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GENERAL CO-CHAIRS MESSAGE

Dear participants and colleagues, it is our pleasure to welcome you to the SoftCOM 2026 conference. We are excited to have an opportunity to take part in the organization of an international conference that gathers researchers and professionals from academia and industry to share experiences and new ideas in such a dynamic area as Information and Communication Technology. Technology is increasingly shaping the prosperity of countries and companies. The development of disruptive technologies such as AI, along with geopolitical events, is creating new arenas of competition, centred on investment in the innovation, production, and adoption of advanced technologies. AI is a transformative force for software development and is redefining how software is designed, developed, tested, deployed, and maintained. From AI-assisted coding and intelligent automation to advanced analytics and decision support, these technologies are accelerating innovation across the entire ICT sector. At the same time, they challenge us to rethink skills, ethics, security, and the way we create value for society. Our conference will provide opportunities to interact and network with presenters, experts, peers, and colleagues, as well as to participate in various discussions. The 34th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2026), technically co-sponsored by the IEEE Communications Society, will be held on September 17-19, 2026 in the beautiful city of Split located on the magnificent Croatian Adriatic coast. It will be our pleasure to meet you at the conference.

Welcome!

Sinisa Krajnovic
Dinko Begusic

TEHNICAL PROGRAM CHAIRS MESSAGE

The 34th Conference on Software, Telecommunications and Computer Networks (SoftCOM 2026) will be held in Radisson Blu Resort hotel, Split, Croatia, September 17 to 19, 2026.

Researchers and experts from industry, research institutes and universities from 44 countries all around the world have prepared their submissions for presentation at SoftCOM 2026. Submitted papers have been peer reviewed by scientists from universities, institutes and ICT companies. The accepted papers have been carefully selected based on their contribution, relevance, conceptual clearness and overall quality.

The technical conference program features six general conference sessions, three special sessions and six symposia. The special sessions are dedicated to hot topics including: New Trends in Satellite and Space Communications and Navigation, AI-Enabled UVs/UAVs for On-Demand Edge Intelligence, Environmental Electromagnetic Compatibility, Advanced Educational Technologies, Ad Hoc&Sensor Networks and Internet of Things, and Smart Environments & Internet of Things.

Besides that a Business Forum will be organized featuring industrial panels and workshops with participation of managers, experts, professionals and institutions' representatives. The 25th Ericsson Nikola Tesla Summer Camp workshop provides the opportunity to students to promote their achievements and improve their innovations management skills.

On behalf of the Technical Program Committee we would like to thank and credit the authors for their excellent contributions. Particular thanks to the reviewers for their great job as well as to the IEEE Communications Society (ComSoc), Technical Committee of Communication Software for the support.

Technical Program Committee Co-chair

Pascal Lorenz

SoftCOM 2026 COMMITTEES

TECHNICAL PROGRAM COMMITTEE

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Ayan Mondal, Indian Institute of Technology Indore, India
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Tianhua Xu, Tianjin University, China
Toni Perkovic, University of Split, Croatia
Tony Bogovic, Perspecta Labs, USA
Zoran Blazevic, University of Split, Croatia

SoftCOM 2026 Conference Secretary

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UNIVERSITY OF SPLIT
FACULTY OF ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE - F E S B SPLIT

COMMUNICATIONS AND INFORMATION SOCIETY, CROATIA (CCIS)

Under the auspices of:

CROATIAN ACADEMY OF ENGINEERING

Technically co-sponsored by:

I E E E COMMUNICATIONS SOCIETY (COMSOC)

IEEE CROATIA SECTION

IEEE COMMUNICATIONS SOCIETY – CROATIA CHAPTER

SoftCOM 2026 PROGRAM OUTLINE

Thursday, September 17, 2026 (Hotel Radisson Blu)

08:00 – 09:00 Registration

09:00 – 10:30 Technical program, Professional program, Business forum

10:30 – 11:00 Coffee break

11:00 – 12:30 Technical program, Professional program, Business forum

12:30 – 14:30 Lunch

14:30 – 16:00 Technical program, Professional program, Business forum

16:00 – 16:30 Coffee break

16:30 – 18:00 Technical program, Professional program, Business forum

Friday, September 18, 2026 (Hotel Radisson Blu)

08:00 – 09:00 Registration

09:00 – 10:30 Technical program, Professional program, Business forum

10:30 – 11:00 Coffee break

11:00 - 12:30 Keynote speech

12:30 – 14:30 Conference Luncheon

14:30 – 16:00 Technical program, Professional program, Business forum

16:00 – 16:30 Coffee break

16:30 – 18:00 Technical program, Professional program, Business forum

18:30 – 23:00 Social program

Saturday, September 19, 2026 (Hotel Radisson Blu)

08:30 – 10:00 Technical program, Professional program, Business forum

10:00 – 10:30 Coffee break

10:30 – 12:00 Technical program, Professional program, Business forum

12:30 – 16:30 Conference trip

KEYNOTE SPEAKER

KEYNOTE SPEECH Friday, September 18, 11:00-12:30 (GRAND BALLROOM)

Adapting AI Agents for Telecom Networks: From Intent-Driven Management to Autonomous Operations

Zeljka Lemaster

Head of the AI Innovation and Incubation US, at Ericsson

Abstract: What happens when telecom networks stop waiting for instructions and start making decisions on their own?

Agentic AI introduces a new operating model where AI agents can perceive, reason, collaborate, and take actions with minimal human intervention. But autonomy in telecom requires more than intelligence; it requires trust, governance, interoperability, and domain expertise.

This keynote explores how the industry can bridge that gap and unlock a future where networks not only respond to change, but anticipate it, learn from it, and optimize themselves continuously. The biggest transformation may not be technological at all: humans shift from operating networks to defining intent, while trusted agents drive execution.

Zeljka Lemaster *is the Head of the AI Innovation and Incubation US, at Ericsson. She holds a Master's degree in Computer Science from the University of Zagreb, Croatia. Prior to joining Ericsson, Zeljka held number leadership roles across Silicon Valley startups and mid-sized technology companies, where she led multidisciplinary teams of data scientists, software engineers, and product developers focused on building data-driven enterprise solutions powered by artificial intelligence, machine learning, and advanced analytics. At Ericsson, Zeljka leads strategic initiatives focused on applying emerging AI technologies to telecom networks and operations. Her most recent work spans the development of Autonomous Network solutions that leverage Telecom Foundation Models, domain-specific knowledge, and multi-agent AI systems to accelerate innovation across Ericsson's portfolio and deliver measurable value to communication service providers. Zeljka also leads AI ecosystem engagement efforts across North America and Silicon Valley, collaborating with technology leaders, startups, hyperscalers, research institutions, and open-source communities.*

TECHNICAL PROGRAM: GENERAL CONFERENCE

Friday, September 18, 09:00-10:30 (RUŽMARIN)

S1: 5G & B5G TECHNOLOGIES

Chair: Giovanni Giambene (University of Siena, Italy)

Empirical Analysis of 4G/5G Connectivity and Latency on Czech Railway Corridors
Jan Kufa, Ladislav Polak, Ondřej Zelený and Tomas Fryza (Brno University of Technology, Czech Republic)

QoEVR: A Composite QoE Metric for Wireless VR with Network QoS and User-Role Sensitivity
Sulaimon Alaba Yusuf (Federal University of Lavras, Brazil); Ogobuchi Daniel Okey (Federal University of ABC (UFABC), Brazil); Renata Lopes Rosa (Federal University of Lavras, Brazil); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil)

DualPI2 Active Queue Management in ns-3: Implementation and Validation
Maria Eduarda Veras and Eduardo Freitas (Universidade Federal de Pernambuco, Brazil); Assis Tiago de Oliveira Filho (Universidade Federal de Pernambuco & GPRT Networking and Telecommunications Research Group, Brazil); Judith Kelner (UFPE, Brazil); Djamel Hadj Sadok (Federal University of Pernambuco, Brazil)

eBPF-Based TEID-Aware GTP-U Telemetry for Containerized Edge O-RAN xHaul
Abu Bakar Rana (CNIT, Italy & CNIT, Italy); Francesco Paolucci and Filippo Cugini (CNIT, Italy); Juan José Vegas Olmos (NVIDIA Corporation, Israel); Piero Castoldi (Scuola Superiore Sant'Anna, Italy)

Fuzzy-Based Vertical Handover Scheme for Federated GOVSATCOM Systems
Hoang Trung Le and Giovanni Giambene (University of Siena, Italy); Jorge Baranda (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC/CERCA), Spain); Marc Carrascosa-Zamacois (Centre Tecnològic de les Telecomunicacions de Catalunya, Spain); Eddi Gonzalez Aular (Hispasat, Spain); Julio Modrego Gil (INDRA, Italy)

Friday, September 18, 09:00-10:30 (KAKTUS)

S2: NETWORK OPERATIONS AND MANAGEMENT

Chair: Joško Radić (University of Split, Croatia)

RAG-Empowered LLM-Driven Proactive Radio Resource Management for O-RAN
Onur Salan (Communications and Signal Processing Research (HİSAR) Laboratory, TÜBİTAK BİLGEM, Turkey & Istanbul Technical University, Turkey); Burak Çırağ (Istanbul Technical University, Turkey); Onur Sever (Communications and Signal Processing Research (HISAR) Lab TUBITAK BILGEM, Turkey & Ozyegin University, Turkey); Ibrahim Hokelek (Tubitak Bilgem, Turkey); Ali Gorcin (Istanbul Techical University, Turkey); Hakan A. Çırpan (Istanbul Technical University, Turkey)

Boundary-Contiguous Initial Placement for Structured Network-Service Embedding
Amir Javadpour (Ictficial, Finland); Forough Ja'fari (Sharif University of Technology, Iran); Tarik Taleb (Ruhr University Bochum, Germany)

Rule-Aware VNE for SDN Resource Management
Amir Javadpour (Ictficial, Finland); Forough Ja'fari (Sharif University of Technology, Iran); Tarik Taleb (Ruhr University Bochum, Germany); Masoud Shokrnezhad (Ictficial Oy, Finland)

A Flow-Level Controlled Dual-WAN Architecture for Session Preservation and Adaptive Quality Selection in VoIP Networks
Yuma Nishimura and Toshikazu Nishimura (Ritsumeikan University, Japan)

Reserve-Aware Buffer Control for QoS Support in Satellite-Assisted QKD Networks
Filip Lauterbach (VŠB-TUO, Czech Republic); Michal Vanek (VSB - Technical University of Ostrava, Czech Republic); Miralem Mehic (University of Sarajevo, Bosnia and Herzegovina); Miroslav Voznak (VSB - Technical University of Ostrava, Czech Republic)

Mobility Patterns in a Large-Scale Public Wi-Fi Network from Privacy-Preserving DHCP Logs
Gianluca Mazzini (University of Ferrara, Italy)

Characterizing Fairness Trade-offs in Multi-Client Adaptive Streaming
André Luiz Silva de Moraes (Federal University of Santa Catarina, Brazil & Federal Insitute of Santa Catarina, Brazil); Douglas D J Macedo (Federal University of Santa Catarina, Brazil)

Friday, September 18, 14:30-16:00 (RUŽMARIN)

S3: AI IN SOFTWARE DEVELOPMENT

Chair: Linda Vicković (University of Split, Croatia)

A Multi-LLM Framework for Confidence-Aware User Story Classification
Carlos Eduardo Meneses de Souza (UFCG, Brazil); Emanuel Dantas (VIRTUS, Brazil); Mirko Perkusich (VIRTUS-UFCG, Brazil); Danyllo Wagner Albuquerque (UFCG & Intelligent Software Engineering Group, Brazil); Ademar França De Sousa Neto (UFCG, Brazil); Kyller Costa Gorgônio and Angelo Perkusich (Federal University of Campina Grande, Brazil)

Software Team Formation Research: A Longitudinal Analysis
Emanuel Dantas (VIRTUS, Brazil); Ademar França De Sousa Neto (UFCG, Brazil); Mirko Perkusich (VIRTUS-UFCG, Brazil); Danyllo Wagner Albuquerque (UFCG & Intelligent Software Engineering Group, Brazil); Alexandre Costa (Federal University of Campina Grande, Brazil); Eduardo Simões (UFAL, Brazil); Evandro Costa (UFAL-Universidade Federal de Alagoas, Brazil); Kyller Costa Gorgônio and Angelo Perkusich (Federal University of Campina Grande, Brazil)

Prompting GPT-5 on Scrum Certification Questions: An Empirical Accuracy Study
Mirko Perkusich (VIRTUS-UFCG, Brazil); Danyllo Wagner Albuquerque (UFCG & Intelligent Software Engineering Group, Brazil); João Paiva and Robson Vilar (UFCG, Brazil); Emanuel Dantas (VIRTUS, Brazil); Ademar França De Sousa Neto (UFCG, Brazil); Kyller Costa Gorgônio and Angelo Perkusich (Federal University of Campina Grande, Brazil)

Saturday, September 19, 08:30-10:00 (RUŽMARIN)

S4: AI/ML METHODS AND APPLICATIONS

Chair: Danyllo Wagner Albuquerque (Federal University of Campina Grande, Brazil)

Towards a Neuro-Symbolic Architecture for Trustworthy Cultural Heritage Question Answering
Martin Kuzman, and Krunoslav Žubrinić (University of Dubrovnik, Croatia); Marko Horvat (University of Zagreb, Croatia)

Evaluating Prompting Strategies in PMP-Style Certification Questions with GPT
Pedro Ivo Leite (IFPB, Brazil); João Paiva (UFCG, Brazil); Danyllo Wagner Albuquerque (UFCG & Intelligent Software Engineering Group, Brazil); Mirko Perkusich (VIRTUS-UFCG, Brazil); Angelo Perkusich (Federal University of Campina Grande, Brazil)

A Comparative Study of Prompting Strategies for LLM-Guided SQL Query Optimization
Daniel Costa (IFPB, Brazil); Danyllo Wagner Albuquerque (UFCG & Intelligent Software Engineering Group, Brazil); Bruno Moreno (IFPB, Brazil); Emanuel Dantas (VIRTUS, Brazil); Ademar França De Sousa Neto (UFCG, Brazil); Mirko Perkusich (VIRTUS-UFCG, Brazil); Kyller Costa Gorgônio and Angelo Perkusich (Federal University of Campina Grande, Brazil)

Input data preprocessing in landslide segmentation using deep neural networks
Kseniia Ikonnikova, Marko Subasic and Juraj Petrovic (University of Zagreb, Croatia); Vlatko Gulam (Croatian geological survey, Croatia); Davor Pollak (Hrvatski geološki institut, Croatia); Mario Tropčić (University of Zagreb, Croatia)

ROAD-E: Edge-Based Real-Time Anomaly Detection for ODD-Oriented Vehicle Testing
Daniel Kraus (Pro2Future GmbH, Austria); Amel Jelidi (Pro2Future GmbH, Austria & Graz University of Technology, Austria)

Hierarchical Deep Reinforcement Learning for S-Curve Trajectory Control and Goal-based Decision Making in Autonomous Driving
Jay Trivedi and Nitin Singh Rajput (Pandit Deendayal Energy University, Gandhinagar, India)

Friday, September 18, 09:00-10:30 (PALMA)

S5: DATA PROCESSING

Chair: Vassilis G. Kaburlasos (International Hellenic University, Greece)

Agricultural Time-Series Forecasting Using a Type 1 Neural Network (T1NN)
Christoforos Panagiotoudis and Vassilis G. Kaburlasos (International Hellenic University, Greece)

An Adaptive Temporal Multimodal Fusion Algorithm for Data Capture and Analysis in Virtual Reality Systems
David Augusto Ribeiro (UFLA, Brazil); Francisco Elias Rodriguez Novoa (National University of Trujillo, Peru); Muhammad Saadi (Nottingham Trent University, United Kingdom (Great Britain)); Renata Lopes Rosa; Demostenes Zegarra Rodriguez (Universidade Federal de Lavras, Brazil)

Risk Aware Adaptive Scheduling Between In-Memory and Disk-Based Big Data Frameworks
Mallikharjuna Rao K, Aryan Bramhe, Anuj Patil and Pranjal Sharma (IIIT Naya Raipur, India)

SemDriftBD: Distributed Semantic Drift Detection in Large-Scale Text Streams
Bandi Sai Vikas, J Jaya Surya, Chaitanya Krishna Bypuneni and Mallikharjuna Rao K (IIIT Naya Raipur, India)

Towards Predictive Estimation of Coefficients in a Single-Index Asset Return Model
Marko Miljković and Stjepan Begušić (University of Zagreb, Croatia)

Thursday, September 17, 9:00-10:30 (KAKTUS)

S6: SPEECH AND ACOUSTIC SIGNAL PROCESSING

Chair: Branko Žitko (University of Split, Croatia)

Lightweight CNN for Musical Instrument Recognition
Peter Simeon Klunda, Maroš Jakubec, Roman Jarina and Peter Kasák (University of Zilina, Slovakia)

Evaluating Speaker Verification on VoxAging: A Longitudinal Data-Centric Study
Adam Lukáč, Roman Jarina, Maroš Jakubec and Peter Kasák (University of Zilina, Slovakia)

Benchmarking ASR Models on Croatian Spoken Numbers
Lucija Bročić and Branko Žitko (University of Split, Croatia)

Speaker-Independent Classification of Croatian Spoken Arithmetic Tokens Using Linear Models
Mia Jadrić, Jakša Janković, Mate Elez, Sara Romac, Matea Vučemilović-Vranjić and Branko Žitko (University of Split, Croatia)

Thursday, September 17, 9:00-10:30 (RUŽMARIN)

S7: AI/ML BASED IMAGE PROCESSING

Chair: Sven Gotovac (University of Split, Croatia)

A Crown-Aware Framework for Cross-Plot Forest Defoliation Estimation from Hyperspectral Data
Shafiullah Soomro and Arianit Kurti (Linnaeus University, Sweden)

Adaptive Spectral-Texture Descriptor for Efficient Maize Disease Detection in Resource-Constrained Agricultural Environments
Ugochukwu Okwudili Matthew (Universidade Federal de Lavras, Brazil); Francisco Elias Rodriguez Novoa (National University of Trujillo, Peru); Muhammad Saadi (Nottingham Trent University, United Kingdom (Great Britain)); Renata Lopes Rosa, and Demostenes Zegarra Rodriguez (Federal University of Lavras, Brazil)

YOLOv11x with CBAM and Focal Loss for Six-Class Coffee Cherry Maturity Detection
Jimmy Robert Ccama Ccaña (Universidade Federal de Lavras, Brazil); Demostenes Zegarra Rodriguez (UFLA, Brazil); Renata Lopes Rosa (Universidade Federal de Lavras, Brazil)

GPU-Accelerated Vessel Tracking Using NVIDIA DeepStream
Nediljko Bugarin (University of Split, Croatia); Sven Gotovac (University of Split & FESB, Croatia)

Vehicle Control in CARLA Simulator via Hand Gesture Recognition Using a Webcam
Robert Pavić (TTTech Auto LLC, Croatia); Marijan Herceg (Josip Juraj Strossmayer University of Osijek, Croatia); Mario Vranjes (University of Osijek, Croatia); Ratko Grbić (University of Osijek, Faculty of Electrical Enginneering, Croatia)

Driver Emotion Recognition in Automotive Applications Using In-Vehicle Camera
Filip Fekete (TTTech Auto LLC, Croatia); Marijan Herceg (FERIT, Croatia); Ratko Grbić (University of Osijek, Faculty of Electrical Enginneering, Croatia); Mario Vranjes (University of Osijek, Croatia)

Saturday, September 19, 08:30-10:00 (KAKTUS)

S8: AI/ML APPLICATIONS IN BIOMEDICINE

Chair: Matko Šarić (University of Split, Croatia)

Machine Learning for Tremor Detection in Parkinson's and Essential Tremor Using Wearables
Sara Bruschi (Università Politecnica delle Marche, Italy); Marco Esposito, Sara Raggiunto and Luisiana Sabbatini (Università Politecnica Delle Marche, Italy); Alberto Belli and Paola Pierleoni (Università Politecnica delle Marche, Italy)

Edge AI for Parkinson's Disease Monitoring: A Task-Aware Data Reduction Approach
Andrea Procopio (Massachusetts Institute of Technology, USA); Marco Esposito (Università Politecnica Delle Marche, Italy); Sara Bruschi (Università Politecnica delle Marche, Italy); Sara Raggiunto (Università Politecnica Delle Marche, Italy); Alberto Belli and Paola Pierleoni (Università Politecnica delle Marche, Italy

A Hybrid DenseNet-SVM Approach for EEG-Based Emotion Recognition
Douglas Silva (Universidade Federal de Lavras, Brazil); Vinicius Vitor dos Santos Dias and Mariele Jordane da Silva (UFLA, Brazil); Renata Lopes Rosa (Universidade Federal de Lavras, Brazil); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil)

Automated Dental Pathology Segmentation via a Microservices AI Architecture
Gabriel Mihali (Babeș-Bolyai University, Romania); Camelia Florina Andor (Babes-Bolyai University, Romania)

PoreMap: Unlocking High-Throughput Raw Nanopore Signal Mapping with Near-Memory Processing
Tianqi Zhang (University of California, San Diego, USA); Minxuan Zhou (Illinois Institute of Technology, USA); Niema Moshiri and Tajana Rosing (University of California, San Diego, USA)

SPECIAL SESSIONS AND SYMPOSIA

SS1: SPECIAL SESSION ON NEW TRENDS IN SATELLITE AND SPACE COMMUNICATIONS AND NAVIGATION

Thursday, September 17, 16:30-18:00 (PALMA)

SS1: SPECIAL SESSION ON NEW TRENDS IN SATELLITE AND SPACE COMMUNICATIONS AND NAVIGATION

Chair: Roberto Garello (Politecnico di Torino, Italy)

Integrated Sensing, Communication, and Navigation in LEO Space Networks
Giorgio Taricco (Politecnico di Torino, Italy)

Rate-Compatible SC-LDPC Coding for Deep-Space Telemetry in Jammed Environments
Massimo Battaglioni, Rebecca Giuliani, Mauro Michele Maria Costantino and Franco Chiaraluce (Università Politecnica delle Marche, Italy)

Uninterrupted communication in LEO networks using soft handover with imperfect CSI
Houcem Ben Ben Salem (Politecnico di Torino, Italy); Alberto Tarable (National Research Council, Italy); Alessandro Nordio (CNR-IEIIT, Italy); Behrooz Makki (Ericsson Research, Sweden)

CRC-Assisted MRB Post-Processing for Error-Floor Reduction in CCSDS Turbo Codes
Alberto G. Perotti (Politecnico di Torino, Italy); Mohammad Mahdi Assaf (Telecom Paris, France); Roberto Garello (Politecnico di Torino, Italy)

Influence of the Ground Surface Type on Ultra-Wideband Positioning Accuracy of a Nano UAV
Mario Muštra, Luka Kramarić, and Goran Pažin (University of Zagreb, Croatia)

User Scheduling with Hybrid Beamforming Architectures for SDM-based LEO Non-Terrestrial Networks
Daniel Gaetano Riviello, and Nicolò Benso (Politecnico di Torino, Italy)

Analog and Digital Signal Processing for Coherent Optical Satellite Uplinks
Stella Civelli (CNR-IEIIT, Italy); Marco Secondini (Scuola Superiore Sant'Anna, Italy); Luca Potì (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, Italy)

Design and Implementation of a System for Emulating Space Communication Conditions in Analog Missions
Zbyněk Kocur, and Ondrej Vondrous (Czech Technical University in Prague, Czech Republic)

SS2: SPECIAL SESSION ON AI-ENABLED UVs/UAV FOR ON-DEMAND EDGE INTELLIGENCE

Thursday, September 17, 14:30-16:00 (PALMA)

SS2: SPECIAL SESSION ON AI-ENABLED UVs/UAV FOR ON-DEMAND EDGE INTELLIGENCE

Chair: Giovanni Giambene (University of Siena, Italy)

Low Bit-Rate Learning by UAV Networks for Environmental Monitoring
Marco Carpentiero (University of Salerno, Italy); Riccardo Zambon and Phuc Tinh Vo (University of Siena, Italy); Paolo Addesso (University of Salerno, Italy); Giovanni Giambene (University of Siena, Italy); Vincenzo Matta (University of Salerno, Italy)

Multi-RAT Throughput-Based Mapping and Trajectory Planning for Mobile Robots
Pietro Spadaccino (La Sapienza Università di Roma, Italy); Giuseppe Baruffa and Luca Rugini (University of Perugia, Italy); Antonia Tulino (Universita' degli Studi di Napoli, Italy & New York University, USA); Paolo Banelli (University of Perugia, Italy); Sergio Barbarossa (Sapienza University of Rome, Italy)

Real-Time Digital Twin for UAV Telemetry Monitoring and Closed-Loop Control over Cellular Networks
Nicola Garau (University of Trento, Italy); Giovanni Giambene (University of Siena, Italy); Fabrizio Granelli (University of Trento, Italy); Phuc Tinh Vo and Riccardo Zambon (University of Siena, Italy)

Multi-Agent Reinforcement Learning for SLA-Aware Network Slicing in UAV-Enabled MEC
Mohammad Farhoudi (University of Oulu, Finland); Zeinab Sasan (Amirkabir University of Technology, Iran); Masoud Shokrnezhad (Ictficial Oy, Finland); Tarik Taleb (Ruhr University Bochum, Germany)

UAV Privacy-Preserving in 6G Non-Terrestrial Networks under Traffic Analysis Threats
Huw T Whitworth and Al-Rubaye Saba (Cranfield University, United Kingdom (Great Britain))

SS3: SPECIAL SESSION ON ENVIRONMENTAL ELECTROMAGNETICS COMPATIBILITY

Thursday, September 17, 11:00-12:30 (AGAVA)

SS3: SPECIAL SESSION ON ENVIRONMENTAL ELECTROMAGNETICS COMPATIBILITY

Chair: Dragan Poljak (University of Split, Croatia)

Gaussian Process Regression Surrogate Model for Uncertainty Quantification of Absorbed Power Density in 1-layer Planar Skin
Anna Šušnjara Nejašmić, and Dragan Poljak (University of Split & FESB, Croatia)

A Note on the Calculation of the Power Loss and Leakage Current in the vicinity of the Horizontal Grounding Electrode
Dragan Poljak (University of Split, Croatia)

Influence of Human Body Posture on Induced Current Density Under Uniform Low Frequency Magnetic Field Exposure
Mario Cvetković (University of Split, Croatia); Dragan Poljak (University of Split, FESB, Croatia); Hrvoje Dodig (University of Split, Faculty of Maritime Studies & Naval Electronic Center, PCE, Croatia)

SS4: SPECIAL SESSION ON ADVANCED EDUCATIONAL TECHNOLOGIES

Saturday, September 19, 10:30-12:00 (PALMA)

SS4: SPECIAL SESSION ON ADVANCED EDUCATIONAL TECHNOLOGIES

Chair: Angelina Gašpar (University of Split, Croatia)

From a Digital Twin to Physical Plant: A Mixed Reality Multitank Experiment in an Intelligent Control Systems Course
Armin Remenyi and Saleh Ragheb Saleh Alsaleh (Tallinn University of Technology, Estonia); Aleksei Tepljakov (Tallinn University of Technology & R8 Technologies OÜ, Estonia); Eduard Petlenkov and Vladimir Kuts (Tallinn University of Technology, Estonia)

Research and Design of a Multi-Agent Adaptive Cyber Range
Lucian-Daniel Jimon and Mircea Vaida (Technical University of Cluj-Napoca, Romania)

Competency-Oriented Learning in International Project-Based Software Engineering Education
Birgit Pohn (University of Applied Sciences Technikum Wien, Austria & Medical University Graz, Austria); Lars Mehnen (Technikum Wien, Austria); Samuil Angelov (Fontys University of Applied Sciences, The Netherlands)

Supporting Individualized Learning Paths in eHealth Through a Competency-Based Meta-Framework
Birgit Pohn (University of Applied Sciences Technikum Wien, Austria & Medical University Graz, Austria); Lukas Rohatsch (University of Applied Sciencies Technikum Wien, Austria); Matthias Frohner, Lilly Maria Treml, Alireza Mosadegh Manshadi and Stefan Sauermann (University of Applied Sciences Technikum Wien, Austria)

When Correct Isn't Enough: A Cognitive Load Theory Critical Analysis for AI Tutor Responses
Rachel Van Campenhout, Jeffrey S. Dittel, and Benny G Johnson (VitalSource, USA)

SS5: SPECIAL SESSION ON SMART ENVIRONMENTS AND INTERNET OF THINGS

Thursday, September 17, 11:00-12:30 (KAKTUS)

SS5: SPECIAL SESSION ON SMART ENVIRONMENTS AND INTERNET OF THINGS

Chair: Maja Stella (University of Split, Croatia)

Experimental Analysis of Wi-Fi CSI and Channel Impulse Response Reconstruction in Industrial Environments
Ahmed-Zakaria Ghecham (Conservatoire National des Arts et Métiers, France); Hakim Adjedjou (Conservatoire Nationale Des Arts et Métiers- Paris, France); Michel Terré (CNAM, France); Lounis Zerioul (Conservatoire Nation Des Arts et Metiers, France); Iness Ahriz (CNAM, France); Nicolas Vasseur (Renault, France); Emilie Rondet (Verkor, France)

A Headless IoT Framework for Automated Road Traffic Monitoring with Machine Learning
Georgios Faltakas and George T. Karetsos (University of Thessaly, Greece); Fotios Gioulekas (Dept. of Digital Systems University of Thessaly, 5th Regional Health Authority, Greece)

An Edge-Intelligent Cybersecurity Architecture for Secure IoT Environmental Monitoring in High-Sensitivity Infrastructures
Hmoud Alsharji, Nayef Abusharia, Wadima Alyafei, Hamad Alkaabi and Mohamed Hadded (Abu Dhabi University, United Arab Emirates)

An IoT System for Real-Time Punching Bag Training Monitoring and Strike Analytics
Dunja Međurečan and Juraj Petrovic (University of Zagreb, Croatia)

Joint Offload Parameter and CPU Frequency Optimization for AUV-Assisted Underwater Computation Offloading
Amin Ebrahimzadeh (CoE MARBLE - Centre of Excellence in Maritime Robotics and Technologies for Sustainable Blue Economy, Croatia); Fausto Ferreira (University of Zagreb & CoE MARBLE - Centre of Excellence in Maritime Robotics and Technologies for Sustainable Blue Economy, Croatia); Barbara Arbanas Ferreira (CoE MARBLE - Centre of Excellence in Maritime Robotics and Technologies for Sustainable Blue Economy, Croatia)

SS6: SPECIAL SESSION ON AD-HOC & SENSOR NETWORKS AND INTERNET OF THINGS

Thursday, September 17, 09:00-10:30 (OLEANDAR)

SS6: SPECIAL SESSION ON AD-HOC & SENSOR NETWORKS AND INTERNET OF THINGS

Chair: Ante Kristić (University of Split, Croatia)

A Digital Twin-Driven Framework with Machine Learning Integration for Crop-Yield Prediction
Ayub Shah, Rawlings Ntassah and Fabrizio Granelli (University of Trento, Italy)

Temporal Successive Interference Cancellation for Multi-User Detection in Unslotted ALOHA-based Passive RFID Systems
Leonarda Pavlovski (University of Split, Croatia); Andrea Petroni (Fondazione Ugo Bordoni, Italy); Mauro Biagi (Sapienza University of Rome, Italy)

High-Performance Edge-Optimized Federated IDS through Dynamic Knowledge Transfer and Adaptive Loss-Temperature Control
Ogobuchi Daniel Okey (Federal University of ABC (UFABC), Brazil); Sajjad Dadkhah (University of New Brunswick (UNB), Canada); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil); João Henrique Kleinschmidt (Universidade Federal Do ABC, Brazil)

Two IoT Devices for E-monitoring Insect Pests
Armando Amore (Italy); Andrea Sciarretta (University of Molise, Italy); Theodore A. Tsiligiridis (Agricultural Unilversity of Athens, Greece)

A Modular Sensor Fusion Pipeline for Configurable Localization in Autonomous Systems
Tatsuki Ishikawa and Uljana Reinsalu (Tallinn University of Technology, Estonia); Aleksei Tepljakov (Tallinn University of Technology & R8 Technologies OÜ, Estonia)

Unsupervised Learning-Assisted In-Cave Wireless Network Planning Based on Real Measurement
Sara Ranjbaran (Aalto University, Finland); Arshiya Madadi (hahid Chamran University of Ahvaz, Iran); Mehdi Naderi Soorki and Arsalan Keyvanrad (Shahid Chamran University of Ahvaz, Iran)

SYM1/I: SYMPOSIUM ON NEXT GENERATION WIRED AND WIRELESS NETWORKS I

Thursday, September 17, 9:00-10:30 (PALMA)

SYM1/I: SYMPOSIUM ON NEXT GENERATION WIRED AND WIRELESS NETWORKS I

Chair: Pascal Lorenz (University of Haute Alsace, France)

Urban LTE/5G Coverage Analysis: HTZ Simulation and RTL-SDR Measurement Validation
David Legan and Iztok Humar (University of Ljubljana, Slovenia)

Urban Map-Aware Internet-of-Vehicle Wireless Network Deployment Using Unsupervised Learning
Sara Ranjbaran (Aalto University, Finland); Arsalan Keyvanrad (Shahid Chamran University of Ahvaz, Iran); Arshiya Madadi (hahid Chamran University of Ahvaz, Iran); Mehdi Naderi Soorki (Shahid Chamran University of Ahvaz, Iran)

Smart and Sustainable Networks: CongestionForecasting and Traffic Orchestration Using Bayesian Deep Learning
Angela Voinea Ciocan (ESAIP, France); Adrian Ciocan (La Rochelle University, France); Sofiane Hamrioui (ESAIP, France); Vincent Courboulay (L3i - La Rochelle Université, France); Pascal Lorenz (University of Haute Alsace, France)

Calibrated Budget-Aware RF Frame Selection for Edge Wireless Systems
Angela Voinea Ciocan and Sofiane Hamrioui (ESAIP, France); Vincent Courboulay (L3i - La Rochelle Université, France); Adrian Ciocan (La Rochelle University, France); Pascal Lorenz (University of Haute Alsace, France)

Coexistence Analysis Between IMT Base Stations and FSS Earth Stations in the Upper 6 GHz Band
Marina Lotti and Valeria Petrini (Fondazione Ugo Bordoni, Italy); Claudia Carciofi (Via Indipendenza 24, Italy); Manuel Faccioli (Fondazione Ugo Bordoni, Italy)

LAPLACE: Payload-Aware Dynamic Precision Orchestration for Edge LLM Inference
Abu Bakar Rana (CNIT, Italy & CNIT, Italy); Lorenzo De Marinis (Scuola Superiore Sant'Anna, Italy); Francesco Paolucci (CNIT, Italy); Piero Castoldi (Scuola Superiore Sant'Anna, Italy); Filippo Cugini (CNIT, Italy)

SYM1/II: SYMPOSIUM ON NEXT GENERATION WIRED AND WIRELESS NETWORKS II

Saturday, September 19, 08:30-10:00 (PALMA)

SYM1/II: SYMPOSIUM ON NEXT GENERATION WIRED AND WIRELESS NETWORKS II

Chair: Pascal Lorenz (University of Haute Alsace, France)

FAOT: Federated Omni-Twin for Supply Chain Orchestration via HAPPO and Asymmetric Loss
Kartik Pandey, Keshav Prasad, Mallikharjuna Rao K and Aditya Nayak (IIIT Naya Raipur, India)

Content-Aware Video Quality Assessment in Lossy Environment
Janusz Henryk Klink (Wroclaw University of Science and Technology, Poland); Tadeus Uhl (Flensburg University of Applied Sciences, Germany)

HAPS-Supported Radio Access Network Resilience with Weather-Aware Modeling and Priority-Aware Strategies
Marco Cutarelli, Greta Vallero and Michela Meo (Politecnico di Torino, Italy)

End-to-End Network Slicing with Radio-Level QoS in a Fully Virtualized Kubernetes 5G Testbed
Elena-Ramona Modroiu, and Lukas Benjamin Roth and Johannes Maria Ruef (TU Berlin, Germany); Sharan Deepak Thakur (Fraunhofer FOKUS, Germany); Thomas Magedanz (Fraunhofer Institute FOKUS / TU Berlin, Germany)

Computationally Efficient Capacity Planning Method in 4G/5G Mobile Networks
Albert Mráz (John Von Neumann University, Hungary

SYM2/I: SYMPOSIUM ON SECURITY AND DATA FORENSICS I

Thursday, September 17, 14:30-16:00 (KAKTUS)

SYM2/I: SYMPOSIUM ON SECURITY AND DATA FORENSICS I

Chair: Toni Perković (University of Split, Croatia)

Mitigating EDoS with Transfer Reinforcement Learning
Amir Javadpour (Ictficial, Finland); Forough Ja'fari (Sharif University of Technology, Iran); Chafika Benzaid (University of Oulu, Finland & University of Sciences and Technology Houari Boumediane (USTHB), Algeria); Tarik Taleb (Ruhr University Bochum, Germany); Fatih Turkmen (University of Groningen, The Netherlands)

Deep Learning-Based Malware Detection and Family Classification Using Byteplot Image Encoding
Omar Elalfy, Abdulkareem Salem, Abdelrahman Donia, Sultan Deaibes and Mohamed Hadded (Abu Dhabi University, United Arab Emirates)

An OSINT-Driven Framework for Adaptive Honeypot Deployment Using LLM-Guided Intelligence
Hayfaa Akeil, Afnan Majdi, Arwa Emad, Tala Ballout and Mohamed Hadded (Abu Dhabi University, United Arab Emirates)

Enhancing Operation Wisdom Logging solution utilizing different local LLMs for Security Anomaly Detection
Zoran Bosic, Tomislav Zitnik, Nikola Seletkovic and Dorijan Kos (Ericsson Nikola Tesla, Croatia)

GIF Content Moderation in Messaging Systems
Matko Šimić (Infobip, Croatia); Maria Ljubičić (Infobip d.o.o, Croatia); Andro Merćep (University of Zagreb, Croatia); Emanuel Lacić (Infobip, Croatia)

Privacy-Preserving Federated Multitask Multi-Output Learning for Device Identification and Intrusion Detection in IoT Networks
Ogobuchi Daniel Okey (Federal University of ABC (UFABC), Brazil); Sajjad Dadkhah (University of New Brunswick (UNB), Canada); Renata Lopes Rosa (Federal University of Lavras, Brazil); Demostenes Zegarra Rodriguez (UFLA, Brazil); João Henrique Kleinschmidt (Universidade Federal Do ABC, Brazil)

SYM2/II: SYMPOSIUM ON SECURITY AND DATA FORENSICS II

Thursday, September 17, 16:30-18:00 (KAKTUS)

SYM2/II: SYMPOSIUM ON SECURITY AND DATA FORENSICS II

Chair: Toni Perković (University of Split, Croatia)

Real-time Intrusion Detection System for Digital Twins in Industrial Control Systems
Sahar Zamanian and Maria Kihl (Lund University, Sweden)

Digital Twin-Based Intrusion Detection System Using Deep Reinforcement Learning for DNS Traffic Analysis
Samia Saidane (CNIT, Italy); Panagiotis Gkonis (National Technical University of Athens, Greece); Fabrizio Granelli (University of Trento, Italy)

Phase-Transition Analysis of Variance Estimation in Evolving Clustering for IoT Intrusion Detection
Augusto Vicente (Universidade Federal de Minas Gerais, Brazil); Renata Lopes Rosa (Federal University of Lavras, Brazil); Frederico Gadelha Guimaraes (Universidade Federal de Minas Gerais, Brazil)

Selective Delegation of Authentication Contexts over WebRTC-Based Peer-to-Peer Communication
Koki Nakajima and Toshikazu Nishimura (Ritsumeikan University, Japan)

A Dual-Engine Cascaded Authentication Framework for Cancelable Fingerprints
Manodya Induwari Weerasooriya Weerasooriyage and Dulakshin Pabasara Jayawardhana Geekiyanage (University of Agder, Norway & University of Ruhuna, Sri Lanka); Harsha S Gardiyawasam Pussewalage (University of Agder, Norway); K. Darshana Abeyrathna (Group Research & Development, DNV AS, Oslo, Norway)

COVER-MTD: Learning-Guided DDoS Defense for Edge-IoT
Amir Javadpour (Ictficial, Finland); Forough Ja'fari (Sharif University of Technology, Iran); Chafika Benzaid (University of Oulu, Finland & University of Sciences and Technology Houari Boumediane (USTHB), Algeria); Tarik Taleb (Ruhr University Bochum, Germany)

SYM2/III: SYMPOSIUM ON SECURITY AND DATA FORENSICS III

Friday, September 18, 16:30-18:00 (KAKTUS)

SYM2/III: SYMPOSIUM ON SECURITY AND DATA FORENSICS III

Chair: Toni Perković (University of Split, Croatia)

Secure Drone Surveillance under Adversarial Conditions
Ahmed Salah Tawfik Ibrahim (CNIT, Italy); Athanasios Boufis (University of Patras, Greece); Matteo Sandrucci (Scuola Superiore Sant'Anna, Italy); Francesco Paolucci and Filippo Cugini (CNIT, Italy); Kyriakos Vlachos (University of Patras, Greece)

VEGAS: Verifiable and Efficient Group-based secure Aggregation with Zero-Sum masking
Madani Mohamed Mehdi and Yacine Khellas (ESI, Algeria); Jean-Paul Yacoub (Univ Polytechnique Hauts-De-France LAMIH, France); Youcef Imine (Univ Polytechnique Hauts-De-France LAMIH CNRS, France); Antoine Gallais (Univ Polytechnique Hauts-De-France LAMIH CNRS & INSA Hauts-De-France, France); Leila Hamdad (Ecole Supérieur d'Informatique, Algeria)

Sovereignty Is Not Digitalization: A Bottleneck-Aware Index for Comparing National Digital Autonomy
Gianluca Mazzini (University of Ferrara, Italy); Stefano Epifani (Digital Transformation Institute, Italy)

ICARUS: Intelligence-driven Contextual Assessment of Risks in Unseen Scenarios
Ricardo Alves Oliveira (Universidade do Minho, Portugal); João Marco C. Silva (University of Minho, Portugal & INESC TEC, Portugal)

A Web Interface for Colour Image Steganography Using Bit Selection and Reading Order as Keys
Lucija Žužić (University of Rijeka, Croatia); Jonatan Lerga (University of Rijeka -Tehnički Fakultet, Croatia); Renato Filjar (University of Rijeka, Croatia)

Post-Quantum Cryptography for Secure V2X Communications in Intelligent Transportation Systems
Sihem Baccari and Mohamed Hadded (Abu Dhabi University, United Arab Emirates)

SYM3/I: SYMPOSIUM ON ROBOTICS AND ICT ASSISTED WELLBEING I

Thursday, September 17, 14:30-16:00 (OLEANDAR)

SYM3/I: SYMPOSIUM ON ROBOTICS AND ICT ASSISTED WELLBEING I

Chair: Mirjana Bonković (University of Split, Croatia)

Interpretable Machine Learning for ESG Score Prediction
Zoi Kasapi, Eleni Vrochidou and George A Papakostas (Democritus University of Thrace, Greece)

Flying on the Edge: A Survey of Time-Critical FPGA-Enabled Neural Networks for Vision and Obstacle Avoidance Applications
Sebastian Karl Mladen Haupt, Marina Prvan, Josip Music, Arijana Burazin Mišura and Vesna Pekic (University of Split, Croatia)

Cumulative Excess Feature Augmentation for Cross-Bearing RUL Prediction
Goran Josifovski (St. Cyril and Methodius University, Macedonia, the former Yugoslav Republic of); Zoran Hadzi-Velkov (Ss. Cyril and Methodius University in Skopje, Macedonia, the former Yugoslav Republic of); Marija Koleva (Makstil, Macedonia, the former Yugoslav Republic of)

LSTM Forecasting of Photovoltaic Production and Its Impact on Energy Balance in an Off-Grid Microgrid
Tea Erceg, Ivan Marasović, and Ana Kuzmanić Skelin (University of Split & FESB, Croatia)

SOPHIA: A Student-Oriented Proactive Helper for Intelligent Assistance
Pavlina Mitsou, Zoi Kasapi, Eleni Vrochidou and George A Papakostas (Democritus University of Thrace, Greece)

Humanized AI in Personalized Marketing: Virtual Influencers and Synthetic Salespeople
Ivan Torbica, Robert Rozić, and Robert Slišković (University of Mostar, Bosnia and Herzegovina)

SYM3/II: SYMPOSIUM ON ROBOTICS AND ICT ASSISTED WELLBEING II

Thursday, September 17, 16:30-18:00 (OLEANDAR)

SYM3/II: SYMPOSIUM ON ROBOTICS AND ICT ASSISTED WELLBEING II

Chair: Vladan Papić (University of Split, Croatia)

WellBeat: Serverless Cardiovascular Risk Stratification Integrating ApoB and Environmental Stressors
Arman Khatamsaz (Polytechnic Institute of Turin, Italy); Alex Duchaine and Ehsan Nikpey (Politecnico di Torino, Italy); Guido Pagana (LINKS Foundation & Politecnico of Turin, Italy); Giorgia Riba (Mutuaprivata, Italy)

Edge-Oriented HRV Signal Processing for ICT-Supported Wellbeing Monitoring from Wearable Cardio Signals
Galya Georgieva-Tsaneva (Bulgarian Academy of Science, Bulgaria); Yoan-Aleksandar Tsanev (Technical University of Varna, Bulgaria)

Risk-Sensitive Reinforcement Learning-based Policy for Medical Microrobot in Aortic Stenosis Surger
Sara Ranjbaran (Aalto University, Finland); Seyed Ali Mousavi Fard, Mehdi Naderi Soorki and Seyyed Sajjad Moosapour (Shahid Chamran University of Ahvaz, Iran)

Benchmarking Explainable AI Algorithms in OCD MRI Neuroimaging
Seraphim Moumgiakmas (International Hellenic University, Greece); Zoi Kasapi, Eleni Vrochidou and George A Papakostas (Democritus University of Thrace, Greece)

Design and Initial Experimental Validation of an Agricultural Robot for Weed Control for Small-Scale Operation
Stipe Jurković and Josip Music (University of Split, Croatia)

CLIP-Based Zero-Shot Olive Ripeness Assessment and Robotic Sorting
Mirjana Bonkovic, and Ivona Mlinarević (University of Split, Croatia)

Preparation of a training image database with the aim of improving the detection of small objects in the natural environment
Josip Music, Toma Sikora, Stanko Kruzic, and Vladan Papic (University of Split, Croatia)

SYM4: SYMPOSIUM ON GREEN NETWORKING AND COMPUTING

Thursday, September 17, 11:00 - 12:30 (PALMA)

SYM4: SYMPOSIUM ON GREEN NETWORKING AND COMPUTING

Chair: Josip Lorincz (University of Split, Croatia)

An Empirical Study of Compute Platform Influence on 5G gNB Performance and Energy Efficiency Using srsRAN
Elena-Ramona Modroiu (Technische Universität Berlin, Germany); Sharan Deepak Thakur (Fraunhofer FOKUS, Germany); Kushagra Mishra (Technische Universitaet Berlin, Germany); Thomas Magedanz (Fraunhofer Institute FOKUS / TU Berlin, Germany)

ML-based Non-intrusive TCO Optimization for Media Microservices
Gang Shen (Intel, USA); Bin Li (Intel Labs, USA); Gustavo Malkomes (Lila Sciences, USA); Christian Maciocco (Intel Corp., USA); Hassnaa Moustafa (Intel Corporation, USA); Ravishankar Iyer (Intel Corp, USA)

Online Regret-Minimizing Policy for Cooperative Task Outsourcing in Edge-IoT Networks
Sara Ranjbaran (Aalto University, Finland); Michele Nitti (University of Cagliari, Italy); Mehdi Naderi Soorki (Shahid Chamran University of Ahvaz, Iran)

Power and Temperature Modeling of Raspberry Pis
Filip Idzikowski, Krzysztof Klimaszewski, and Bartosz Witkowski (Poznan University of Technology, Poland)

CONTEL SESSION I

Thursday, September 17, 11:00-12:30 (RUŽMARIN)

CONTEL SESSION I: Cybersecurity, Privacy and Trustworthy AI

Chairs: Mario Kušek, Marin Vuković (University of Zagreb, Croatia)

GenAI-Driven Approach to IoT Cybersecurity Supply Chain Analysis
Nenad Petrovic (University of Nis, Serbia); Dragana Krstic and Dario Javor (University of Niš, Serbia); Mariusz Glabowski and Michał Weissenberg (Poznan University of Technology, Poland); Zoran Popovic (Higher Technical School of Professional Studies Zvečan, Serbia)

Security Testing of the Water Network and IoT Devices
Josip Mrakovčić, and Marin Vukovic (University of Zagreb Faculty of Electrical Engineering and Computing, Croatia)

Empirical Comparison of Centralized and Federated Learning for Intrusion Detection on Unseen Domains
Ana P Jukić, Ivan Sičić, Ivana Podnar Zarko and Martina Antonic (University of Zagreb, Croatia)

Privacy-Preserving Automatic Speech Recognition using CKKS Homomorphic Encryption
Dumitru-Cosmin Melinte and Mircea Giurgiu (Technical University of Cluj-Napoca, Romania)

Soft-Gated Multi-Representation Learning for Secure Voice Authentication
Florica Dolca and Mircea Giurgiu (Technical University of Cluj-Napoca, Romania)

CONTEL SESSION II

Thursday, September 17, 14:30-16:00 (RUŽMARIN)

CONTEL SESSION II: Smart Systems and AI-Driven Applications

Chairs: Maja Matijašević (University of Zagreb, Croatia), Erich Leitgeb (University of Technology, Graz, Austria)

Scenario-Based Communication Architectures for Maritime IoT Buoy Networks
Magdalena Simunec and Mario Kusek (University of Zagreb, Croatia)

Intelligent Soil Monitoring and Smart Irrigation System for Tobacco Cultivation
Remzije Sulejmanoska, Jr (University of Tetovo, Macedonia, the former Yugoslav Republic of); Festim Halili (State University of Tetovo, Macedonia, the former Yugoslav Republic of); Merita-Kasa Halili (State University of Tetovo, the Former Yogoslav Republic of Macedonia)

Evaluation and Integration of Croatian Speech Technologies in a Prototype Virtual Assistant
Renato Soic (University of Zagreb, Croatia); Zeljka Car (University of Zagreb Faculty of Electrical Engineering and Computing, Croatia); Ivo Majerski (Croatian Regulatory Authority for Network Industries, Croatia); Josip Goluža (University of Zagreb, Croatia)

TIMETABLE A			
Thursday, September 17 (Hotel Radisson Blu)			
Time/Hall	**KAKTUS**	**RUŽMARIN**	**PALMA**
8:00-9:00	**REGISTRATION**		
9:00-10:30	S6: Speech and Acoustic Signal Processing	S7: AI/ML based Image Processing	SYM1/I: Symposium on Next Generation Wired and Wireless Networks I
10:30-11:00	**Coffee Break**		
11:00-12:30	SS5: Special Session on Smart Environments and Internet of Things	CONTEL I	SYM4: Symposium on Green Networking and Computing
12:30-14:30	**Lunch**		
14:30-16:00	SYM2/I: Symposium on Security and Data Forensics I	CONTEL II	SS2: Special Session on AI-Enabled UVS/UAV for On-Demand Edge Intelligence
16:00-16:30	**Coffee Break**		
16:30-18:00	SYM2/II: Symposium on Security and Data Forensics II	CONTEL/ CEEPUS	SS1: Special Session on New Trends in Satellite and Space Communications and Navigation
Friday, September 18 (Hotel Radisson Blu)			
Time/Hall	**KAKTUS**	**RUŽMARIN**	**PALMA**
08:00-09:00	**REGISTRATION**		
09:00-10:30	S2: Network Operations and Management	S1: 5G & B5G Technologies	S5: Data Processing
10:30-11:00	**Coffee Break**		
11:00-12:30	**Opening ceremony and keynote speech:** **Z. Lemaster:** *Adapting AI Agents for Telecom Networks: From Intent-Driven Management to Autonomous Operations* **(GRAND BALLROOM)**		
12:30-14:30	**Conference Luncheon**		
14:30-16:00	W1: Workshop on Information Security and Intellectual Property **(KAKTUS)**	S3: AI in Software Development **(RUŽMARIN)**	
16:00-16:30	**Coffee Break**		
16:30-18:00	SYM2/III: Symposium on Security and Data Forensics III **(KAKTUS)**	CONTEL / COBCOM I **(RUŽMARIN)**	
18:30-20:00	**Social program: Guided tour in Diocletian's Palace**		
20:00-23:00	**Social program: The Evening in the Theatre Foyer**		
Saturday, September 19 (Hotel Radisson Blu)			
Time/Hall	**KAKTUS**	**RUŽMARIN**	**PALMA**
08:30-10:00	S8: AI/ML Applications in Biomedicine	S4: AI/ML Methods and Applications	SYM1/II: Symposium on Next Generation Wired and Wireless Networks II
10:00-10:30	**Coffee Break**		
10:30-12:00	WICT: Workshop on Information and Communications Technologies	CONTEL / COBCOM II	SS4: Special Session on Advanced Educational Technologies
12:30-16:30	**Conference trip – Klis Fortress and the Vineyard Tour**		

TIMETABLE B		
Thursday, September 17 (Hotel Radisson Blu)		
Time/Hall	**OLEANDAR**	**AGAVA**
08:30-09:00	**REGISTRATION**	
09:00-10:30	SS6: Special Session on Ad-Hoc & Sensor Networks and Internet of Things	Tutorial T1: *Human Exposure to Electromagnetic Fields – Computational Models in Dosimetry* D. Poljak, and M. Cvetković
10:30-11:00	**Coffee Break**	
11:00-12:30	Panel: Digital Transformation with EDIHs – experience, results and further steps	SS3: Special Session on Environmental Electromagnetics Compatibility (EEMC)
12:30-14:30	**Lunch**	
14:30-16:00	SYM3/I: Symposium on Robotics and ICT Assisted Wellbeing I	Tutorial T2: *From Tissue Dielectric Properties to Smart Microwave Ablation Applicators: Principles, Methods, and Challenges* M. Cavagnaro, and K. Vidjak
16:00-16:30	**Coffee Break**	
16:30-18:00	SYM3/II: Symposium on Robotics and ICT Assisted Wellbeing II	SoftCOM 2026 Student Track
Friday, September 18 (Hotel Radisson Blu)		
Time/Hall	**OLEANDAR**	**AGAVA**
8:00-9:00	**REGISTRATION**	
9:00-10:30	WFIRE	Workshop on Computer Vision and Artificial Intelligence in Fruit Cultivation
10:30-11:00	**Coffee Break**	
11:00-12:30	**Opening ceremony and keynote speech:** **Z. Lemaster:** *Adapting AI Agents for Telecom Networks: From Intent-Driven Management to Autonomous Operations* **(GRAND BALLROOM)**	
12:30-14:30	**Conference Luncheon**	
14:30-16:00	Research Alignment Workshop II: Human-Centered Adoption of Large Language Models **(AGAVA)**	
16:00-16:30	**Coffee Break**	
16:30-18:00	ERICSSON NIKOLA TESLA SUMMER CAMP 2026 WORKSHOP	Roundtable: ERIT – Establishing a Regional Innovation and Technology Transfer Ecosystem
18:30-20:00	**Social program: Guided tour in Diocletian's Palace**	
20:00-23:00	**Social program: The Evening in the Theatre Foyer**	
Saturday, September 19 (Hotel Radisson Blu)		
Time/Hall	**OLEANDAR**	**AGAVA**
08:30-10:00	Roundtable: Towards a Shared Excellence Hub **(AGAVA)**	
12:30-16:30	**Conference trip – Klis Fortress and the Vineyard Tour**	

Detection of Anomalous Player Behavior in FPS Games by Analyzing Records
Lukas Kraljić, Antonia Žaja and Magdalena Simunec (University of Zagreb, Croatia); Marin Vukovic (University of Zagreb Faculty of Electrical Engineering and Computing, Croatia)

Feedback Control of HVAC Systems Using Digital Twin Synchronization in Smart Campus Environments
Erilda Muka (Canadian Institute of Technology, Albania); Galia Marinova (Technical University of Sofia, Bulgaria & Technical University-Sofia, Bulgaria)

CONTEL/CEEPUS SESSION

Thursday, September 17, 16:30 - 18:00 (RUŽMARIN)

CONTEL/CEEPUS SESSION: Smart Systems, Digital Twins and Edge Intelligence

Chairs: Galia Marinova (Universitly of Sofia, Bulgaria), Martina Antonić (University of Zagreb, Croatia)

Holoscopy: A Modular Platform for Collaborative Endoscopic Streaming and Medical Education
Martina Antonic and Josip Lučić (University of Zagreb, Croatia); Željko Tadić (SMALT IT d.o.o, Croatia)

Capacity of a Duty-Cycled LoRaWAN Communication Window for Buffered Telemetry: An Antarctic Case Study
Nikolay Milovanov (New Bulgarian University, Bulgaria)

Explainability-Guided Feature Reduction for Lightweight Edge Occupancy Detection in Smart Spaces
Meriton Ibraimi (University of Tetova, Macedonia, the former Yugoslav Republic of); Festim Halili and Merita Kasa Halili (State University of Tetovo, Macedonia, the former Yugoslav Republic of)

Digital Twin-Based Smart Port Optimization Using LSTM Forecasting
Manjola Zeneli (Academic & Assistant Lecturer, Albania); Galia Marinova (Technical University of Sofia, Bulgaria & Technical University-Sofia, Bulgaria)

A 3D Digital Twin Framework for Smart Microgrids: Template-Driven Scene Generation and Per-Mechanism Loss Projection
Elton Boshnjaku (Technical University of Sofia, Bulgaria); Galia Marinova (Technical University of Sofia, Bulgaria & Technical University-Sofia, Bulgaria)

Simulation-based Communication-Aware DRL for Smart Microgrids
Vassil Guliashki (Institute of Information and Communication Technologies - BAS, Bulgaria)

Unsupervised 1D CNN-Based False Data Injection Detection in Smart Microgrid Power Layer Monitoring
Behar Haxhismajli (Technical University of Sofia, Bulgaria); Galia Marinova (Technical University of Sofia, Bulgaria & Technical University-Sofia, Bulgaria)

CONTEL/COBCOM SESSION I

Friday, September 18, 16:30-18:00 (RUŽMARIN)

CONTEL/COBCOM SESSION I: Advanced Wireless Communications and IoT

Chairs: Erich Leitgeb, Daniel Kraus (University of Technology, Graz, Austria)

Influence of Climate change on wireless mmWave propagation
Tra My Tran and János Bitó (Budapest University of Technology and Economics, Hungary)

Symbol Detection Using Decoupled Filtering Based Estimation in MIMO OFDM Wireless Communication
Basabadatta Mohanty (IIIT Bhubaneswar, India); Harish Kumar Sahoo (Veer Surendra Sai University of Technology, India)

Range Enhancement of Backscatter Communication for Ambient IoT via LDPC Coding
Anas Elmesmari (Universität Kassel, Germany); Nour Mansour and Dirk Dahlhaus (University of Kassel, Germany)

Trusted and Dynamic Resource Sharing in 5G for Energy Efficient Multimedia Service Provision
Georgios Christos Tziavas and Dionysia Varvarigou (University of Patras, Greece); Sotirios Milionis and George T. Karetsos (University of Thessaly, Greece); Konstantinos Lampropoulos, Charalampos Gkizas and Spyros Denazis (University of Patras, Greece)

Network Management Reliability Enabled by LLM: Analysis of Channel Capacity Case in the Presence of Beaulieu-Xie Fading
Dragana Krstic (University of Niš, Serbia); Suad Suljovic (MB University, Serbia); Nenad Petrovic (University of Nis, Serbia); Mariusz Glabowski (Poznan University of Technology, Poland)

Human-Centered Exploration of Organizational Readiness for AI Adoption Before Deployment
Tihana Galinac Grbac, Sabina Lacmanović and Roberta Kontošić Pamić (Juraj Dobrila University of Pula, Croatia)

CONTEL/COBCOM SESSION II

Saturday, September 19, 10:30-12:00 (RUŽMARIN)

CONTEL/COBCOM SESSION II: Emerging Technologies and Smart Applications

Chairs: Dragana Krstić (University of Niš, Serbia), Gordan Ježić (University of Zagreb, Croatia)

Quantum Explorer: An educational Toolkit for demonstrating Quantum Effects in Schools
Albert Huber (Technikum Wien, Austria); Andreas Drauschke (University of Applied Sciences Technikum Wien, Austria); Frank Reil (Joanneum Research Materials, Austria); Gabriel Anthony Giardina and Elias Eingang (UAS Technikum Vienna, Austria); Erich Leitgeb (Graz University of Technology, Austria); Dana Seyringer (Vorarlberg University of Applied Sciences (FHV), Austria)

160-Channel AWG Spectrometer for Miniaturized Raman-Based Milk Quality Monitoring
Dana Seyringer (Vorarlberg University of Applied Sciences (FHV), Austria); Matthias Domke (FHV - Vorarlberg University of Applied Sciences, Austria); Norbert Życzyński (Rzeszów University of Technology, Poland); Fadi Dohnal (FHV - Vorarlberg University of Applied Sciences, Austria); Erich Leitgeb (Graz University of Technology, Austria); Tadeusz Olejarz (Rzeszów University of Technology, Poland)

Triple Integrator Based PID Controller Design
Mikulas Huba (Slovak University of Technology in Bratislava, Slovakia); Teofana Puleva (Technical University Sofia, Bulgaria); Alexandar Kamenov Ichtev (Technical University of Sofia, Bulgaria); Pavol Bistak (Slovak University of Technology in Bratislava, Slovakia)

From CAPEX to OPEX: A Metering-as-a-Service Model for LPWAN Smart Water Metering Deployments
Nikolay Milovanov (New Bulgarian University, Bulgaria)

Saturday, September 19, 10:30-12:00 (KAKTUS)

PAS1: POSTER / ABSTRACTS SESSION

Chair: Maja Škiljo (University of Split, Croatia)

A Regression-Based Framework for Separating Personal Uplink Exposure from Ambient Radiofrequency Fields: Combining Smartphone Telemetry with Body-Worn Exposimetry
Muzammal Amin (University of Turin, Italy); Chiara Pedroli (Arpa Piemonte, Italy); Enrica Caputo (ARPA Piemonte, Italy); Anna Vignati (University of Turin, INFN (Torino), Italy)

PROFESSIONAL PROGRAM

Saturday, September 19, 10:30-12:00 (KAKTUS)

WICT: Workshop on Information and Communications Technologies

Chair: Maja Škiljo (University of Split, Croatia)

Network-Assisted Headway Selection and Software-Induced Capacity in Homogeneous ACC Vehicle Streams
Gianluca Mazzini (University of Ferrara, Italy)

From Control to Orchestration: Transformation of Data Governance in the AI Era
Snjezana Rosandic and Edita Škec (Ericsson Nikola Tesla, Croatia); Katarina Babić and Dinko Begusic (University of Split, Croatia)

Approximate integration defined in Java and Python
Mauro Pullin (University of Padova & Studio Ing. Mauro Pullin, Italy)

Didactic introduction to lambda-calculus
Mauro Pullin (University of Padova & Studio Ing. Mauro Pullin, Italy)

High-Precision Temperature Sensor Architecture for Human-Mimicking Phantoms
Stanisław Nowak, Grzegorz Cichocki, Paweł Żelazek, Wojciech Leszczyński, Krzysztof Cichoń and Cyryl Prentki (Poznan University of Technology, Poland)

Software Defined Radio for Attacks and Intrusion Detection in Wireless Networks
Nikola Danilović (Faculty of Electrical Engineering, Computer Science and Information Technology Osijek, Croatia); Kresimir Grgic (Josip Juraj Strossmayer University of Osijek, Croatia)

GNSS Spoofing Detection Using Discrete Wavelet Transform and Support Vector Machines
Nika Ćatipović, Katarina Babić, and Dinko Begušić (University of Split, Croatia)

W1: WORKSHOP ON INFORMATION SECURITY AND INTELLECTUAL PROPERTY

Friday, September 18, 14:30 - 16:00 (KAKTUS)

INVITED TALK

Ines Medić, LL.D.
Faculty of Law, University of Split

Migrant's Personal Data - between Protection and Securitization

Summary: In a world where artificial intelligence, machine learning systems and biometrics are part of everyday life one must be fully aware of the potential consequences of sharing a personal data. New technologies, still incomprehensible and unknown to many, pose a challenge even for a residents of developed countries. For most people, their use and impact on personal data protection, privacy and fundamental rights still remain vague and „someone else's bussiness“. While (thanks to the GDPR) it may go without (or with minor) consequences for the EU nationals, it is entirely different „game“ when it comes to migrants' population. Despite civil society organisations' warnings that these technologies might compromise data protection as well as fundamental rights of a migrant population, the EU Pact on Asylum and Migration further integrates an advanced digital technologies in the migration management. What started as an administrative coordination tool quickly turned into the EU's migration management apparatus. The „securitization“ seems to prevail over protection, which creates severe privacy risks. The aim of this talk is to present the impact of this change on data protection, privacy and fundamental rights.

Key words: migrants, personal data protection, privacy, human rights, securitization

Biography: Full professor Ines Medić is employed at the Faculty of Law, University of Split. She is the Head of the Department of Private International Law (since 2009), Head of the Institute of International Law (since 2024), President of the Quality Improvement Committee of the Faculty of Law (since 2024), Member of the Council of the Quality Improvement Center of the University of Split (since 2024), Head of the University Postgraduate Doctoral Study of Legal Sciences of the Faculty of Law of the University of Split (since 2024), Member of the Editorial board of the Maritime Library of the Literary Circle of Split (since 2017). Prof. Medić teaches courses in Private International Law, European Family, Private International and Procedural Law, Mediation, International Sports Law and Health Law. She is the author and co-author of scientific papers, book and book chapters in Croatian and English and has presented at domestic and international scientific conferences in the Republic of Croatia and abroad. She is the leader of the internal scientific research project of the Faculty of Law, University of Split – "The Impact of Migration on Status Issues" (10. 1. 2025.-10. 1. 2027.). She is also the leader of the institutional research project of the University of Split – "Migration Management – Experiences and Perspectives (UMIP)", IP-UNIST-50 (1. 10. 2025. – 30. 9. 2029.); and member or national expert in EU projects and bilateral projects with Republic of Slovenia. As a member of Working Groups appointed by different Ministries she participated in preparation of Draft Proposals of several Laws. In the organization of the Supreme Court of the Republic of Croatia and the Judicial Academy, she created materials and conducted training for judges of municipal and county courts.

W1: Workshop on Information Security and Intellectual Property (ISIP)

Chair: Marija Boban (University of Split, Croatia), Gordan Ježić (University of Zagreb, Croatia)

Maritime Cybersecurity in the Adriatic: An NIS2-Driven Resilience Framework
Marija Gombar (Hrvatska, Croatia & University North, Croatia); Marija Boban, and Tonći Prodan (University of Split Faculty of Law, Croatia)

Shadow AI and Risky Disclosure of Business Information in the Workplace
Linda Martić Kuran, Vedran Uroš, and Damir Mihanović (University of Applied Sciences Marko Marulic of Knin, Croatia)

NFTs and Copyright Law
Marija Boban, and Krešimir Dadić (University of Split Faculty of Law, Croatia)

Third Country Nationals'Personal Data - between Protection and Securitization
Ines Medić (University of Split, Croatia)

TUTORIALS

TUTORIAL T1 Thursday, September 17, 9:00 – 10:30 (AGAVA)

Dragan Poljak, and Mario Cvetković PhD
University of Split, FESB, Split, Croatia

Human Exposure to Electromagnetic Fields – Computational Models in Dosimetry

Summary: This Tutorial is based on the book, D. Poljak, M. Cvetkovic, Human Interaction with Electromagnetic Fields; Computational Models in Dosimetry, Elsevier 2019 and D. Poljak, A. Susnjara, "Deterministic and Stochastic Modeling in Computat. Electromagnetics," IEEE Press/Wiley, New Jersey, 2024 and on some recent journal/conference papers and recent presenters' activities in IEEE ICES SC6 Working Groups and IRPA NIR task group. Tutorial covers twofold aspects of human exposure to electromagnetic fields (EMF); the undesired exposure from artificial EMF sources and the biomedical applications of electromagnetic fields. Tutorial deals with some basic environmental aspects of electromagnetic fields, coupling mechanisms between human body and electromagnetic field, well-established biological effects of electromagnetic fields from static to high-frequency range, international safety guidelines related to limiting exposures to those fields, including relevant exposure limits, electromagnetic-thermal dosimetry models and the related analytical/numerical solution methods of governing equations. Finally, some recent findings arising from the activities carried out within the framework of IEEE ICES working groups, which Tutorial presenters participated (WG2, WG3, WG5 and WG7) and IRPA TG NIR will be reported.

First, theoretical/experimental methods of incident field dosimetry for the assessment of external fields due to low frequency (LF), intermediate frequency (IF) and high frequency (HF) sources are presented including a number of typical examples that cover exposures to power lines, transformer substations, PLC systems, RFID antennas, Wireless Power Transfer (WPT) systems and radio base stations pertaining to 2G/3G/4G and 5G mobile communication systems. Then, the tutorial presents in detail some efficient electromagnetic-thermal dosimetry methods for the assessment of human exposure to low frequency (LF), intermediate frequency (IF), high frequency (HF) and transient electromagnetic radiation featuring the use of integral/differential equation formulations and related numerical solution techniques (primarily based on the use of Boundary Element Method – BEM, Finite Element method – FEM hybrid BEM/FEM and Moment Method (MoM) approaches) for the evaluation of induced current densities, internal fields, specific absorption rate (SAR), incident power density (IPD), absorbed power density (APD), transmitted power density (TPD) and specific absorption (SA). Also, for HF exposures the related temperature elevation in tissues is of interest. In particular, for GHz frequency range, as far as 5G systems are of interest, a surface temperature increase on the air-body interface is analyzed. Illustrative computational examples pertain to typical realistic exposure scenarios, such as; pregnant woman/foetus exposed to low frequency (LF) fields, the human eye, the brain, the eye and the entire human head exposed to HF radiation. In particular, for exposure within GHz frequency range, several tissue models, from rather simple to more realistic, will be addressed. The obtained numerical results for induced current densities, internal fields, SAR, IPD, APD TPD and SA are compared against exposure limits proposed by recently issued ICNIRP 2020 (International Commission on Non Ionizing Radiation Protection). This is followed by various examples of biomedical applications of electromagnetic fields, including the transcranial magnetic stimulation (TMS), transcranial electrical stimulation (TES), but also some electrotherapy and magnetotherapy techniques. Also, some illustrative computational examples pertaining to thermal modeling of certain ophthalmological procedures will be given.

In the last part of the Tutorial the stochastic modeling of electromagnetic fields is addressed. This part of the Tutorial is mostly based on the book: D. Poljak, A. Susnjara, "Deterministic and Stochastic Modeling in Computat. Electromagnetics," IEEE Press/Wiley, New Jersey, 2024. Note that the input parameters of models used in bioelectromagnetics suffer from uncertainties in input data set. The values of body tissue parameters such as permittivity and the electrical conductivity vary significantly, depending not only on the age and gender, but also between healthy and ill individuals. Moreover, they are obtained under different measurements on ex vivo animal and human tissues, and exhibit relatively appreciable variations from their average values. When used in computational models, these average values sometimes may result in a rough approximation of realistic scenarios. The models used in bioelectromagnetics are computationally rather demanding as they represent rather complex physical phenomena. Consequently, uncertainty quantification (UQ) based on traditional Monte Carlo method appears to be computationally rather expensive. Therefore, alternative methods such as generalized polynomial chaos and stochastic collocation have become of interest to many researchers in this research area. In this tutorial, a primer on the application of stochastic collocation (SC) and several illustrative examples are given. Finally, a sensitivity analyis (SA) techniques on the impact of individual input parameters will be presented.

Dragan Poljak *received his PhD in el. Eng. in 1996 from the Univ. of Split, Croatia. He is the Full Prof. at Dept. of Electron. and Computing, Univ. of Split. His research interests include computational electromagnetics (electromagnetic compatibility, bioelectromagnetics, ground penetrating radar and plasma physics). To date Prof. Poljak has published more than 160 journ. and 250 conf. papers, and authored some books, e.g. two by Wiley, New Jersey and one by Elsevier, St Louis. He is a Senior member of IEEE, a member of Editorial Board of Eng. Anal. with Boundary Elements, Math. Problems in Eng. And IET Sci. Measur. & Techn. He was awarded by several prizes for his research achievements, such as National Prize for Science (2004), Croatian sect. of IEEE annual Award (2016), Technical Achievement Award of the IEEE EMC Society (2019), George Green Medal from University of Mississippi (2021), IEEE Standards Associations – Certificate of Appreciation, 2022 and National Prize for Science (2023). From May 2013 to June 2021 Prof. Poljak was a member of the board of the Croatian Science Foundation. He was involved in ITER physics EUROfusion collaboration and he is currently involved in IFMIF-DONES EUROfusion collaboration and in Croatian center for excellence in research for tech. sciences. He is active in few Working Groups of IEEE/Internat. Committee on Electromagnetic Safety (ICES) Tech. Comm. 95 SC6 EMF Dosimetry Modeling, (co-chair of WG2 and WG7) and Task Group of Nonionizing Radiation of International Radiation Protection Association (IRPA).*

Mario Cvetković *received his B.S. degree from the University of Split, Split, Croatia, in 2005, the M.Phil. degree from Wessex Institute of Technology, University of Wales, Cardiff, U.K., in 2009, and the Ph.D. degree from the University of Split in 2013. He is currently Chair for Fundamentals in electrical engineering and an Associate Professor with the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB), University of Split, Croatia. To date, he has co-authored more than 100 papers published in international journals and conference proceedings and several book chapters. In 2019 he coauthored a book entitled "Human Interaction with Electromagnetic Fields – Computational Models in Dosimetry" published by Elsevier. His research interests include numerical modeling with finite elements and method of moments, computational bioelectromagnetics, and heat transfer related phenomena. He held a series of tutorials and seminars related to advanced topics in bioelectromagnetics and various aspects of interaction of humans with electromagnetic fields at: Technical University of Ilmenau, Germany (2010), Malardalen University, Vasteras, Sweden (2014, 2018), Nagoya Institute of Technology, Nagoya, Japan (2017, 2023), University of Maribor, Slovenia (2018, 2019), Hohai University Nanjing, China (2025), several SpliTech conferences (2016, 2017, 2018, 2019, 2020, 2023, 2024, 2025), and SoftCOM conferences (2019, 2021, 2022). He is a Member of the International Committee on Electromagnetic Safety (ICES) Technical Committee 95 and its Subcommittee 6 EMF Dosimetry Modeling where he also served as a Working Group 2 secretary from 2017-2019. He was the recipient of the Best Student Paper Award, awarded at the 16th Edition of the International Conference SoftCOM 2008.*

TUTORIAL T2 — Thursday, September 17, 14:30 – 16:00 (AGAVA)

Marta Cavagnaro, PhD
Sapienza University of Rome, Rome, Italy

Klementina Vidjak, PhD
University of Split, FESB, Split, Croatia

From Tissue Dielectric Properties to Smart Microwave Ablation Applicators: Principles, Methods, and Challenges

Summary: Microwave thermal ablation (MTA) is a therapeutic technique used for the in-situ destruction of malignant tissue. This tutorial first introduces the MTA technique and then briefly discusses current state-of-the-art technologies used for treatment guidance, monitoring, and post-procedure outcome assessment, highlighting the open challenges related to real-time feedback and reliable ablation-zone control. The second part of the tutorial focuses on the main principles and mechanisms that underly the MTA technique. Dielectric properties are discussed first, since they determine the "reaction" of the tissues to the applied electromagnetic field. The behaviour of dielectric properties with the frequency, their changes during MTA heating and the methods used for their measurement are described. Particular emphasis is placed on the open-ended coaxial probe technique, one of the most widely used methods for dielectric characterization at microwave frequencies. The role of dielectric properties in applicator design, numerical modelling, treatment planning, and ablation-zone prediction is discussed, together with the practical limitations of conventional dielectric measurement approaches. Based on these considerations, the tutorial identifies a key technological gap in current MTA systems: while microwave applicators are primarily designed for energy delivery, they typically

provide limited direct information about the evolving tissue state during treatment. Finally, the tutorial presents an emerging solution based on using the MTA applicator itself as a sensing device for in-situ dielectric spectroscopy, including results from ongoing research within the presenters' research group. This approach has the potential to support real-time monitoring, ablation-zone estimation, and the development of smarter, feedback-controlled microwave ablation systems.

Marta Cavagnaro *(M'00, SM'22) received the cum laude Electronic Engineering degree (1993) and the Ph.D. degree (1997) in Electronic Engineering from Sapienza University of Rome, Rome, Italy. She is Associate Professor at the Department of Information Engineering, Electronics and Telecommunications of the same university. Her research interests are related to dosimetric aspects of the interaction between electromagnetic fields and biological systems, as medical applications, measurements of dielectric properties of tissues, and environmental impact of mobile communication systems. She is Associate Editor of the Bioelectromagnetics journal (Wiley), Sensors (MDPI), and serves as anonymous reviewer for several scientific journals. She is a member of the Thermal Medicine Standard Committee of ASME (The American Society of Mechanical Engineers), and a member of the Italian CEI TC106 devoted to standardization issues related to human exposure to electromagnetic fields. She participated in several EU funded COST action related to medical applications of electromagnetic fields (EMFMED, MiMed, MyWAVE). She is vice Chair of the Technical Community on Therapeutic & Diagnostic Systems and Technologies (TC-TDST) of IEEE EMBS. She is author or co-author of more than 200 scientific papers.*

Klementina Vidjak *received the summa cum laude Master's degree in Electronics and Computer Engineering in 2020 from the University of Split, Croatia, and the Ph.D. degree in Information and Communication Technologies from Sapienza University of Rome, Rome, Italy, in 2024, cum laude. She is currently a postdoctoral researcher at the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture — FESB, University of Split. Her research interests are related to applied electromagnetics, biomedical applications of electromagnetic fields, dielectric characterization of biological tissues, electromagnetic dosimetry, and microwave-based therapeutic and diagnostic technologies. She serves as an anonymous reviewer for several scientific journals and is an IEEE member.*

BUSINESS FORUM

Thursday, September 17, 11:00-12:30 (OLEANDAR)

PANEL: Digital Transformation with EDIHs – experience, results and further steps

Format: Hybrid (live Radisson Blu Resort & Spa, Put Trstenika 19, 21000, Split) + online)

European digital innovation hubs (EDIH) help small and medium enterprises and public institutions in digital transformation. The range of activities includes the consulting and testing of new technologies, and access to EU programmes for financing and international networks. The panel is aimed to users of EDIH services who are interested in the information on the new possibilities brought by EDIH 2.0 project which is scheduled for the period 2026-2029. The special focus is on the topic of AI transformation.

Panelists

Hrvoje Džapo (EDIH CROBOHUB++, coordinator)

Mario Vukelić (EDIH ADRIA, project leader)

Anja Barešić (EDIH AI4Health.Cro, coordinator)

Ana Fresl (AI & gaming EDIH, project associate)

Damir Brčić (Digital Dalmatia, County of Split and Dalmatia, Head of IT and Common affairs)

Marina Tavra (Tehnološki park Split, Head of the department for Smart city i digitalization)

Moderator: **Petar Roje** (University of Split, Head of the Sub-department for Innovation, Knowledge Transfer, and Technology)

Presentation of the EDIH 2.0

Jadranka Lovrić (EDIH CROBOHUB.AI, coordinator)

Mario Vukelić (EDIH ADRIA, project leader

Anja Barešić (EDIH AI4Health.Cro, coordinator)

Ana Fresl (AI & gaming EDIH, project associate)

Friday, September 18, 09:00-10:30 (AGAVA)

2nd Workshop on Computer Vision and Artificial Intelligence in Fruit Cultivation

ORGANIZING COMMITTEE

- Prof Vladan Papić, University of Split, FESB, Croatia, vpapic@fesb.hr
- Prof Vassilis Kaburlasos, International Hellenic University (IHU), Greece, vgkabs@ihu.gr
- Prof Frane Strikić, University of Split, University Department of Marine Studies, Croatia, frane.strikic@unist.hr

Timetable:

- Introduction (15 min)
- „Fruit Yield estimation using computer vision“ dr.sc. Stanko Kružić (20 min)
- „Multispectral analysis of olive fruits - overview“ Ana Šarić Gudelj (20 min)
- Current status and future research (15 min)
- Discussion (20 min)

Workshop supported by the Croatian Science Foundation under the project number HRZZ IP-2024-05-6393.

Workshop is linked with project HRZZ IP-2024-05-6393 (COVIO) - Computer Vision in Olive Fruit Detection and Yield Estimation
Expected number of attendants: 10

Friday, September 18, 17:00-18:00 (AGAVA)

ROUNDTABLE: ERIT – Establishing a Regional Innovation and Technology Transfer Ecosystem

ERIT is a cross-border project aimed at strengthening research, innovation and technology transfer capacities in Croatia, Bosnia and Herzegovina, and Montenegro. The project will establish three Technology Transfer Offices, develop a joint cross-border innovation and technology transfer strategy, and create a digital collaboration platform. As part of the planned project tasks and activities, the following topics will be discussed within this roundtable:

How can stronger links between academia, industry and public institutions support innovation and bring research results closer to the market? The discussion will focus on the role of Technology Transfer Offices in research commercialization, intellectual property management and cooperation with industry. It will also address cross-border knowledge exchange and the development of a digital platform that will provide online access to networking, collaboration and innovation support services. The discussion will explore how these tools and support structures can contribute to a more connected, competitive and sustainable regional innovation ecosystem.

Moderator: Vladan Papić, University of Split, Croatia

ERIT | Interreg | Co-funded by the European Union
IPA Croatia – Bosnia and Herzegovina – Montenegro

Friday, September 18, 16:30-18:00 (OLEANDAR)

WESC: ERICSSON NIKOLA TESLA SUMMER CAMP 2026 WORKSHOP

Celebrating its 25th anniversary, ENT Summer Camp is a long-standing talent development program jointly driven by Ericsson Nikola Tesla and the academic community. Since its launch in 2001, more than 1,100 students have participated in the program, working on real-world R&D challenges under the mentorship of industry experts. The workshop will reflect on the evolution of technologies, skills, and collaboration models that have shaped the program over the past 25 years and discuss its impact on students, academia, industry, and the broader innovation ecosystem.

Agenda

Introduction: Highlights from ENT Summer Camp 2026

Part 1: 25 Years of ENT Summer Camp: Building Talent Through Industry-Academia Collaboration - Panel discussion

Moderator

- Andrej Grgurić – Director of ENT Research and Innovation Unit since 2024

Participants:

- Darko Huljenić – ENT Director of Research until 2023
- Maja Matijašević – Professor, University of Zagreb Faculty of Electrical Engineering and Computing
- Dinko Begušić - Professor, University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture

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Part 2: Technologies, Tools and Experiences

Presentations by student participants of the 2026 ENT Summer Camp, highlighting technologies used, technical challenges and lessons learned while working on real-world research and development topics under industry mentorship.

Part 3: Voices of the Next Generation

Interactive panel with participants of the 2026 ENT Summer Camp

Moderator

- Duje Žaja – Research and Innovation Unit, Ericsson Nikola Tesla

Topics:

- What motivated students to join ENT Summer Camp
- Experience of working on real industrial R&D projects
- Skills and competences gained beyond formal education

Thursday, September 17, 16:30-18:00 (AGAVA)

SOFTCOM 2026 STUDENT TRACK

Chair: Saša Mladenović, University of Split, Croatia

Purpose of the Workshop

This workshop provides a unique opportunity for undergraduate, graduate and integrated-study students to present their professional and research work, bachelor's and master's theses, as well as practical projects to an international audience of experts, university professors and representatives of industry.

The aim is to encourage the exchange of knowledge, provide students with experience in public presentation, and offer valuable feedback for their further professional development.

The main topics of student presentations cover a broad range of Information and Communication Technologies (ICT), including:

- Communication Technologies
- Mobile networks (5G/6G), optical communications, satellite communications.
- Software Engineering
- Application development, advanced software architectures, software testing methods.
- Internet of Things (IoT) and Embedded Systems
- Smart homes, smart cities, sensor networks.
- Artificial Intelligence and Machine Learning
- Applications of AI in data analysis, computer vision and natural language processing.
- Network Security and Cryptography
- Data protection, privacy in the digital world, blockchain technologies.

Presentation Structure and Format

- Oral presentation supported by PowerPoint or a similar presentation tool.
- Virtual presentation using a pre-recorded presentation.

Duration: Each student has 10 to 15 minutes for the presentation, followed by a short discussion and questions from the audience (5 minutes).

Language: The official language of the conference and the workshop is English. Exceptionally, presentations may be delivered in Croatian, although English is recommended to support international visibility.

Why Participate?

Experience: Gain experience in presenting research and professional results in an international conference environment.

Networking: Connect with potential employers from the ICT sector and with professors and students from other universities.

Friday, September 18, 9:00-10:30 (OLEANDAR)

WORKSHOP on Contemporary Technologies in Firefighting

with Emphasis on Wildland Fires

Workshop objective

The workshop aims to present the operational needs of the firefighting system and concrete examples of how contemporary technologies can be applied to preventing, suppressing, monitoring, and analyzing wildland fires. The workshop focuses on remote sensing and monitoring, satellite data, UAV systems, GIS, IoT, advanced communication technologies, large-scale data processing, and the education and training of firefighting personnel. By integrating operational, educational, and research perspectives, the workshop explores how advanced technologies can improve situational awareness, support evidence-based risk assessment, and speed up and improve decision-making across all phases of fire management. The workshop also emphasizes integrating and interoperating heterogeneous data sources and digital systems, which are essential for creating reliable decision-support environments in complex, rapidly changing wildfire scenarios. In addition, the workshop highlights the importance of simulation, predictive modeling, and data-driven analysis to strengthen preparedness, optimize resource deployment, and improve the safety of both firefighters and affected communities. Through closer cooperation among firefighting organizations, educational institutions, and the scientific community, the workshop seeks to contribute to the development of more resilient, technologically advanced, and knowledge-based approaches to modern fire and emergency management.

Topics and Speakers

Introduction and the Need for New Technologies in Firefighting — Slavko Tucaković, Chief Fire Commander

Education for the Application of Contemporary Technologies in Firefighting — Ante Sanader, President of the Croatian Firefighting Association

Through the Prism of Contemporary Technologies: Chemical Sciences in Firefighting Education — Ozana Mišura and Damir Knežević, State Firefighting School

New Technologies in the Service of Firefighting — Siniša Petkoviček and Igor Magdalenić, Croatian Firefighting Association

Electric Vehicles in Firefighting Operations – From Risk Identification to Safe Decision-Making — Vladimir Balentović, Professional Firefighting Brigade Zupanja

Tracking Personnel and Equipment Using LoRa Technology and IoT Systems — Vladimir Pleština and Josip Šabić, FESB

FirePropagator – Simulation of Wildland Fire Spread — Sven Gotovac, FESB

Online Transmission of UAV Data to Remote Locations — Ante Ivanović and Pino Gotovac, FESB

Closing Panel Discussion: From Technological Possibilities to Operational Application in Firefighting — Workshop speakers and representatives of the Croatian Firefighting Association, State Firefighting School, FESB, and students

HRVATSKA VATROGASNA ZAJEDNICA

DRŽAVNA VATROGASNA ŠKOLA

Friday, September 18, 14:30-16:00 (AGAVA)

Research Alignment Workshop II

Human-Centered Adoption of Large Language Models
Towards Cross-Domain Evidence, Comparative Studies, and Systematic Adoption Frameworks

Scientific Organizing Committee

chair: Tihana Galinac Grbac, Juraj Dobrila University of Pula, Croatia
Darko Huljenić, University of Zagreb, Croatia
Dinko Begušić, University of Split, Croatia
Dražen Brščić, Kyoto University, Japan
Ana Milanova, Rensselaer Polytechnic Institute, USA

Workshop Programme

14:30-14:40 - Introduction and Research Framework
From the MIPRO pilot study towards cross-domain comparative research on human-centered LLM adoption.

14:40-15:15 - Case-Study Presentations

Selected short presentations of LLM applications from different domains, reflected through a common analytical framework. Confirmed case-study presentations and presenters will be announced.

15:15-15:45 - Structured Reflection and Moderated Cross-Domain Discussion
Discussion of recurring human-centered and socio-technical challenges, benefits, evaluation approaches, transferability, and limitations of the proposed analytical framework.

15:45-16:00 - Framework Refinement and Future Research
Synthesis of observations, refinement of the analytical framework, and discussion of future research and publication opportunities.

Participation

Researchers and practitioners are welcome to participate with or without a presentation. No separate paper submission is required and no additional registration fee is required for workshop participation.

Interested in presenting a case study? For presentation submission, please use the EDAS system: Submit via EDAS or if you do not want use presentation slides but just give short talk please contact Tihana Galinac Grbac at **tihana.galinac@unipu.hr**. Confirmed case-study presentations will be announced as part of the workshop programme.

Workshop webpage: https://tgalinacgrbac.github.io/workshop/
The workshop continues the Research Alignment initiative launched at MIPRO 2026 and is organised within the **EQUYSIS – Human-Centered System Design for Equitable and Sustainable Digital Societies** research project at Juraj Dobrila University of Pula.

This workshop is supported by the EU NextGeneration under the Juraj Dobrila University of Pula institutional research project **EQUYSIS – Human-Centered System Design for Equitable and Sustainable Digital Societies**, project number IIP_UNIPU_010162.

Financira
Europska unija
NextGenerationEU

Thursday, September 17, 10:30-11:00 and Friday, September 18, 10:30-11:00 (outdoor pool)

Research demonstration: Marine Robotics Demo by MARBLE and LABUST

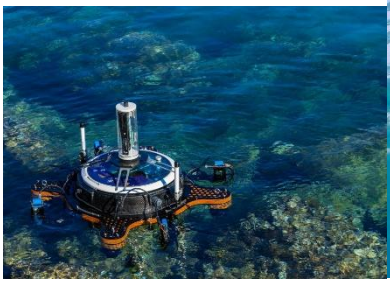
Presented by

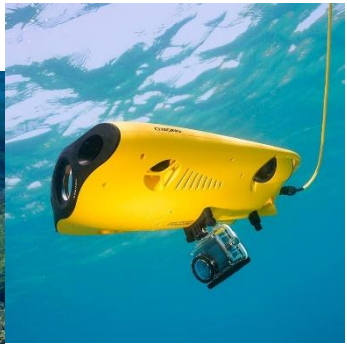
Amin Ebrahimzadeh[1], Fausto Ferreira[1,2], and **Barbara Arbanas Ferreira[1]**

[1]Centre of Excellence in Maritime Robotics and Technologies for Sustainable Blue Economy – CoE MARBLE, Croatia

[2] Laboratory for Underwater Systems and Technologies - LABUST, University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia

MARBLE, the Centre of Excellence for Maritime Robotics and Technologies for Sustainable Blue Economy, together with the Laboratory for Underwater Systems and Technologies (LABUST) at the University of Zagreb Faculty of Electrical Engineering and Computing (FER), will showcase marine robotics and underwater monitoring technologies. Participants will get an overview of MARBLE's pilot sites for developing, testing, and validating maritime technologies, spanning marine robotics, sensing, communications, and environmental monitoring. The demo will highlight how different robotic platforms and sensing technologies can be combined to support autonomous marine operations and collect data from challenging marine environments. The showcased equipment will include an autonomous surface vehicle and a small underwater vehicle, giving participants a hands-on look at technologies used for research, experimentation, and real-world testing in marine robotics.





Friday, September 18, 09:00-10:30 (BURA)

Research demonstration: DIGIPHY

Research demonstration: From DIGIPHY (“*XR Communication and Interaction Through a Dynamically Updated Digital Twin of a Smart Space”*) to INRAF (“*Research and Development of Interactive Radiance Field Technology for the Radical Transformation of Digital Twins”*)

Presented by

Lea Brzica, **Filip Matanović**, **Mirta Moslavac**, and **Filip Posavec**, University of Zagreb Faculty of Electrical Engineering and Computing

The goal of the recently concluded DIGIPHY project was to research and design technologies for immersive and intuitive eXtended Reality (XR) inter-personal communication and interaction. The project aimed to enable remote presence and interaction of people and objects within a dynamically updated digital twin (DT) or a sensor-equipped smart space. In tasks requiring interaction and/or collaboration between users in separate physical and virtual spaces, effective communication and shared control and interaction mechanisms are essential. Building on these results, the new INRAF project advances the concept further by developing technologies for photorealistic and interactive digital twins based on radiance-field methods.
In this demonstration, visitors can experience these technologies firsthand by exploring a photorealistic 3D reconstruction of a real-world environment created using Gaussian Splatting technology. Wearing a VR headset, users can virtually explore part of the outdoor park surrounding the premises of DIGIPHY project partner Ericsson Nikola Tesla in Zagreb, moving through the reconstructed environment as if they were physically present at the location.

Saturday, September 19, 08:30-10:00 (AGAVA)

ROUNDTABLE: Towards a Shared Excellence Hub Building the EXCEED Digital Health Research Hub

The EXCEED project invites you to a roundtable at SoftCOM on building a shared excellence hub for digital health research. Bringing FESB's engineering expertise together with MEFST's clinical and biomedical knowledge, the session opens a conversation on what it takes to turn two research communities into one lasting hub for collaboration. We will discuss anchoring the hub around existing infrastructure — from FESB's research laboratory to MEFST's clinical facilities — and practical ways to share expertise, from joint seminars and staff exchanges to a shared directory of competencies and equipment. We will also explore how to engage industry, SMEs, and public health stakeholders, and position the hub as a springboard for competitive Horizon Europe consortia. Come share your perspective and help shape the next steps, from governance to a roadmap for sustaining this collaboration well beyond EXCEED. All researchers, clinicians, and industry representatives working in digital health are welcome to join.

Organised by
FESB & MEFST

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EXCEED project - Building Capacities for Excellence in Digital Health Research

Project leader at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB) is prof. dr. sc. Mladen Russo. Project is implemented from 15th January 2026 to 14th January 2027. Total project budget is 99,875.52 EUR.
For more information about the project, please visit the following link:
https://exceed.fesb.unist.hr/

The project is financed under the Synergies Program (Call - Route to Synergies - DIGIT.2.2.02.) within the Digital, Innovation and Green Technology (DIGIT) Project, funded by the World Bank through the Loan Agreement (Loan No. 9558-HR) and implemented by the Ministry of Science, Education and Youth of the Republic of Croatia.

DIGIT
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GENERAL CONFERENCE INFORMATION AND HOTEL RADISSON BLU FLOORPLAN

ABOUT

The 34th International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2026) will be held on September 17-19 in Hotel Radisson Blu (Put Trstenika 19, 21000, Split) in Split, Croatia.

ELECTRONIC PROCEEDINGS

Electronic Proceedings and Final Program will be available at the conference website. Certificate of attendance will be issued on request.

LANGUAGE

The Conference language is English.

SECRETARY

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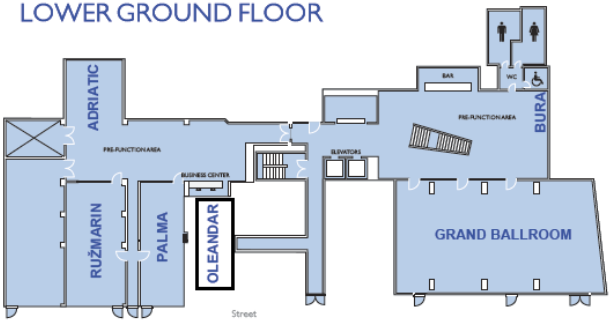
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