

# Day 1 • 17 June 2026

Time	Session/Track Name	Paper Code	Paper Title	Authors
09:20–10:20	Keynote 1		Open 6G: Toward Self-Synthesizing Autonomous NextG Networks	Tommaso Melodia
10:20–10:30	5G/6G communication networks – Session 1	1571257952	Spatial Upper Bound of Radiated Power in Active Antenna Systems	Dominique Nussbaum, Christ Rizk, Florian Kaltenberger, Eric Seguenot, Alessandro Sinicco, Andrea Moro, Laura Pometcu
10:30–10:40		1571264857	From Sensor to Decision: Building an Energy-Aware, AI-Driven IoT Data Pipeline Using a Three-Tier Architecture	Fatima Rani, Pit Hofmann, Juan A. Cabrera, Frank H.P. Fitzek
10:40–10:50		1571265292	Age of Information of Localized Tasks via Crowdsourcing: A Game-Theoretic Analysis	Antonio Tangaro, Nunzio Borra, Leonardo Badia
10:50–11:00		1571269769	Unlocking the Bidirectional Smart Charging Potential of Corporate EV Fleets via 5G-Enabled Robotics	Shiwei Shen, Syed Irtaza Haider, Razan Habeeb, Rico Radeke, Frank H.P. Fitzek
11:00–11:10		1571271305	Experimental Testbed for Outdoor Wireless Communication Using Leaky Coaxial Cables	Hefdhallah Sakran, Charbel Lahoud, Klaus Mößner
11:10–11:20		1571271829	Energy Efficient Downlink mMIMO Using Dynamic Antenna and Power Adaptation	Ravi Sharan Bhagavathula, Maliha Jada, Anders Karstensen, Daniela Laselva, Jyri Hämmäläinen, Silvio Mandelli
11:20–11:50		Morning coffee break		
11:50–12:00	5G/6G communication networks – Session 1	1571272294	Edge-Native Data Mesh for Real-Time Tactical Deconfliction in 5G-Advanced U-Space Traffic Management	Shreeja Sridharan, Jiajing Zhang, Stanislav Mudriievskiyi, Frank H.P. Fitzek
12:00–12:10	Joint Communications and Sensing in Wireless Systems	1571268812	Generalization-Aware People Counting in Heterogeneous Indoor Environments Using mmWave Delay-Doppler Radar and Temporal Learning	Malek Ali, Roman Marsalek
12:10–12:20		1571269680	MULTI-FI: Enhancing Wi-Fi Sensing Accuracy via Multi-View and Context Fusion	Iñaki Bravo, Claudio Fiandrino
12:20–12:30		1571270003	Impact of Antenna Pattern Mismatch on Localization Accuracy of mmWave ISAC System	Ekaterina Sedunova, Markus Petri, Eckhard Grass
12:30–12:40		1571271223	A Hybrid Phase-Based Ranging and Ultra-Wideband Positioning System	Marco Gunia, Frank Ellinger
12:40–12:50		1571272046	Performance Analysis of Extended Kalman Filter and Particle Filter for Hybrid TDoA/AoA-Based Localization	Ramya Vasist, Vladica Sark, Nebojsa Maletic, Jesús Gutiérrez, Eckhard Grass
12:50–13:00		1571272147	Convergence Analysis of CCETDE for Time Delay Tracking Under Carrier Frequency Offsets	Constantin Wimmer, Marco Krondorf
13:00–14:30		Lunch break		
14:30–14:40	Joint Communications and Sensing in Wireless Systems	1571277760	PRAC-LoRa: Packet Recovery for LoRa Networks	Husam O. A. Mohamed, Hosein Kangavar Nazari, Josef Gudnason, Christian Scheunert, Frank H.P. Fitzek

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14:40–14:50	Joint Communications and Sensing in Wireless Systems	1571279425	Fast Avalanche Search and Rescue Using LoRa Signal Dynamics and Deep Learning	Annalisa Maggini, Alexander Kocian, Stefano Chessa, Michele Girolami
14:50–15:00		1571280562	Challenges of Thermo-Optically Reconfigurable Photonic Processors for Optical Communication Systems	Igor Litvin, Gökhan Elmas, Janis Nötzel
15:00–15:10		1571280730	Experimental Performance Comparison of OTFS and WLAN OFDM-PHY Using SDR	Muhammad Nauman, Lukasz Lopacinski, Nebojsa Maletic, Pukar Shakya, Milos Krstic, Eckhard Grass
15:10–15:20	In-Network Computing	1571270910	Peak-Aware Deep Learning for Edge-Based Power Demand Forecasting in Energy-Intensive Infrastructures	Razan Habeeb, Mahdi Attawna, Shiwei Shen, Syed Irtaza Haider, Rico Radeke, Frank H.P. Fitzek
15:20–15:30		1571278142	Enhancing SDVN Performance via Policy-Driven Lightweight Control-Plane Resizing Strategies	Muhammad Zain Ul Abideen, Prathapasinghe Dharmawansa, Nurul Huda Mahmood, Chafika Benzaid
15:30–15:40		1571281169	Weighted Round Robin Scheduler in SWIPT-Enabled Fog Topology	Irfan Arabaci, Hans Dermot Doran, Mehmet Akif Yazıcı
15:40–15:50		1571281343	ADORN: Adaptive Drift Handling for Open RAN Using Reinforcement Learning	Ashit Kumar Subudhi, Bhargav Chirumamilla, Shubham Vaishnav, Mduduzi C. Hlophe, Praveen Kumar Donta, Andrea Fumagalli, Gudepu Venkateswarlu, Koteswararao Kondepu
15:50–16:20	Afternoon coffee break			
16:20–16:30	Quantum Communication Networks	1571271253	Opportunistic QKD: Exploiting Idle Capacity of Classical WDM Systems	Sumit Chaudhary, Pere Munar-Vallespir, Alonso Viladomat Jasso, Janis Nötzel
16:30–16:40		1571272097	Quantum-Native Full-Wave Electromagnetic Modelling for Future Wireless Systems	Devleena Kashyap, Gabriele Gradoni
16:40–16:50		1571272242	Mathematical Tools for Quantifying Resilience in Quantum Communication Networks for 6G	Vignesh Raman, Riccardo Bassoli, Frank H.P. Fitzek
16:50–17:00		1571272254	Two-Qubit Implementation of QAOA for MAX-CUT on an NV-Center Quantum Processor	Leon E. Röscher, Talía L. M. Lezama, Luca Cimino, Jonah vom Hofe, Riccardo Bassoli, Frank H.P. Fitzek
17:00–17:10		1571276912	Restricted Energy Accounting of Delivered Entanglement in NV-Center Repeater Chains: Exact Single-Hop Dynamics and Reduced-Order Multi-Hop Scaling	Sakineh Ghaderi, Talía L. M. Lezama, Bassem Arar, Muhammad Idham Habibie, Riccardo Bassoli, Frank H.P. Fitzek
17:10–17:20		1571278756	Energy-Efficient Satellite Wake-Up via Bosonic Identification: The Role of Synchronization	Gökhan Elmas, Janis Nötzel
17:20	End of day			
19:30	Welcome Cocktail	Darsena Sunset Bar, Viale Ortigara, 78/80, 47921 Rimini RN, Italy <a href="#">Maps Link</a>		

## Day 2 • 18 June 2026

Time	Session/Track Name	Paper Code	Paper Title	Authors
09:20–10:20	Keynote 2		Quantum Communication research at Deutsche Telekom	Marc Geitz
10:20–10:30	5G/6G communication networks – Session 2	1571278474	Semantic Communication Robustness Under Imperfect Channel State Information	Matheus Valente da Silva, Emilio Calvanese Strinati
10:30–10:40		1571272330	Multi-Criteria Next-Hop Selection Methods in DECT-2020 NR	Yasinta Rumesih, Mika Lasanen, Mikko Majanen, Mirza Alam, Juho Pirskanen
10:40–10:50		1571275311	Impact of Spatial-Temporal Discretization on Achievable Data Rate in Optical Wireless and Radio Frequency Communications	Mohammad Khalili, Marcos Katz, Konstantin Mikhaylov
10:50–11:00		1571276371	Deep Learning-Based Physical Layer Authentication Using 5G NR Sounding Reference Signals: A Temporal Generalization Study on Real Testbed Data	Sachinkumar B Mallikarjun, Marvin Reski, Harshith M Ramachandra, Andreas Weinand, Hans D. Schotten
11:00–11:10		1571277649	Impact of Background Traffic Diversity on Multi-Connectivity Scheduling in Time-Sensitive Wi-Fi Networks for Reliable Communication	Prince Jose, Marie-Theres Suer, Lars C Wolf
11:10–11:20		1571277771	NTN Services for Space Users Through Dual Layer Constellations	Mauro De Sanctis, Mansoor Jamal, Ernestina Cianca, Tommaso Rossi, Francesco Menzione
11:20–11:50		Morning coffee break		
11:50–12:00	5G/6G communication networks – Session 2	1571277851	Deep Reinforcement Learning for QoS-Guaranteed Wi-Fi Slicing	Ferdinando Marrone, Pasquale Imputato, Stefano Avallone, Jing Zhu
12:00–12:10		1571278550	GPU-Accelerated Post-Quantum Cryptography in Converged Open RAN	Majid K, Emilio Paolini, Luca Valcarenghi, Koteswararao Kondepu
12:10–12:20		1571257584	Vehicle-to-Grid as a 5G Smart Grid Vertical: Non-Technical Barriers and Implications for Communication Networks	Shangqing Wang, Laura del Río Carazo, Frank H.P. Fitzek
12:20–12:30		Post-Shannon and Semantic Communications	1571259606	Quantitative Analysis of Energy Consumption for Identification Codes on Embedded Devices
12:30–12:40	1571263387		Metric-Driven Reliability and Error Performance Evaluation of K-Identification Systems	Shubham Mahajan, Sheikh Usman Ali, Juan A. Cabrera, Pit Hofmann, Frank H.P. Fitzek
12:40–12:50	1571271323		Simplified Achievability Scheme for Deterministic Identification over Gaussian Channels	Pau Colomer, Christian Deppe, Holger Boche, Andreas Winter
12:50–13:00	1571271753		Reducing $\tau$ -Selection Uncertainty in Graph Coloring-Based Functional Compression	Zhihan Xu, Juan A. Cabrera, Frank H.P. Fitzek
13:00–14:30	Lunch break			
14:30–14:40	Post-Shannon and Semantic Communications	1571277444	Secure Randomized Identification with Feedback and Sensing over State-Dependent Wiretap Channels	Vida Gholamian, Yaning Zhao, Christian Deppe, Holger Boche, Rafael F. Schaefer

Time	Session/Track Name	Paper Code	Paper Title	Authors
14:40–14:50	Keynote Panel			
14:50–15:00			Giacomo Bernini (Nextworks)	
15:00–15:10			Enrico Buracchini (TIM)	
15:10–15:20			Emilio Calvanese Strinati (CEA-Leti)	
15:20–15:30			Ming Yin (Deutsche Telekom)	
15:30–15:40				
15:40–16:20	Afternoon coffee break			
16:20–16:30	Molecular Communications	1571265455	Neural Network-Based Estimation of the Number of Injected Molecules in Branched Molecular Communication Systems	Cristian J. Milidoni, Martín Schottlender, Ricardo A. Veiga, Maximilian Schäfer, Pit Hofmann, Frank H.P. Fitzek
16:30–16:40	NTN and Space Networks	1571264775	Drone Height Estimation from 5G Signals	Enrique Caballero, Aymen Fakr-eddine, Christian Bettstetter
16:40–16:50		1571269239	Real-World Experimentation of IoT-NTN on Board a Flying UAV for Reliable Aerial Connectivity	Aygün Baltacı, Jean Casagrande, Alireza Haqiqatnejad, Prasanna Balasubramanian Nagarajan, Omar Qaise, Dominic A. Schupke
16:50–17:00		1571271940	Deep Learning-Based UAV Detection for Precision Search and Rescue Operations	Saud Alhajaj Aldossari, Abdullah Al Soyan, Faleh Ali Al Dosari, Mohammed Al Hakami
17:00–17:10		1571278750	S-Band Satellite Constellation Design for Broadband Direct-to-Device Services	Anastasia Yastrebova-Castillo, Mikko Majanen
17:20	End of day			
19:00	Gala Dinner*	Ristorante La Rocca, Via Rocca, 46, 47826 Verucchio RN, Italy* <a href="#">Maps Link</a>		

\*A shuttle bus transfer will be provided, departing from:  
University of Bologna – Rimini Campus  
Via Angherà 22, Rimini

## Day 3 • 19 June 2026

Time	Session/Track Name	Paper Code	Paper Title	Authors
09:20–10:20	Keynote 3		Connecting the Unconnected Sky	Mauro De Sanctis
10:20–10:30	5G/6G Communication Networks – Session 3	1571277831	Minimize Spilled Harvested Energy in Finite Battery Energy Neutral Internet of Things	Antonio Mario Caruso, Stefano Chessa, Soledad Escolar, Melisa Kuzman
10:30–10:40		1571278628	Performance Analysis of LoRa and LR-FHSS in 3GPP LEO Satellite and HAPS Channel Scenarios for IoT Coverage	Jean Michel S Sant'Ana, Nurul Huda Mahmood, Vinicius Pozzobon Borin
10:40–10:50		1571278710	DQN-Based Resource Allocation at Edge Servers for Hosting Cross-Operator UPF Instances	Neha R Pudakalakatti, Vinay M Talageri, Vijeth J Kotagi
10:50–11:00		1571278749	Federated Deep Q-Network Framework for Radio Resource Allocation in Multi-Operator Cellular Networks	Vijeth J Kotagi, Manish Bisht, Neha R Pudakalakatti
11:00–11:10		1571279081	Beyond Average Latency: Tail Reliability Analysis of EchoRing and 5G NR for URLLC	Harshith M Ramachandra, Marvin Reski, Andreas Weinand, Hans D. Schotten
11:10–11:20		1571279648	Modeling and Mitigation of Wireless Signal Distortion in Onboard Ship Environments	Saurab Rauniyar, Pål Orten, Stig Petersen
11:20–11:50	Morning coffee break			
11:50–12:00	5G/6G Communication Networks – Session 3	1571285088	Energy Optimization of IoT Devices in Time-Switching SWIPT in IoT and Fog Networks	Irfan Arabaci, Hans Dermot Doran, Mehmet Akif Yazıcı
12:00–12:10		1571286449	PDU Set-Aware MAC Scheduling in 5G: Experimental Validation in OAI	Neco Villegas, Luis Diez, Domenico Scotece, Luca Foschini, Ramon Agüero
12:10–12:20	Open RAN and AI	1571263397	Reality-Gap in O-RAN xApps: Stress-Testing Offline DRL Inference Stability Across Heterogeneous KPI Distributions	Silvia Zandoli, Domenico Scotece, Luca Foschini
12:20–12:30		1571264490	Action Masking for Reliable MARL-Based MAC Protocols in Industrial Networks	Anita Schilirò, Luciano Miuccio, Salvatore Riolo, Daniela Panno
12:30–12:40		1571271875	Conflict Prediction in O-RAN Using Hierarchical Graph Neural Network	Parisa Hatamnia, Toktam Mahmoodi
12:40–12:50		1571277638	Predicting Train Delays in Finland Using Machine Learning and Weather Data	Vinicius Pozzobon Borin, Jean Michel S Sant'Ana, Nurul Huda Mahmood
12:50–13:00		1571277709	A Software Framework for Supporting Machine Learning-Enabled Predictive Control in O-RAN 5G	Juan Luis Herrera, Sergio Laso, Daniel Flores-Martin
13:00–14:30	Lunch break			
14:30–14:40	Open RAN and AI	1571277774	MORGAN for Dynamic Radio Resource Allocation in O-RAN	Parisa Hatamnia, Toktam Mahmoodi
14:40–14:50		1571277984	ORION-RAN: RAN Intelligence and Observability for near-Real-Time Open RAN Systems	Devanshu Anand, Michael Gundall, Hans D. Schotten
14:50–15:00		1571278455	The AI Telco Engineer: Toward Autonomous Discovery of Wireless Communications Algorithms	Fayçal Ait Aoudia, Jakob Hoydis, Sebastian Cammerer, Lorenzo Maggi, Gian Marti, Alexander Keller

Time	Session/Track Name	Paper Code	Paper Title	Authors
15:00–15:10	Open RAN and AI	1571279586	ARIADNE: AI-RAN Informed Link Adaptation in Digital Twin Network Environments	Maria Tsampazi, Neagin Neasamoni Santhi, Nicole Perrotta, Falko Dressler, Tommaso Melodia
15:10–15:20	Tactile Internet and Metaverse	1571269079	Low-Cost Semi-Automatic Design of Tactile IoT for Blind Students	Camilla Poggianti, Danilo Brizi, Luca Foschini, Susanna Pelagatti, Stefano Chessa
15:20–15:30		1571281146	Network-Aware Coarse-to-Fine Reconstruction of Spatial Digital Twins for Tactile Internet Environments	Peter Kappelt, Nico vom Hofe, Christian Leonard Vielhaus, Johannes Hofer, Frank H.P. Fitzek
15:30–16:00	Afternoon coffee break			
16:00–16:10	Workshop on Next-Generation Communication	1571262633	Threshold-Based Quantum-Resistant Trust Establishment for Hybrid TN and NTN IoT	Ming Yin, Abdelkrim Menina, Dominic Richter, Bassem Arar, Marc Geitz, Oliver Holschke, Riccardo Bassoli, Frank H.P. Fitzek
16:10–16:20		1571266788	A Game of Age of Information for Slotted ALOHA over Markov-Degrading Channels	Giovanni Napoleone, Francesco Pazzocco, Lucrezia Rossi, Leonardo Badia
16:20–16:30		1571267615	Joint Detection and Identification for Scalable Control of Nanorobot Swarms	Wafa Labidi, Holger Boche, Christian Deppe, Marc Geitz
16:30–16:40		1571269974	Joint Identification and Sensing with Noisy Feedback: A Task-Oriented Communication Framework for 6G	Yaning Zhao, Holger Boche, Christian Deppe
16:40–16:50		1571279093	On Oblivious Transfer via Noisy Multiple Access Channels with Colluding Parties	Hadi Aghaee, Anton Trushechkin, Roberto Ferrara, Christian Deppe, Holger Boche
16:50–17:00	Final Remarks and Closing Conference			
17:00	End of day			