCOM2019, WKSHPS: CNERT 2019: Computer and Networking Experimental Research using Testbeds
91. Z. Wei, **C. Masouros,** F. Liu, “Secure Transmission with Distributed Antennas based on Interference Exploitation”, IEEE ICC 2019
90. A. Li, **C. Masouros**, Y. Li, B. Vucetic, “Interference Exploitation Precoding for Multi-level Modulations”, IEEE ICASSP 2019
89. Z. Wei, **C. Masouros,** “'Robust Secure Precoding and Antenna Selection: A Probabilistic Optimization Approach for Interference Exploitation”, IEEE ICASSP 2019
88. F. Liu, **C. Masouros**, “Hybrid Beamforming With Sub-arrayed MIMO Radar: Joint Sensing and Communication at mmWave Band”, IEEE ICASSP2019
87. A. Salem, **C. Masouros,** “On the Finite Constellation Sum Rates for ZF and CI Precoding”, IEEE WCNC 2019
86. A. Salem, **C. Masouros,** “Rate Splitting Approach Under PSK signaling Using Constructive Interference Precoding Technique”, IEEE WCNC 2019, ***best paper award in Track 1: PHY and Fundamentals***
85. M. K. Tukur, M. R. Khandaker, **C. Masouros**, “Minimizing Energy and Latency in FD MEC Through Multi-objective Optimization”, IEEE WCNC 2019
84. M. K. Tukur, M. R. Khandaker, **C. Masouros**, “A Scalable Performance-Complexity Trade-off for Full Duplex Beamforming”, IEEE WCNC 2019
83. S. Payami, **C. Masouros,** M. Sellathurai, “Low-complexity and robust hybrid MIMO Beamforming and Channel Estimation”, IEEE GC 2018
82. J. Sun, **C. Masouros,** “Drone Positioning for User Coverage Maximization”, IEEE PIMRC 2018, WS on UAV Communications for 5G and Beyond
81. L. Zhou, F. Liu, **C. Masouros,** A. Li, W. Jiang and W. Luo, “Optimal Waveform Design For Dual-Functional MIMO Radar-Communication Systems”, IEEE ICCC 2018
80. A. Li, **C. Masouros**, F. Liu “Hybrid analog-digital precoding for interference exploitation”, EUSIPCO 2018 – special session “Overcoming interference in next-generation wireless networks” ***Προσκεκλημένο έργο***.

79. A. Li and **C. Masouros**, L. Swindlehurst, “1-Bit Massive MIMO Downlink Based on Constructive Interference”, EUSIPCO 2018
78. F. Liu, L. Zhou, **C. Masouros,** A. Li, A. Petropulu, “Dual-functional cellular and radar transmission: Beyond co-existence”, IEEE SPAWC 2018 – special session “Spectrum Sharing and Co-Existence” ***Προσκεκλημένο έργο***
77. A. Li, **C. Masouros** “Constructive Interference Beamforming for Cooperative Dual-Hop MIMO Relay Systems”, IEEE VTC spring 2018 ***Προσκεκλημένο έργο***.
76. G. Hegde, **C. Masouros,** M. Pesavento, “Analog Beamformer Design for Interference Exploitation Based Hybrid Beamforming”, IEEE SAM 2018
75. P. Amadori, and **C. Masouros** “A Mixed Integer Programming Approach to Interference Exploitation in Massive MIMO”, IEEE WCNC 2018
74. A. Li, **C. Masouros** “Hybrid Massive MIMO Unlicensed Transmission with 1-Bit Quantization”, IEEE GC 2017 , WS on licensed / unlicensed bands (LSASLUB)
73. M. R. Khandaker, **C**. **Masouros**, K. K. Wong, “Secure Full-Duplex Device-to-Device Communication”, IEEE GC 2017 , WS FDCFWN
72. F. Liu and **C. Masouros,** A. Li., T. Ratnarajah, “Radar and Communication Coexistence Enabled by Interference Exploitation”, IEEE GC 2017
71. M. K. Tukur, M. R. Khandaker, **C. Masouros**, “Reducing Self-interference in Full Duplex Transmission by Interference Exploitation”, IEEE GC 2017
70. A. Li, **C. Masouros**, M. Sellathurai, and C. Papadias, “Tunable Load MIMO with Quantized Loads”, EUSIPCO2017
69. A. Li and **C. Masouros**, “Analog-Digital Beamforming for Tunable-Load MIMO by Mutual Coupling Exploitation”, IEEE SPAWC 2017,
68. A. Li and **C. Masouros**, “Energy Efficient MIMO SWIPT by Hybrid Analog-Digital Beamforming”, IEEE SPAWC 2017,
67. M. R. Khandaker, **C. Masouros**, “Constructive Interference Based Secure Precoding”, IEEE ISIT 2017
66. F. Liu and **C. Masouros**, "Interference Exploitation for Radar and Cellular Coexistence - The Power-Efficient Approach," Antennas, Wireless and Electromagnetics, IET Colloquium on, Birmingham, 2017, pp. 1-20. ***Προσκεκλημένο έργο***
65. A. Li and **C. Masouros**, “Mutual Coupling Exploitation for MIMO Downlink by Constructive Interference”, IEEE ICC 2017
64. A. Li, and **C. Masouros**, 'Hybrid Precoding and Combing Design for Millimeter-Wave Multi-User MIMO based on SVD Decomposition', IEEE ICC 2017.
63. A. Li and **C. Masouros**, “Exploiting mutual coupling by means of analog-digital zero forcing”, IEEE ICASSP 2017
62. A. Garcia and **C. Masouros,** “Efficient Large Scale Antenna Selection by Partial Switching Connectivity”, IEEE ICASSP 2017
61. K. L. Law, **C. Masouros**, and M. Pesavento, “Bivariate Probabilistic Constrained Programming for Interference Exploitation in the Cognitive Radio”, IEEE ICASSP 2017
60. P. V. Amadori and **C. Masouros,** “Constructive Interference based Constant Envelope Precoding”, IEEE SPAWC 2016
59. S. Timotheou, G. Zheng, **C. Masouros**, and I. Krikidis “Symbol-level precoding in MISO broadcast channels for SWIPT systems”, IEEE ICT 2016, *Special Session on Exploiting interference towards energy efficient and secure wireless communications*
58. J. Zhang, L. Dai, M. Matthaiou, **C. Masouros** and S. Jin, “On the Spectral Efficiency of Space-Constrained Massive MIMO with Linear Receivers”, IEEE ICC 2016
57. S. Biswas, T. Ratnarajah, **C. Masouros,** “On the effect of Antenna Correlation and Coupling on the Energy-Efficiency of Massive MIMO Systems”, IEEE ICC 2016

56. A. Li and **C. Masouros**, “Performance Analysis for Single-fed ESPAR in the Presence of Impedance Errors and Imperfect CSI”, IEEE ICC 2016
55. **C. Masouros** and L. Hanzo, “Bandwidth Efficient Spatial Modulation by Signaling in the Power Domain”, IEEE ICC 2016
54. A. Garcia, **C. Masouros** and L. Hanzo, “Power-Efficient Space Shift Keying Transmission via Semidefinite Programming”, IEEE ICC 2016
53. K. Law and **C. Masouros,** “Constructive Interference Exploitation For Downlink Beamforming Based On Noise Robustness And Outage Probability”, IEEE ICASSP 2016
52. P. V. Amadori and **C. Masouros**, "Beam selection techniques in mm-wave communications," Antennas, Wireless and Electromagnetics, IET Colloquium on, Birmingham, 2015, pp. 1-20. ***Προσκεκλημένο έργο***
51. A. Garcia and **C. Masouros,** “Exploiting the Tolerance of Massive MIMO to Incomplete CSI for Low-Complexity Transmission”, IEEE GlobeCom2015
50. **C. Masouros** and G. Zheng, “Power Efficient Downlink Beamforming Optimization by Exploiting Interference”, IEEE GlobeCom2015, ***best paper award in Signal Processing for Communications (SPC) symposium***
49. K. Yang, **C. Masouros,** “On The Optimal Number Of Antennas For Power Efficient Generalised Spatial Modulation", IEEE CAMAD2015
48. **C. Masouros,** M. Sellathurai, T. Ratnarajah, “A Scalable Performance-Complexity Tradeoff for Vector Precoding by Partial Perturbation", IEEE SPAWC2015
47. A. Garcia and **C. Masouros,** “Low-Complexity Compressive Sensing Detection For Multi-User Spatial Modulation Systems”, IEEE ICASSP2015
46. G. Zheng, **C. Masouros**, I. Krikidis and S. Timotheou, “Exploring Green Interference Power for Wireless Information and Energy Transfer in the MISO Downlink”, IEEE ICC2015
45. A. Garcia and **C. Masouros,** “Energy-Efficient Spatial Modulation in Massive MIMO Systems by Means of Compressive Sensing”, IEEE ICC2015
44. P. V. Amadori and **C. Masouros,** “Power Efficient Massive MU-MIMO via Antenna Selection for Constructive Interference Optimization ", IEEE ICC2015
43. F. Ni Mhearain, M. Sellathurai, **C. Masouros**, “A Comparison of Precoding Techniques for the Dual Polarised Satellite Communications", ASMS2014, ***Προσκεκλημένο έργο***
42. **C. Masouros,** M. Sellathurai, T. Ratnarajah, “Selective Vector Perturbation for Low-Power Small Cell MISO Downlinks", IEEE GlobeCom2014
41. **C. Masouros,** M. Sellathurai, T. Ratnarajah, “Limited Feedback Vector Perturbation Precoding by MinMax Optimization", IEEE GlobeCom2014
40. P. V. Amadori and **C. Masouros,** “Beam Selection Techniques in Millimeter-Wave Beamspace-MIMO Systems", IEEE PIMRC2014
39. S. Biswas, T. Ratnarajah, **C. Masouros,** “On the effect of Antenna Correlation and Coupling on the Energy-Efficiency of Massive MIMO Systems”, IEEE PIMRC2014
38. **C. Masouros,** J. Chen, K. Tong, M. Sellathurai, T. Ratnarajah, “Exploiting Transmit Correlation and Mutual Coupling in Large-Scale MIMO Transmitters", IEEE European Wireless 2014, ***Προσκεκλημένο έργο***
37. A. Garcia and **C. Masouros,** “Optimizing Interference as a Source of Signal Energy with Non-Linear Precoding”, IEEE IWCMC 2014, ***Προσκεκλημένο έργο***
36. S. M. Razavi, T. Ratnarajah, **C. Masouros,** “Regularized Phase Alignment Precoding for the MISO Downlink”, IEEE IWCMC 2014, ***Προσκεκλημένο έργο***
35. **C. Masouros,** M. Sellathurai, T. Ratnarajah, “Bridging the Gap Between Linear and Non-linear Precoding in Small- and Large- Scale MIMO Downlinks", IEEE ICC2014
34. **C. Masouros,** M. Sellathurai, T. Ratnarajah, “Low Complexity Vector Precoding for Fast Fading MIMO Downlinks", IEEE GlobeCom 2013

33. **C. Masouros,** J. Chen, K. Tong, M. Sellathurai, T. Ratnarajah, “Towards Massive-MIMO Transmitters: On The Effects of Deploying Increasing Antennas in Fixed Physical Space", IEEE FNMS 2013
32. **C. Masouros,** T. Ratnarajah, M. Sellathurai, "'Complexity Reduction for Vector Precoding Using QoS Requirements", IEEE ICASSP 2013.
31. **C. Masouros**, M. Sellathurai**,** T. Ratnarajah, “A Performance-Complexity Tradeoff for Vector Perturbation Precoding”, IEEE ICC 2013
30. **C. Masouros,** *“*On Sum Rate and Throughput Gains by Exploiting Green Interference Power in the Multi-User MIMO Downlink", IEEE WCNC 2013.
29. S. M. Razavi, T. Ratnarajah, **C. Masouros,** M. Sellathurai, “Joint Interference and Phase Alignment in Multiuser MIMO Interference Channels", IEEE Asilomar 2012, ***Προσκεκλημένο έργο***.
28. **C. Masouros,** T. Ratnarajah, “Outage Performance of Relay-Assisted Co-Existing MIMO Downlinks that Exploit Interference*”,* IEEE PIMRC 2012.
27. **C. Masouros,** M. Sellathurai, T. Ratnarajah, “A Transmit-Power Efficient MIMO-THP Design", IEEE ISIT 2012.
26. F. Khan, **C. Masouros,** T. Ratnarajah, “Enhanced Outage Performance via Adaptive Cognitive Precoding in Multi-User Cognitive Radio Downlinks", IEEE ICC 2012.
25. H. Zhou, M. Sellathurai, **C. Masouros,** T. Ratnarajah, “On Dimension Scarcity for User Admission in MIMO Interference Aligned Networks", IEEE WCNC 2012.
24. **C. Masouros** and E. Alsusa, “Performance Driven Symbol Adaptation for Precoded Downlink and Point-to-Point MIMO Systems", IEEE WCNC 2012.
23. **C. Masouros,** F. Khan, M. Sellathurai, T. Ratnarajah, “On the Diversity Gains of User Scheduling in the Cognitive Radio Parallel Access Channel", IEEE GlobeCom 2011.
22. **C. Masouros**, “Linear Precoding Based On Correlation Rotation For The Multi-User MIMO Downlink", IEEE GlobeCom 2011
21. **C. Masouros**, M. Sellathurai, T. Ratnarajah, Y. C. Liang “Complex Interference Optimization for Power Loss Reduction in MIMO-THP Transmission", IEEE Asilomar 2011, ***Προσκεκλημένο έργο***.
20. F. Khan, **C. Masouros,** T. Ratnarajah, “Interference Driven Linear Precoding in Multiuser MISO Downlink Cognitive Radio Networks", IEEE Cog ART 2011, ***Προσκεκλημένο έργο***
19. **C. Masouros**, M. Sellathurai, T. Ratnarajah, “Improved Tomlinson-Harashima Precoding with Interference Optimization", IEEE DSP 2011.
18. **C. Masouros** and T. Ratnarajah, “Utilization Of Primary-Secondary Cross-Interference Via Adaptive Precoding In Cognitive Relay Assisted MIMO Wireless Systems", IEEE ICC 2011.
17. **C. Masouros** and E. Alsusa, “A Dynamic Symbol Mapping Technique for MIMO Systems with V-BLAST Detection,” IEEE PIMRC 2010
16. **C. Masouros**, E. Alsusa and Ulises Pineda Rico, “Adaptive Resource Allocation for DS-CDMA Systems Employing Space-Time Diversity”, IEEE ICASSP 2010
15. **C. Masouros** and E. Alsusa, “A Transmitter-Based Beamforming Scheme for the MIMO Downlink Employing Adaptive Channel Decomposition”, IEEE WCNC 2010
14. **C. Masouros** and E. Alsusa, “A Throughput Enhancing Linear Precoding Scheme for the MIMO Downlink”, IEEE WCNC 2010
13. **C. Masouros** and E. Alsusa, “Selective Channel Inversion Precoding for the Downlink of MIMO Wireless Systems”, IEEE International Conference on Communications (ICC), June 2009.
12. **C. Masouros** and E. Alsusa, “A Hybrid MC-CDMA Scheme Employing Code-Hopping and Partial Beamforming”, IEEE International Conference on Communications (ICC), June 2009.
11. **C. Masouros**, E. Alsusa and U. Pineda, “Transmit Antenna Selection for Partially Precoded MIMO Systems”, IEEE Wireless Communications and Networking Conference (WCNC), April 2009.
10. U. Pineda, E. Alsusa and **C. Masouros**, “Lattice-reduction for Power Optimisation using the Fast Least-Squares Solution-Seeker Algorithm,” IEEE Wireless Communications and Networking Conference (WCNC), April 2009

9. **C. Masouros** and E. Alsusa, “Data-Driven Code-Hopping for MC-CDMA Precoding Schemes”, IEEE International Global Communications Conference (GlobeCom), November 2008.
8. U. Pineda, E. Alsusa, **C. Masouros** “A Fast Least-Squares Solution-Seeker Algorithm for Vector-Perturbation”, IEEE International Global Communications Conference (GlobeCom), November 2008.
7. **C. Masouros**, E. Alsusa, U. Pineda, “Dynamic Code Allocation for Constructive Interference Exploitation in DS-CDMA Systems”, IEEE International Conference on Communications (ICC), June 2008
6. **C. Masouros** and E. Alsusa, "A Near-Far Resistant Precoding Technique for DS-CDMA Systems", IEEE International Global Communications Conference (GlobeCom), November 2007.
5. U. Pineda, E. Alsusa and **C. Masouros**, ”A Simple Low-Complexity Precoding Technique for MIMO Systems”, IEEE Wireless Communications and Networking Conference (WCNC), April 2007.
4. **C. Masouros** and E. Alsusa, "A New Dynamic Partial Precoding Technique for MC-CDMA systems employing PSK modulation", IEEE Workshop on Multicarrier Spread Spectrum and its Applications, March 2007.
3. **C. Masouros** and E. Alsusa, "A Novel Transmitter-Based Selective-Precoding Technique for DS/CDMA systems", IEEE International Conference on Communications (ICC), June 2007.
2. E. Alsusa and **C. Masouros**, "Adaptive Code Allocation for Interference Exploitation on the Downlink of MC-CDMA Systems", in the proceedings of the 4th COST289 Workshop, April 2007.
1. A. Doukas, G. Panitsas, **C. Masouros** and G. Kalivas, “Low Complexity Rake Receiver and Channel Estimator Implementation for DSSS-CDMA Systems", IEEE ISSSTA, August 2006