



The 21st International Conference  
on Wireless and Mobile Computing,  
Networking  
and Communications.  
20 - 22 October 2025,  
Marrakech, Morocco

# Conference Program

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## WiMob 2025

Marrakesh, Morocco



**IEEE**





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## Welcome

It is our great pleasure to welcome you to the 21st International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob'2025) in Marrakesh, Morocco. Since the first edition of WiMob in 2005, the IEEE International Conference on Wireless and Mobile Computing, Networking and Communications has been the key forum for the exchange of knowledge and experience among researchers, developers and practitioners of wireless and mobile technology. For nineteen years, the International IEEE WiMob conference has provided unique opportunities for researchers and developers to interact, share new results, show live demonstrations, and discuss emerging directions in Wireless Communications, Next Generation Mobile Networking, Artificial Intelligence based Communications & Networking, Blockchain and Cryptocurrency in Mobile Networks, and Trust, Security and Privacy in Wireless and Mobile Networks.

Putting together WiMob 2025 has been a team effort. First of all, we would like to thank all the authors who submitted papers (main conference and jointly organized workshops). Furthermore, we would like to express our gratitude to the program committee and to all external reviewers, who worked very hard on reviewing papers and providing suggestions for their improvements.

The technical program of the main conference WiMob consists of 48 full-papers constituting 36% of acceptance ratio and 5 short papers. Moreover, we are proud and thankful of having 2 renowned keynote speakers at the 2025 edition of WiMob: – Professor Carla Fabiana Chiasserini, Politecnico di Torino, Italy, and – Dr. Mikko Uusitalo, Nokia Bell Labs, Finland.

We would also like to thank the organizers of all workshops jointly organized with WiMob 2025:

- 18<sup>th</sup> International Workshop on Selected Topics in Wireless and Mobile computing (STWiMob 2025): Anna Maria Vegni (Roma Tre University, Italy) and Abderrahim Benslimane (University of Avignon, France).
- First International Workshop on Generative and eXplainable AI for Networking (GenXNet'25): Antonio Pescapè (University of Napoli, Italy), Giampaolo Bovenzi (University of Napoli, Italy) and Alfredo Nascita (University of Napoli, Italy).
- First International Workshop on AI for Mobile & Wireless Health: Advancing Explainability in the Future of Healthcare (AIMEH'25): Stefania Zinno (Università degli Studi di Napoli, Italy) and Giovanni Stanco (Università degli Studi di Napoli, Italy).



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- 13<sup>th</sup> International Workshop on e-Health Pervasive Wireless Applications and Services (eHPWAS'25): Tayeb Lemlouma (IRISA Lab and Rennes 1 University, France) leading the workshop with Sébastien Laborie (Université de Pau et des Pays de l'Adour, France), Abderrezak Rachedi (University Paris-Est Marne-la-Vallée, France) and Yevgeniya Kovalchuk (Birmingham City University, United Kingdom).

We owe much gratitude to our honorary General chair Lajos Hanzos (University of Southampton, UK) for his support.

We would like to thank our General Co-Chair Mohamed Essaïdi (School of Engineering Sciences, Mohammed V University, Morocco).

Many thanks to Eirini Eleni Tsiropoulou (Arizona State University, USA) and Isaac Woungang (Toronto Metropolitan University, Canada) for their efficient work throughout the reviews process and for leading the TPC co-chairs team, Renwei Li (Southeast University, China) and Xiapu Luo (The Hong Kong Polytechnic University, Hong Kong); many thanks to all for handling the Technical Program activities; their contributions were very valuable.

We would like to thank our Short Papers, Demos and Posters Symposium co-chairs, Valeria Loscri (INRIA, France) and Marica Amadeo (University Mediterranea of Reggio Calabria, Italy).

Without the help of the publicity co-chairs WiMob would not have had such a success; so, many thanks to Meryem Ayache (INPT, Morocco), Fatma Abdelkefi (SUPCOM, Tunisia), Leïla MERGHEM-BOULAHIA (Université de Technologie de Troyes, France), Moises Nuñez Ochoa (Universidad de Ingeniería y Tecnología, Peru), and Zhi Liu (The University of Electro-Communications, Tokyo, Japan).

Also, we would like to thank Francesca Meneghello (University of Padova, Italy) and Shui Yu (University of Technology Sydney, Australia) for handling aspects of the workshops start-up.

We present strong thanks to Abderrahim Jaouad and Adnane Latif (University of Cadi Ayyad, Morocco) as local organization Co-Chairs for helping in the logistics of IEEE WiMob 2025. Many thanks to Saadi Boudjit (University of Rouen, France) for his support and for serving as publication chair.

Also, we would like to thank strongly Habiba Elfatouaki (University of Cadi Ayyad, Morocco) for her outstanding work on posting information related to WiMob 2025 on the web site and Sahand Khodaparast (Avignon University, France) for handling the registrations system.

Finally, we would like to thank our technical sponsors IEEE and IEEE Communications Society for endorsing the conference.



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We hope that you will find this program interesting and thought-provoking and that it will provide you with a valuable opportunity to share ideas with other researchers and practitioners from institutions around the world.

**Abderrahim Benslimane**  
*WiMob 2025 General Chair*  
*Avignon University, France*



**Samuel Pierre**  
*WiMob 2025 Steering Committee Chair*  
*Ecole Polytechnique de Montreal, Canada*



**Lajos Hanzos**  
*WiMob 2025 Honorary General Chair*  
*University of Southampton, UK*





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## Program Overview

	Monday, October 20, 2025			Tuesday, October 21, 2025		Wednesday, October 22, 2025	
Time	Room 01	Room 02	Room 03	Room 01	Room 02	Room 01	Room 02
08:30 – 13:00	Registration			Registration		Registration	
09:00 – 10:30	ST1	ST2	ST3	W1	W4	W7	W10
10:30 – 11:00	Coffee Break			Coffee Break		Coffee Break	
11:00 – 11:30				Opening Ceremony (Plenary)		Free session	
11:00 – 12:30	N2WOMEN Panel (Plenary)			Keynote Speaker 1: (Plenary)		Keynote Speaker 2: (Plenary)	
12:30 – 14:00	Lunch			Lunch		Lunch	
14:00 – 15:30	ST4	ST5	SP	W2	W5	W8	W11
15:30 – 16:00	Coffee Break			Coffee Break		Coffee Break	
16:00 – 17:30 (18:00)	ST6 (5)	ST7*	GE (6)	W3	W6	W9	W12
17:30 – 18:00	-	-	-	-	-	Closing Remarks	
20:00	-	-	-	Conference Banquet		-	-

When not indicated between brackets, it is 4 papers; i.e., ST7\*(3 AI + 2 HP) = 3 papers from AI and 2 papers from HP.  
Workshop sessions of Monday 16:00 – 17:30, eventually till 18:00 when a session of 6 papers.

Legend:

Workshops

GE: GenXNet	HP: eHPWAS	AI: AIMEH	ST: STWiMob	
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Main Conference

W1, ..., W12 are sessions of the main conference WiMob  
SP: SPPDT WiMob Short Papers, Posters and Demos sessions of 5 papers

Rooms for sessions: Room 01: MAZAGAN, Room 02: BAHIA, Room 03: LIXUS

Plenary: General Session Keynote Talks: MAZAGAN



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## Detailed Program for the workshops and the main conference

### Monday, October 20, 2025

Time	Monday, October 20, 2025		
	Room 01	Room 02	Room 03
08:30 – 13:00	Registration		
09:00 – 10:30	ST1	ST2	ST3
10:30 – 11:00	Coffee Break		
11:00 – 11:30			
11:00 – 12:30	N2WOMEN Panel (Plenary)		
12:30 – 14:00	Lunch		
14:00 – 15:30	ST4	ST5	SP
15:30 – 16:00	Coffee Break		
16:00 – 17:30 (18:00)	ST6 (5)	ST7*	GE (6)
17:30 – 18:00	-	-	-
20:00	-	-	-



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9:00 - 10:30

**ST1: UAVs, Autonomous Vehicles & 6G** (Room 1)

**Chairs:** Giovanni Grieco (Piksel Srl, Italy & Politecnico di Bari, Italy), Arcangela Rago (Politecnico di Bari, Italy)

[Explainable Machine Learning for Environment-Aware Channel State Prediction in UAV-Based 6G Networks](#)

Ladan Gholami (University of Pisa & National Research Council (CNR), Italy); Pietro Ducange (University of Pisa, Italy); Arcangela Rago (Politecnico di Bari, Italy); Pietro Cassarà (National Research Council (CNR) at Pisa, Italy); Alberto Gotta (ISTI-CNR, Italy & CNIT, Italy)

[Adaptive Communication for Joint Trajectory and RRM in MADRL-Based UAV Networks](#)

Danila Ferretti (La Sapienza, University of Rome & WiLab, CNIT, Italy); Leonardo Spampinato, Enrico Testi and Chiara Buratti (University of Bologna, Italy); Riccardo Marini (CNIT, National Laboratory of Wireless Communications (WiLab), Italy)

[An Indoor Experimental Testbed for 5G-Based UAV Control and Communication](#)

Salvatore Carbonara, Daniele Pugliese, Enrico Boffetti, Fabrizio Greco and Barbara Didonna (Politecnico di Bari, Italy); Giovanni Grieco (Piksel Srl, Italy & Politecnico di Bari, Italy); Alessio Fascista and Luigi Alfredo Grieco (Politecnico di Bari, Italy)

[Enhancing Vehicular Communication with Predictive Quality of Service: A Real-World Proof of Concept](#)

Maroua Drissi (Orange Research, France)

**ST2: IoT Security & Intrusion Detection** (Room 2)

Chair: Habib M Ammari (Texas A&M International University, USA)

[A Feature-aware Adaptive Ensemble Framework for IoT Intrusion Detection Systems](#)

Youssef Laraig (University of Sherbrooke, Canada & National Institute of Posts and Telecommunications, Rabat, Morocco); Yann Ben Maissa (INPT, Morocco); Sebastien Roy (University of Sherbrooke, Canada); Pierre-Martin Tardif (Université de Sherbrooke, Canada); Brahim El Bhiri (Harmony Technologie, Morocco)

[A Scalable And Efficient Intrusion Detection System Based On A Shapley Value Driven Feature Selection](#)

Giovanni Rocca (University of Calabria (UNICAL), Italy); Mattia Giovanni Spina and Floriano De Rango (University of Calabria, Italy)



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[Secure Split and Classification Mechanism for LoRa Networks Against Active and Reactive Interference Attacks](#)

Dario O. Delgado, Floriano De Rango and Pasquale Pace (University of Calabria, Italy)

[Securing Connected and Autonomous Vehicles with Sliding Window-based False Information Tracing](#)

Abinash Borah and Anirudh Paranjothi (Oklahoma State University, USA)

**ST3: Federated & Distributed Learning** (Room 3)

**Chair:** Khalil Ibrahim (University of IBN Tofail, Morocco & Tofail University, Morocco)

[TCHIA-FedPer: An Edge Online Federated Learning and IoT Based for High Precision Smart Agriculture](#)

Fatoumata Y. Sokona (None, Mali); Tidiane Sylla (Université Gustave Eiffel, France & USTTB, Mali); Harouna Sangaré (LaMIA, USTTB, Mali); Yannis Formery (Gustave Eiffel University, France); Boureima Cissé (USTTB, Mali); Oumar Y. Maiga (LaMIA, USTTB, Mali)

[XFL-Q: Communication-Efficient Federated Learning with Layer-wise Quantization for IoT](#)

Rachid EL Mokadem (STRS Lab, National Institute of Posts and Telecommunications, Rabat, Morocco); Yann Ben Maissa (INPT, Morocco)

[Secure V2P Risk Prediction: A Decentralized Federated Deep Learning Approach](#)

Rihab Hmaied (InnovCom, Tunisia)

[AI-Driven Optimisation for Mobile Behavioural Biometrics Continuous Authentication](#)

Mustafa Al Samara (University of Haute-Alsace - IRIMAS, France & Joaan Bin Jassim Academy for Defence Studies, Qatar); Ismail Bennis (University of Haute Alsace, France); Marc Gilg (University of Haute-Alsace, France); Bouziane Brik (University of Sharjah, United Arab Emirates & University of Bourgogne, France); Abdelhafid Abouaissa (University of Haute Alsace, France)

**11:00 - 12:30**

**N2WOMEN Panel: AI/ML for the Next Generation Wireless Networks** (Room 1, Room 2, Room 3)

Panelists:

Prof. Carla Fabiana Chiasserini, Full Professor at Politecnico di Torino, Italy

Dr. Maroua Drissi, Researcher at Orange Labs Belfort, France

Dr. Giovanni Grieco, Independent Researcher collaborating with academic and government institutions

Prof. Chrysta Papagianni, Associate Professor at University of Amsterdam, Netherlands.



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Chairs: Francesca Meneghello (Northeastern University, USA), Arcangela Rago (Politecnico di Bari, Italy), Stefania Zinno (University of Naples Federico II, Italy)

*Abstract*

The panel, supported by Women in Communications Engineering (WICE), will explore how Artificial Intelligence and Machine Learning are reshaping the landscape of next-generation wireless networks. Key topics include AI-native 6G network architectures, the role of AI/ML in Non-Terrestrial Networks (NTNs), and emerging real-world use cases. Alongside these exciting technical frontiers, the session will feature inspiring stories from expert researchers with diverse backgrounds who are actively shaping the future of wireless communications and mobile networking. Their experiences will offer valuable insights and practical strategies for navigating and building a successful career in this fast-evolving field.

**14:00 - 15:30**

SP: WiMob-SPPDT'2025 (2025 WiMob Short Papers, Posters and Demos) ([Room 3](#))

Chair: Maroua Drissi (Orange Research, France)

[Federated Learning for Spectrum Sensing in THz Bands](#)

Omar Serghini and Salvatore Serrano (University of Messina, Italy); Asmaa Maali (Royal Naval School of Casablanca); Hayat Semlali (Laboratory of Electrical Systems, Energy Efficiency and Telecommunications Cadi Ayyad University Marrakesh, Morocco)

[Enhancing UAV Communication Security through HSM-based Cryptographic Key Protection](#)

Salah Dine Maham (Université de Technologie de Troyes (UTT), France); Guy Pujolle (Sorbonne University & Green Communications Company, France); Atiq Ahmed (Université de Technologie de Troyes, France); Dominique Gaïti (University of Technology of Troyes, France); Ali Remili (Université de Technologie de Troyes (UTT), France)

[A Reinforcement Learning Framework for Mobility Control of gNBs in Dynamic Radio Access Networks](#)

Pedro Duarte (INESC TEC, Portugal & Universidade do Porto, Portugal); André Coelho (INESC TEC, Portugal); Manuel Ricardo (Universidade do Porto & INESC TEC, Portugal)

**ST4: Wireless Sensor Networks & Spectrum** ([Room 1](#))

Chair: Saadi Boudjit (University of Rouen Normandy, France)

[Stochastic Connected k-Coverage in Planar Wireless Sensor Networks Using Optimal Hexagonal Tessellation](#)



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Kalyan Nakka (Texas A&M University - College Station, USA); Habib M Ammari (Texas A&M International University, USA)

[Comparative Analysis of KNN, RNG and K-RNG for Inter-Robot Communication](#)

Hazem Chaabi (Inria, France); Nathalie Mitton (Inria Lille - Nord Europe, France)

[SHOLO: Similarity-based Reduction Scheme for Efficient Data Transmission and Energy Saving in Multimedia Sensor Networks](#)

Fouad Al Tfaily (Lebanese University, Lebanon); Chady Abou Jaoude (Antonine University & TICKET Lab, Lebanon); Hassan Harb (American University of the Middle East, Kuwait); Hussein Hazimeh (Lebanese University, Lebanon & Al Maaref University, Lebanon); Hassan Kanj (American University of the Middle East, Kuwait)

[Enhanced Detection of Intermittent Primary User Signals for Cognitive Radio-IoT Networks with Markov-Chain Modeled BPSK](#)

Khadija Lahrouni (Cadi Ayyad University, Morocco & Nantes Université, Morocco); Hayat Semlali (Cadi Ayyad University, Morocco); Guillaume Andrieux and Jean-Francois F Diouris (Nantes Université & IETR Laboratory, France); Abdelilah Ghammaz (Cadi Ayyad University, Morocco)

**ST5: AI, Large Language Models & Cloud Trust** (Room 2)

Chair: Hayat Semlali (Université Cadi Ayyad, Morocco)

[A Multi-Agent Framework for Natural Language-Driven Network Simulation](#)

Alberto Salvatore Colletto, Paolo Bonelli Bassano and Alessio Viticchié (AlphaWaves Srl, Italy);  
Alessandro Aliberti (Politecnico di Torino, Italy)

[WiFiQnA: a WiFi Dataset for Large Language Models](#)

Anouar Zouhri (National Institute of Posts and Telecommunications, Morocco); Lynda Zitoune (L2S Paris Saclay University, France); Iyad Lahsen-Cherif (L'Institut National Des Postes et Télécommunications (INPT) Rabat, Morocco)

[Towards Secure and Transparent Cloud Auditing: A Blockchain and IPFS-Driven Framework with Batch Verification](#)

Houaida Ghanmi (University of Manouba & Sorbonne Paris North University, Tunisia); Hajlaoui Nasreddine (University of Gabes, Tunisia); Haifa Touati (Hattem Bettahar IReSCoMath Research Lab & Hattem Bettahar IReSCoMath Research Unit, Tunisia); Saadi Boudjit (University of Rouen Normandy, France); Mohamed Hadded (Abu Dhabi University,



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United Arab Emirates); Mohand Yazid Saidi (University of Paris 13, France); Paul Muhlethaler (INRIA, France)

[Leveraging Packet Aggregation to Optimise QoS and Energy Trade-offs in 5G/6G Optical Fronthaul Networks](#)

Godlove Suila Kuaban (Institute of Theoretical & Applied Informatics Polish Academy of Sciences, Poland); Tulin Atmaca (IMT/Telecom SudParis, France); Zeynep Turgut (Istanbul Medeniyet University, Turkey); Tadeusz Czachorski (Institute of Theoretical and Applied Informatics of Polish Academy of Sciences, Poland); Piotr Czekalski (Silesian University of Technology, Poland)

**16:00 - 18:00**

**AIMEH - WS: AI for Mobile & Wireless Health: Advancing Explainability in the Future of Healthcare** (Room 2)

Chairs: Giovanni Stanco (University of Napoli Federico II, Italy), Stefania Zinno (University of Naples Federico II, Italy)

[Your Health in the Mirror: A Critical Analysis of Health and Well-being Monitoring by Smart Mirrors](#)

Ana Patrícia Rocha (University of Aveiro, Portugal); Inês Águia, Pedro Carneiro, Rafael Pinto and Hugo Senra (IEETA, DETI, University of Aveiro & LASI, Portugal); Nuno Almeida (IEETA, Portugal); Samuel Silva (UA/IEETA, Portugal); Florinda Costa (University of Aveiro, Portugal); Antonio J. S. Teixeira (Universidade de Aveiro, Italy)

[Telemedicine for the Management of Nasal Obstruction: An Innovative Approach to Remote Monitoring](#)

Giorgia Panico and Emanuele Raso (University of Rome Tor Vergata, Italy); Lorenzo Bracciale (University of Roma "Tor Vergata", Italy); Francesco Bussu (Università di Sassari, Italy); Claudia Crescio and Davide Rizzo (University of Sassari, Italy); Pierpaolo Loreti (University of Rome Tor Vergata, Italy)

**AIMEH - WS: AI for Mobile & Wireless Health: Advancing Explainability in the Future of Healthcare** (Room 2)

Arcangela Rago, Politecnico di Bari, Italy

Chairs: Giovanni Stanco (University of Napoli Federico II, Italy), Stefania Zinno (University of Naples Federico II, Italy)



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[Inferring CAF-1/p60 Expression from Hematoxylin and Eosin Stained Images in Oral Squamous Cell Carcinoma](#)

Cristian Tommasino (University of Napoli Federico II, Italy); Cristiano Russo (UNINA, Italy); Angela Crispino, Stefania Staibano and Antonio M. Rinaldi (University of Naples Federico II, Italy); Francesco Merolla (University of Molise, Italy)

[Exploring Depression Severity During Lockdown Through Explainable AI](#)

Stefania Zinno and Sayna Rotbei (University of Naples Federico II, Italy); Giovanni Stanco (University of Napoli Federico II, Italy); Giorgio Ventre (University of Naples Federico II, Italy); Giordano Durso (Università degli Studi di Napoli Federico II, Italy); Alessio Botta (University of Napoli Federico II, Italy)

[Bridging the Gap: Integrating Heterogeneous Clinical Data into HL7 FHIR](#)

Teresa Conte (Consiglio Nazionale delle Ricerche, Italy); Nadia Brancati (ICAR-CNR, Italy); Martina Russo (Institute for High Performance Computing and Networking-National Research Council of Italy ICAR-CNR, Italy); Mario Sicuranza (Institute for High Performance Computing, ICAR-CNR, Italy)

**GenXNet'25: The 1st IEEE International Workshop on Generative and  
eXplainable Artificial Intelligence for Networking (GenXNet) (Room 3)**

Chair: Alfredo Nascita (University of Napoli Federico II, Italy)

[FlowPicClip: Improving Network Traffic Classification Using Language Supervision](#)

Daniel Shalev (Tel Aviv University, Israel); Yuval Shavitt (Tel-Aviv University, Israel); Tal Shapira (The Hebrew University of Jerusalem & Reco AI, Israel)

[Understanding What Federated Learning Models Learn: a Comparative Study with Traditional Models](#)

Rafael Gonçalves Teixeira (University of Aveiro, Portugal & Instituto de Telecomunicações, Portugal); Leonardo Almeida and Pedro Rodrigues (Instituto de Telecomunicações, Portugal); Julio Corona (University of Aveiro, Portugal & Instituto de Telecomunicações, Portugal); Mário Antunes (University of Aveiro, Portugal); Rui L Aguiar (University of Aveiro, Portugal & Instituto de Telecomunicações, Portugal)

[Towards Better-Calibrated ML Models for Reliable Network Intrusion Detection via Calibration-Aware SHAP-Based Feature Selection](#)

Hussein Fawaz (Università Della Svizzera Italiana, Switzerland & Scuola universitaria professionale della Svizzera italiana, Switzerland); Fatima Ezzeddine (Università Della Svizzera Italiana (USI), Switzerland & University of Applied Sciences and Arts of Southern Switzerland



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(SUPSI), Switzerland); Silvia Giordano (University of Applied Sciences and Arts of Southern Switzerland (SUPSI), Switzerland); Omran Ayoub (University of Applied Sciences of Southern Switzerland, Switzerland)

[Generative Explainability for Next-Generation Networks: LLM-Augmented XAI with Mutual Feature Interactions](#)

Kiarash Rezaei (Chalmers University of Technology, Sweden); Omran Ayoub (University of Applied Sciences of Southern Switzerland, Switzerland); Sebastian Troia (Politecnico di Milano, Italy); Francesco Lelli (Tilburg University, The Netherlands); Paolo Monti and Carlos Natalino (Chalmers University of Technology, Sweden)

[SG-VAE: Explainable Semi-Generative Model for Attack Detection in IoT Healthcare Systems](#)

Komal Ghafoor (Università degli Studi di Brescia, Italy); Furqan Rustam (University College Dublin, Ireland); Devis Bianchini (University of Brescia, Italy); Anca Delia Jurcut (University College Dublin, Ireland)

[Lightweight Fine-Tuning of LLMs for Explainable Intrusion Detection in SDN](#)

Suvajit Lodh (National College of Ireland, Ireland); Islam Obaidat (North Carolina Agricultural and Technical State University, USA); Furqan Rustam and Anca Delia Jurcut (University College Dublin, Ireland)

**ST6: Edge Computing & Resource Allocation** (Room 1)

Chair: Khalil Ibrahim (University of Ibn Tofail, Morocco & Tofail University, Morocco)

[Distributed Resource Allocation and Application Deployment in Mesh Edge Networks](#)

Antoine Bernard (Ecole Polytechnique de Montreal & Humanitas Solutions, Canada); Antoine Legrain (Polytechnique Montréal, Canada); Maroua Ben Attia (Humanitas Solutions, Canada); Abdo Shabah (HumanITas Solutions, Canada)

[From Measurement to Materials: Cost-Aware Right-Sizing of Multi-Tier Edge Computing Infrastructures](#)

Massamaesso Narouwa, Leo Mendiboure and Sassi Maaloul (Université Gustave Eiffel, France); Hakim Badis (University of Gustave Eiffel, France); Dereje Mechal Molla (Gustave Eiffel University & COSYS-LEOST, France); Marion Berbineau (COSYS, Université Gustave Eiffel, IFSTTAR, Univ Lille & Railenium, France); Rami Langar (Ecole de Technologie Supérieure de Montréal, Canada & University Gustave Eiffel, France)

[Distributed Hierarchical Slack-reduction in Slicing for railways FRMCS](#)



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David Kule Mukuhi (University Gustave Eiffel, CNRS, LIGM, France & SNCF, France); Leo Mendiboure (Université Gustave Eiffel, France); Rami Langar (Ecole de Technologie Supérieure de Montréal, Canada & University Gustave Eiffel, France); Rodrigue Fargeon (SNCF, France); Sylvain Cherrier (Université Gustave Eiffel, France); Marion Berbineau (COSYS, Université Gustave Eiffel, IFSTTAR, Univ Lille & Railenium, France); Pierre-Yves Petton (SNCF, France)

[Robust Resource Allocation in RSMA-based STAR-RIS-aided HAP Communication Networks with Imperfect SIC](#)

Zain Ali (HBKU Qatar, Qatar); Muhammad Asif (Jiangsu University, China); Saud Althunibat (Al-Hussein Bin Talal University, Jordan); Mazen Omar Hasna (Qatar University, Qatar); Khalid Qaraq (Hamad Bin Khalifa University, Qatar)

[IRS-Assisted DECT-2020 NR framework for Ensuring URLLC Constraints in Industrial IoT](#)

Awais Bin Asif, Hassan Ahmad and Jürgen Peissig (Leibniz Universität Hannover, Germany)



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Tuesday, October 21, 2025

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08:30 – 13:00	Registration	
09:00 – 10:30	W1	W4
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Opening Ceremony (Plenary)	
11:00 – 12:30	Keynote Speaker 1: (Plenary)	
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20:00	Conference Banquet	



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**9:00 - 10:30**

**W1: AI for Intrusion Detection and Threat Mitigation** (Room 1)

Chair: Isaac Woungang (Toronto Metropolitan University, Canada)

[Flow-Based Anomaly Intrusion Detection Systems using Recurrent Neural Networks](#)

Hafiz Yasir Noor and Isaac Woungang (Toronto Metropolitan University, Canada); Glaucio Carvalho (Brock University, Canada); Issa Traore (University of Victoria, Canada); Hai Thanh Dao (RMIT University Vietnam, Vietnam)

[Improving Trust and Detecting Malicious Data Sharing in SDN Data Plane Communications using Lightweight Deep Learning](#)

Brahim Anegdouil (UIR Université Internationale de Rabat, Morocco); Anass Sebbar, Othmane Cherqi and Mohammed Boulmalf (International University of Rabat, Morocco)

[Unseen Attacks Identification in Intrusion Systems Using BERT and Logit Normalization](#)

Frederic Adjewa (University of Technology of Troyes, France); Moez Esseghir (Université de Technologie de Troyes, France); Leila Boulahia (University of Technology of Troyes, France); Cheikh Kacfeh (Institut Saint Jean, Cameroon)

[Enhanced Adversarial Domain Adaptation for Intrusion Detection Systems](#)

Ines Guerziz (INRS-University of Quebec, Canada & UMR, Canada); Zakaria Abou El Houda (INRS, Canada); Le Bao Long (University of Québec, Canada)

**9:30 - 10:30**

**W4: Vehicular Networks and Platooning** (Room 2)

Chair: Nidal Nasser (Alfaisal University, Saudi Arabia)

[Integrated UWB and LIDAR Assisted Localization and Navigation System for Automated Platooning](#)

Tushar Dupga (Indian Institute of Technology, Kanpur, India); Ashutosh Deshwal, Sudiksha Navik and Amitangshu Pal (Indian Institute of Technology Kanpur, India)

[Secure Group Key Dissemination Protocol in Cooperative Vehicular Platooning](#)

Farah-Emma Braiteh (LTCI, Télécom Paris, Institut Polytechnique de Paris, France & Renault Group, France); Francesca Bassi (IRT, France); Rida Khatoun (Telecom Paris, France)

[An enhanced authentication solution for infrastructureless vehicle environments](#)



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Marwa Slimene (Inria Lille, France & IMT Nord Europe, France); Nathalie Mitton (Inria Lille - Nord Europe, France); Patrick Sondi and Ahmed Meddahi (IMT Nord Europe, France)

[A Meta Learning Framework for Intrusion Detection in Connected Vehicles](#)

Okba Ben Atia (University of Technology of Belfort-Montbéliard, France); Mustafa Al Samara (University of Haute-Alsace - IRIMAS, France & Joaan Bin Jassim Academy for Defence Studies, Qatar); Ismail Bennis (University of Haute Alsace, France)

**11:00 - 11:30**

**OP: WiMob 2025 Opening Ceremony** (*Room 1, Room 2, Room 3*)

Chairs: Abderrahim Benslimane (University of Avignon & LIA/CERI, France), Samuel Pierre (Ecole Polytechnique de Montreal, Canada)

**11:30 - 12:30**

**Keynote 1: Bridging Communication and Edge Intelligence through Machine Learning** (*Room 1, Room 2, Room 3*)

Dr. Carla Fabiana Chiasserini, Politecnico di Torino, Italy

Chair: Samuel Pierre (Ecole Polytechnique de Montreal, Canada)

*Abstract*

As the amount of data generated by edge devices continue to increase, traditional models of centralized processing are no longer sufficient. This keynote explores how Machine Learning (ML) can be leveraged to jointly address the challenges of data communication and edge computing, enabling a new paradigm of distributed intelligence. We will discuss how ML techniques can help select which data should be transferred and determine how data should be transmitted over the radio link, while supporting real-time data fusion and decision-making at the network edge. Addressing resource allocation and adaptive compression, the talk will highlight how integrating ML into edge devices as well as into the fabric of edge networks allows for more resilient, efficient, and context-aware systems. The keynote will also discuss open research questions and the importance of a unified approach to data communications and computing toward scalable edge intelligence.

*Biography*

Dr. Carla Fabiana Chiasserini ; Full Professor at Politecnico di Torino, Italy, and a Research Associate with the Italian National Research Council (CNR) and the National Inter-University



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Consortium for Telecommunications(CNIT). She is also a WASP Guest Professor at Chalmers Institute of Technology, Sweden. She was a Visiting Researcher at UC San Diego (1998-2003), and a Visiting Professor at Monash University (2012, 2016), the Berlin Technische Universität (2021,2022), and the HPI, Potsdam University (Mercato Fellow, 2023and 2024). She is an IEEE Fellow and an ACMFellow. She is the director of the Advanced Wireless Experience (AWE) Lab at Politecnico di Torino. Her research interestsinclude Next-generation MobileNetworks, Edge Computing, Machine Learning, andMobile Autonomous Systems. She has published over 350 journal andconference papersandhas received several awards for her scientific work. She serves as ViceEditor-in-Chief of Computer Communicationsand as Editor-at-Large of the IEEE/ACM Transactions on Networking.

**14:00 - 15:30**

**W2: Federated and Distributed Learning for IoT and Mobile Systems (Room 1)**

Chair: Isaac Woungang (Toronto Metropolitan University, Canada)

[Distributed Task Offloading Using Federated Reinforcement Learning in VEC](#)

Namory Fofana (SUP'COM Tunis, Tunisia); Wiem Fekih Hassen (University of Passau, Germany); Asma Ben Letaifa (SupCom, Tunisia); Abderrezak Rachedi (University Gustave Eiffel, France)

[A Communication-efficient Federated Learning Approach for Intrusion Detection in IoT](#)

Oumaima Ennasri and Manal Abbassi (National Institute of Posts and Telecommunications, STRS Lab, Morocco); Yann Ben Maissa (INPT, Morocco); Rachid EL Mokadem (STRS Lab, National Institute of Posts and Telecommunications, Rabat, Morocco)

[Decentralized Tiny Ensemble Learning for Privacy-Preserving Compliance Prediction in Operating Room Environments](#)

Imane Abrya and Safae Bouhaddou (INPT National Institute of Posts and Telecommunications, Morocco); Meryeme Ayache (National Institute of Posts and Telecommunications - INPT & STRS Lab, RAISS Team, Morocco); Nidal Nasser (Alfaisal University, Saudi Arabia); Amal Bouayad (ENSIAS, Morocco)

[Stability-Driven Quantization-Aware Training for Low-Bit Models](#)

Du Tran Ngoc, Quang Le Hoang Minh and Thang Nguyen Minh (Viettel Group, Vietnam); Trung Dong (Viettel Research & Development Institute, Vietnam)

**W5: Next-Generation Mobile Networking and O-RAN (Room 2)**

Chair: Leila Boulahia (University of Technology of Troyes, France)



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[Design and Evaluation of an Orchestrated E2E Cloud-Native Mobile Network with O-RAN](#)

Jorge Baranda (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC/CERCA), Spain); Albert Bel (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Sergio Barrachina-Muñoz (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Miquel Payaró (CTTC, Spain); Josep Mangués-Bafalluy (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)

[A Novel Routing Protocol for MANET-Based Smart Indoor Environments](#)

Naazim Ali Khan (Technical University of Munich, Germany & Huawei, Germany); Zhe Lou (Huawei Technologies European Research Center, Germany); Alba Jano (Technical University of Munich, Germany); Wolfgang Kellerer (Technische Universität München, Germany)

[Evaluating Bi-directional Connectionless BLE for Bike-to-Everything Wireless Communications](#)

Pedro Henrique Wo de Alcantara (University of Twente, The Netherlands); Khalil Ben Fredj, Geert Heijenk and Yanqiu Huang (University of Twente, The Netherlands)

[ORCHID: Tessellation-Based Cylindrical Deployment Protocol for Energy-Efficient Coverage in Three-dimensional Wireless Sensor Networks](#)

David W. Starr (University of Florida, USA); Habib M Ammari (Texas A&M International University, USA)

**16:00 - 17:30**

**W3: UAV and Drone Security and Localization** (Room 1)

Chairs: Stefania Zinno (University of Naples Federico II, Italy)

[Enhancing UAV Swarm Security through an RSSI-based Protocol for GNSS-Compromised Environments](#)

Mauro Conti and Federico Corò (University of Padova, Italy); Giulio Rigoni (Sapienza, University of Rome, Italy)

[SPARKS: A Serverless Protocol for Authentication and Resilient Key Sharing in UAV Networks](#)

Timothé Pitault (ENSEIRB-MATMECA, Bordeaux INP, France); Mauro Conti and Federico Corò (University of Padova, Italy)

[Indoor Drone Propeller Speed Estimation Using Wi-Fi Channel State Information](#)

Yuta Takao (The University of Osaka, Japan); Viktor T. Erdelyi (The University of Osaka & RIKEN Center for Computational Science, Japan); Kazuya Ohara (NTT, Japan); Yasue Kishino



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(NTT Communication Science Labs, Japan); Van Ho (Japan Advanced Institute of Science and Technology, Japan); Akira Uchiyama (The University of Osaka, Japan)

[Zero-day GPS Attack Detection and Classification in UAV Networks](#)

Seyyede Maryam Mazloom and Wei-Ping Zhu (Concordia University, Canada); Wessam Ajib (Université du Québec à Montréal, Canada)

**W6: AI-Driven Health and IoT Applications** (Room 2)

Chair: Samuel Pierre (Ecole Polytechnique de Montreal, Canada)

[Dilated Causal CNNs for Energy Forecasting and Optimization in LoRaWAN Networks](#)

Sana Slama (University of Monastir, Tunisia); Aida Lahouij (ISIMM University of Monastir & Polytechnique Sousse, Tunisia); Lazhar Hamel (University of Monastir & ISIMM, France); Mohamed Graiet (ISIMM Monastir University, Tunisia); Walid Gaaloul (Telecom SudParis, Samovar, France & Telecom SudParis, France)

[Generative-AI based Health Management System for CKD Patients](#)

Ya-Wen Chuang, Yu-Tsung Cheng and Tung-Min Yu (Taichung Veterans General Hospital, Taiwan); Ren-Chuan Chang and Der-Jiunn Deng (National Changhua University of Education, Taiwan); Hui-Hsin Chin (Overseas Chinese University, Taiwan)

[Adaptive Mobility Control in LoRaWAN via Reinforcement Learning](#)

August Falck Valentin, Simon Kristoffer Janum, Fabian Fernando Jurado Lasso, Xenofon Fafoutis and Charalampos Orfanidis (Technical University of Denmark, Denmark)

[NA-AEKF: A NLOS-Aware Adaptive Extended Kalman Filter for robust indoor localization](#)

Moussa Taha and Olivier Berder (Univ Rennes, CNRS, IRISA, France); Antoine Courtay (University of Rennes 1, France); Mickaël Le Gentil (University of Rennes 1 / IRISA, France)

**Evening: 20:00 — Conference Banquet.**



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Wednesday, October 22, 2025

Time	Wednesday, October 22, 2025	
	Room 01	Room 02
08:30 – 13:00	Registration	
09:00 – 10:30	W7	W10
10:30 – 11:00	Coffee Break	
11:00 – 11:30	Free session	
11:00 – 12:30	Keynote Speaker 2: (Plenary)	
12:30 – 14:00	Lunch	
14:00 – 15:30	W8	W11
15:30 – 16:00	Coffee Break	
16:00 – 17:30 (18:00)	W9	W12
17:30 – 18:00	Closing Remarks	
20:00	-	-



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9:00 - 10:30

**W10: Resource Allocation and Offloading in MEC and 6G** (Room 2)

Chair: Saadi Boudjit (University of Rouen Normandy, France)

[Cooperative MEC-enabled HAPS and UAV-RIS Assisted Task Offloading in ITS Systems](#)

Insaf Rzig (Sup'Com Tunis, Tunisia); Wael Jaafar (École de Technologie Supérieure, Canada);  
Maha Jebalia (SUP'COM, Tunisia); Sami Tabbane (SupCom, Tunisia)

[Energy Budget Distribution in Mobile Edge Computing Applications](#)

Khadija Akherfi (Technical University of Munich, Germany); Michael Gerndt (Technische  
Universität München, Germany)

[Joint Optimization of Task Offloading and Multicast Transmission Scheduling in MEC Networks](#)

Ismael Bagayoko, Gael S. Mubibya and Elmahdi Driouch (Université du Québec à Montréal,  
Canada)

[A RAG-assisted DRL Framework for Microservices Deployment in 6G vehicular Networks](#)

Daniel Ayepah-Mensah and Amine Kidane Ghebreziabiher (Khalifa University, United Arab  
Emirates); Gordon Owusu Boateng (University of Electronic Science and Technology of China  
(UESTC), China); Rabeb Mizouni (Khalifa University, United Arab Emirates); Azzam Mourad  
(Lebanese American University, Lebanon); Hadi Otrouk and Jamal Bentahar (Khalifa University,  
United Arab Emirates & Concordia University, Canada); Sami Muhaidat (Khalifa University,  
United Arab Emirates)

**W7: Blockchain and Decentralized Systems** (Room 1)

Chair: Isaac Woungang (Toronto Metropolitan University, Canada)

[ReLEARN: Reinforcement Learning Enhanced Profitable Rebalancing in Payment Channel Networks](#)

Shruti Mishra (IIT Ropar, India); Mohit Bhuria, Hitesh Singla and Sujata Pal (Indian Institute of  
Technology Ropar, India); Isaac Woungang (Toronto Metropolitan University, Canada)

[Multi-party Consensus-based Blockchain for Chain of Custody in IoT Forensic Investigations](#)

Riccardo Pezzoni (Politecnico di Milano, Spain); Antonio Boiano, Fabio Palmese and  
Alessandro E. C. Redondi (Politecnico di Milano, Italy)

[Security-Oriented Load Distribution in MQTTv5: A Token Bucket and Trust Evaluation Approach](#)

Mattia Giovanni Spina, Graziano Rizzo and Floriano De Rango (University of Calabria, Italy)



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[Decentralized Oracles with Threshold Signatures: A Discrete Public Goods Game Model](#)

Boutaina Jebari (University of Ibn Tofail, Morocco); Khalil Ibrahimi (University of Ibn Tofail, Morocco & Tofail University, Morocco); Mounir Ghogho (University Mohammed VI Polytechnic, Morocco & University of Leeds, United Kingdom (Great Britain))

**11:30 - 12:30**

**Keynote 2: View on 6G from Nokia and European Flagship Hexa-X-II** (*Room 1, Room 2, Room 3*)

Dr. Mikko Uusitalo, Nokia Bell Labs, Finland

Chair: Abderrahim Benslimane (University of Avignon & LIA/CERI, France)

*Abstract*

The next generation of cellular technology 6G has been under research for many years and has now entered the initial stage of technical specifications at 3GPP. The combination of new services, device expansion and surge in AI usage are fueling data traffic growth. This challenge needs to be addressed in a sustainable way, from point of view of environmental, social and economic sustainability. This presentation will give an overview of the current status with 6G.

*Biography*

Mikko Uusitalo is Head of Research Department Radio Systems Research Finland at Nokia Bell Labs and Nokia Bell Labs Finland Site Lead. Mikko is the Chair of the Board of the Nokia Foundation. Mikko has been leading the European 6G Flagship project Hexa-X-II and was leading Hexa-X. He obtained a M.Sc. (Eng.) and Dr.Tech. in 1993 and 1997 and a B.Sc. (Economics) in 2003, all from predecessors of Aalto University. Mikko has been at Nokia since 2000 with various roles, including Principal Researcher and Head of International Cooperation at Nokia Research. Mikko is a founding member of the CELTIC EUREKA and WWRF, the latter one he chaired for 2004-2006. Mikko is a WWRF Fellow. In 2020 Mikko received the Cross of Merit of the Order of White Rose from the President of Finland. Mikko has and has had numerous board and advisory positions in many important groups in the industry, academia or government side.



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14:00 - 15:30

**W11: Advanced Wireless Communication Techniques** (Room 2)

Chair: Wessam Ajib (Université du Québec à Montréal, Canada)

[MAC-Layer Protocol for Ultra-Reliable Multi-Hop Communication in DECT-2020 NR IIoT Networks](#)

Hassan Ahmad, Awais Bin Asif, Jürgen Peissig and Alexander Poets (Leibniz Universität Hannover, Germany)

[SPARK: A Kripke-Based Formal Analysis of the SN-MPR Routing Protocol in Wireless Sensor Networks](#)

Souad Marir (USTHB & MOVEP Laboratory, Algeria); Hind Laouici and Walid Guenounou (USTHB, Algeria); Saadi Boudjit (University of Rouen Normandy, France)

[Comparative Study of Packet Loss Models for Flooding Protocols in Dense Wireless Networks](#)

Joseph Fares (TICKET Lab, Antonine University, Hadat-Baabda, Lebanon); Eugen Dedu (Université Marie et Louis Pasteur, CNRS, institut FEMTO-ST, France); Jad Nassar (Antonine University & TICKET Lab, Lebanon); Abdallah Makhoul (University of Franche-Comté, France & FEMTO-ST, France)

[Subcarrier and Resource Allocation in Aerial Intelligent Reflecting Surface-Assisted Wireless Networks](#)

Ahmad Kasaeyan (Concordia University, Canada); Nguyen Minh Dat (Université du Québec à Montréal, Canada); Wei-Ping Zhu (Concordia University, Canada); Wessam Ajib (Université du Québec à Montréal, Canada)

**W8: Privacy and Trust in Mobile and Wearable Systems** (Room 1)

Chair: Giulio Rigoni (Sapienza, University of Rome, Italy)

[Detecting Privacy Non-Compliance in Wearable Apps via Knowledge Graphs and LLMs](#)

Lam Tran Thanh Nguyen, Barbara Carminati and Elena Ferrari (University of Insubria, Italy)

[Privacy-Enhanced Secure Neighbor Discovery for Wireless Networks](#)

Ahmed Mohamed Hussain (KTH Royal Institute of Technology, Sweden); Panagiotis Papadimitratos (KTH, Sweden)

[Model-Agnostic Poisoning Attacks on Recommender Systems via PPO](#)

Vincenzo Agate, Giuseppe Lo Re, Marco Morana and Antonio Virga (University of Palermo, Italy)

[ForensicsData: a Digital Forensics Dataset for Large Language Models](#)



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Youssef Chakir (National Institute of Posts and Telecommunications, Morocco); Iyad Lahsen-Cherif (L'Institut National Des Postes et Télécommunications (INPT) Rabat, Morocco)

**16:00 - 17:30**

**W12: Adversarial Robustness and Meta-Learning in Security** (Room 2)

Chair: Samuel Pierre (Ecole Polytechnique de Montreal, Canada)

[Enhancing IoT Security: A Meta-Learning Approach to Adversarial Robustness](#)

Zil E Huma and Sana Ullah Jan (Edinburgh Napier University, United Kingdom (Great Britain)); Jawad Ahmad (Prince Mohammad Bin Fahd University, Saudi Arabia); Bill Buchanan (Edinburgh Napier University, United Kingdom (Great Britain)); Nikolaos Pitropakis (The American College of Greece, Greece)

[Integrating Ground Communication for Extended Drone Visual Line of Sight](#)

Francesco Betti Sorbelli, Sajjad Ghobadi, Lorenzo Palazzetti and Cristina M. Pinotti (University of Perugia, Italy)

[Fairness-Aware Secure Communication in ISAC Systems with STAR-RIS and RSMA](#)

Thanh-Nha To (Ho Chi Minh City University of Technology (HCMUT-VNU), Vietnam & Viettel High Technology Industries Corporation, Vietnam); Hoang-Lai Pham and Quynh Nguyen Thi (Viettel High Technology Industries Corporation, Vietnam); Tuan Anh Pham (Viettel High Technology Industries Corporation - VHT, Vietnam); Le Thanh Bang (Viettel, Vietnam)

**W9: AI for Wireless Communications and Signal Processing** (Room 1)

Chair: Abderrahim Benslimane (Avignon University, France)

[A Rendez-Vous in Time: Frequency-Domain Precoding for LoS Alignment in Distributed MISO](#)

Thibaut Rolland (Orange, France); Matthieu Crussière (Univ Rennes, INSA Rennes, CNRS, IETR, France); Marie Le Bot (Orange Labs, France)

[Expert Fusion with Meta-Adaptation for Signal Technology Recognition](#)

Ife Olalekan Ebo (LISITE Isep, France); Idowu Iseoluwa Ajayi and Lina Mroueh (Institut Supérieur d'Electronique de Paris, France); Youmni Ziade (L'Agence Nationale des Fréquences (ANFR), France)

[A Design of High-Order APSK Constellations With PAPR Constraints for Single-Carrier BICM Systems](#)

Eito Kurihara and Hideki Ochiai (The University of Osaka, Japan)

[Inverted BER Trends for Energy-Detected GRSM-MQAM Massive MIMO Downlink](#)



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Oshin Daoud (Centrale Supélec, France); Haifa Farès (Centrale Supélec, France); Yahia Medjahdi (IMT Nord Europe, France); Laurent Clavier (Institut Mines-Telecom, IMT Nord Europe, France); Amor Nafkha (CentraleSupélec, France)

**Closing:** 17:30 – 18:00 — Closing Remarks.



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