SoftCOM 2024 - CONTENTS

GENERAL CO-CHAIRS MESSAGE

Dear participants and colleagues, it is our pleasure to welcome you to the SoftCOM 2024 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. Current and emerging information and communication technologies are key drivers of the digital society and economy. With both evolving and new services we are enabling people to collaborate, innovate, learn, participate in ways we never thought possible. Through joint research and technology advancement we are opening ground for new discoveries and sustainable global economic growth. We can shape the future in ways that are clean, green, healthy, safe, and more resilient, and we have an opportunity for a systemic shift to a more sustainable economy that works for both people and the planet. The conference will provide opportunities to interact and network with presenters, experts, peers, and colleagues, as well as to participate in various discussions. The 32nd International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2024), technically co-sponsored by the IEEE Communications Society, will be held on September 26-28, 2024 in Bol (island of Brac). It will be our pleasure to meet you at the conference.

Welcome!

Sinisa Krajnovic

Dinko Begusic

TEHNICAL PROGRAM CHAIRS MESSAGE

The 32nd Conference on Software, Telecommunications and Computer Networks (SoftCOM 2024) will be held in Elaphusa hotel, Bol (island of Brac), Croatia, September 26 to 28, 2024.

Researchers and experts from industry, research institutes and universities from 40 countries all around the world have prepared their submissions for presentation at SoftCOM 2024. 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 eight general conference sessions, seven special sessions and a Symposium on Environmental Electromagnetic Compatibility.

The special sessions are dedicated to hot topics including: Next Generation Wired and Wireless Networks, Ad Hoc&Sensor Networks and Internet of Things, Security and Digital Forensics, Green Networking and Computing, Robotics and ICT Assisted Wellbeing, and Advanced Educational Technologies.

Besides that a Business Forum will be organized featuring industrial panels and workshops with participation of managers, experts, professionals and institutions' representatives. The 24th 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 2024 COMMITTEES

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FACULTY OF ELECTRICAL ENGINEERING,
MECHANICAL ENGINEERING AND NAVAL
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SoftCOM 2024 PROGRAM OUTLINE

Thursday, September 26, 2024 (Bluesun Hotel Elaphusa)

08:30 – 09:30 Registration

09:30 – 11:00 Technical program, Professional program, Business forum

11:00 – 11:30 Coffee break

11:30 – 13:00 Technical program, Professional program, Business forum

13:00 – 14:30 Lunch

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

16:00 – 16:30 Coffee break

Friday, September 27, 2024 (Bluesun Hotel Elaphusa)

08:30 – 09:30 Registration

09:30 – 11:00 Technical program, Professional program, Business forum

11:00 – 11:30 Coffee break

11:30 - 13:00 Keynote speech

13:00 – 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

19:30 – Social program

Saturday, September 28, 2024 (Bluesun Hotel Elaphusa)

09:15 – 10:45 Technical program, Professional program, Business forum

10:45 – 11:00 Coffee break

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

13:00 – Conference trip

KEYNOTE SPEAKERS

Sovereign Smartphone: Revisiting Smartphone Security Architecture

Srdjan Capkun

System Security Group, Department of Computer Science, ETH Zurich, Switzerland

Abstract: I will motivate the need for a new type of a smartphone architecture, the one that provides the users with sovereign control over their phones (i.e., the ability to install arbitrary software isolated from the commercial operating systems) while preserving the functionality (e.g., access to app stores) and security guarantees that the existing commercial phones provide.

I will then present +Phone, a new sovereign smartphone architecture that achieves the above goals. This design required overcoming some technical challenges, primarily the problem of secure and direct, but also backword compatible access to peripherals. Such access allows us to run e.g., a secure messenger application on a smartphone with direct access to the touchscreen, thus protecting this sensitive IO from all third-party, non-application code, including from OSs and hypervisors running on the phone. Finally, I will show a demo of +Phone implemented on top of the Purism Librem 5 phone.

Srdjan Capkun (Srđan Čapkun) is a Full Professor in the Department of Computer Science, ETH Zurich and Director of the Zurich Information Security and Privacy Center (ZISC). Originally from Split, Croatia, he received his Dipl.Ing. Degree in Electrical Engineering / Computer Science from the University of Split in 1998, and his Ph.D. degree in Communication Systems from EPFL in 2004. His research interests are in system and network security. His focus areas are wireless security (in particular secure positioning), and system security where he focuses on trusted computing and blockchain technologies. He is a co-founder of 3db Access, which focuses on secure distance measuement and proximity-based access control, and of Futurae, a company focusing on usable on-line authentication. In 2016 he received an ERC Consolidator Grant for a project on securing positioning in wireless networks. He is a fellow of the ACM.

Towards Truly Sustainable Wireless Communication Systems

Marcos Katz

University of Oulu, Finland

Abstract: The current development of 6G is focused on creating communication and computing systems with unprecedented performance levels. Moreover, the development is also considering, more than ever before, the costs associated with such systems, in terms of consumption of resources. Sustainability is one key aspect of 6G systems, and in this presentation 6G sustainability will be approached from a wide perspective, taking into account resource utilization well beyond the conventional energy cases. This will allow minimizing the overall resource consumption and therefore, developing a truly sustainable system. A holistic approach to sustainability will be discussed, considering measures to improve sustainability at different stages of a 6G system, from design to end-of-life. Finally, a concrete example of the holistic approach towards truly sustainable 6G systems will be presented and discussed.

Marcos Katz (marcos.katz@oulu.fi) is a professor at the Centre for Wireless Communications, University of Oulu, Finland, since Dec. 2009. He received the MS degree in Electrical Engineering from Universidad Nacional de Tucumán, Argentina in 1987, and the MS and Dr. Tech. degrees in Electrical Engineering from the University of Oulu, Finland, in 1995 and 2002, respectively. He worked in different R&D positions at Nokia, Finland between 1987 and 2001. In 2001–2002 he was a Research Scientist at the Centre for Wireless Communications, University of Oulu. In years 2003–2005 Dr. Katz was the Principal Engineer at Samsung Electronics, Advanced Research Lab., Telecommunications R&D Center, Suwon, Korea. From 2006 to 2009 he worked as a Chief Research Scientist at VTT, the Technical Research Centre of Finland. Prof. Katz served as the chair of Working Group 5 (on short-range communications) for the Wireless World Research Forum (WWRF) in 2008-2012. Prof. Katz has written and edited six books in different areas of mobile and wireless communications. He has written more than 200 publications and holds more than 50 patents. Prof. Katz is a member of the 6G Flagship research program, and his current research interests include optical wireless communications, sustainable wireless connectivity approaches for 6G as well as open 6G architectures.

TECHNICAL PROGRAM: GENERAL CONFERENCE

Thursday, September 26, 9:30 - 11:00 (HVAR)

S1/I: MACHINE LEARNING APPLICATIONS I

Chair: Tamara Grujić (University of Split, Croatia)

Application of GANs in the analysis and generation of marine debris images
Antonela Prnjak, Ana Kuzmanić Skelin and Tamara Grujic (University of Split, Croatia); Saša Mladenović (University of Split & Faculty of Science, Croatia)

Machine learning and dynamic time warping for online signature verification
Mohammad Saleem (Budapest University of Technology and Economics, Hungary)

Automating Diploma Title Generation: Applying Machine Learning Techniques
Alba Merdani (Polytechnic University of Tirana, Albania); Nelda Kote (Polytechnic University of Tirana & Faculty of Information Technology, Albania); Kleda Ternova (Polytechnic University of Tirana & Star7, Albania); Enida Sheme (Polytechnic University of Tirana & Faculty of Information Technology, Albania)

Analyzing Reading Patterns with Webcams: An Eye-Tracking Study of the Albanian Language
Alba Haveriku, Iris Haxhija and Elinda Kajo Mece (Polytechnic University of Tirana, Albania)

Towards Energy-efficient Data Collection in Internet of Ships
Jelena Culic Gambiroza and Mirko Čorić (University of Split, Croatia); Mario Cagalj (University of Split, FESB, Croatia)

Training Dataset Pruning Algorithm with Evaluation on Medical Datasets
Božo Durdov and Marina Prvan (University of Split, Croatia); Duje Čoko (University of Split, FESB, Croatia); Josip Music (University of Split, Croatia)

Thursday, September 26, 11:30 - 13:00 (HVAR)

S1/II: MACHINE LEARNING APPLICATIONS II

Chair: Jelena Culic Gambiroza (University of Split, Croatia)

Gymir5G: A Simulation Platform to Study Data Transmission over WebRTC in 5G Networks with Deep Learning Assistance
Nikita Smirnov (Kiel University, Germany); Sven Tomforde (University of Kiel, Germany)

Traffic Matrix Estimation Using Invertible Neural Networks
Grigorios Kakkavas (National Technical University of Athens (NTUA) & Institute of Communication and Computer Systems (ICCS), Greece); Petros Maratos (National Technical University of Athens, Greece); Vasileios Karyotis (Ionian University & NETMODE Lab, NTUA, Greece); Symeon

Papavassiliou (National Technical University of Athens, Greece)

Automated Data Correlation for IoT Anomaly Detection with B5G Networks
Vikramajeet Khatri and Mehrnoosh Monshizadeh (Nokia Bell Labs, Finland); Sina Hojjatinia (Aalto University, France & Nokia, Finland); Siwar Kriaa (Nokia Bell Labs, France); Petri Mähönen (Aalto University, Finland)

Comparative Machine Learning Analysis of PM2.5 and PM10 Forecasting in Albania
Alba Merdani (Polytechnic University of Tirana, Albania)

Employing Feature Engineering for River Stage Forecasting to Improve Hybrid Model Performance
Anna Maria Mihel (University of Rijeka, Croatia); Špela Pečnik and Grega Vrbančič (University of Maribor, Slovenia); Jonatan Lerga (University of Rijeka, Croatia & University of Rijeka, Center for Artificial Intelligence and Cybersecurity, Croatia); Nino Krvavica (University of Rijeka, Croatia)

Comparison of signal pre-processing and Machine Learning modelling for water-leak detection using vibration and pressure data
Luisiana Sabbatini and Marco Esposito (Università Politecnica Delle Marche, Italy); Alberto Belli and Paola Pierleoni (Università Politecnica delle Marche, Italy)

Thursday, September 26, 09:30 - 11:00 (KORČULA)

S2: SIGNAL AND DATA PROCESSING

Chair: Joško Radić (University of Split, Croatia)

Advancing Quantum Communications: Q-OFDM with Quantum Fourier Transforms for Enhanced Signal Integrity
Abdulbasit M. A. Sabaawi and Mohammed Almasaoodi (Budapest University of Technology and Economics (BME), Hungary); Sándor Imre (Technical University of Budapest, Hungary)

Adaptive Compressive Sensing Image Recovery Using Block-Variance-Based Sampling
Đorđe Stanković (University of Montenegro, Montenegro); Andjela Draganić (University of Montenegro, Faculty of Electrical Engineering, Montenegro); Cornel Ioana (Grenoble Institute of Technology, France); Irena Orović (University of Montenegro, Montenegro)

Custom-Designed Signal Processing Application for RFSoC FPGA Platform
Gergo Kovacs (Technical University of Cluj-Napoca & INCDTIM, Cluj-Napoca, Romania); Raluca Nelega (Technical University of Cluj-Napoca, Romania &

INCDTIM, Romania); Alexandru Oprea (Technical University of Cluj-Napoca & INCDTIM Cluj-Napoca, Romania); Radu Voina (Technical University of Cluj-Napoca, Romania & Keytek Innovation, Romania); Romulus Valeriu Flaviu Turcu (Babes-Bolyai University, Romania); Emanuel Puschita (Technical University of Cluj-Napoca, Romania & National Institute for Research and Development of Isotopic and Molecular Technologies (INCDTIM), Romania)

Classification of Power-Grid Signal Transients based on Matched Filters and Graph Signal Processing
Isidora Stankovic (University of Montenegro, Montenegro); Angela Digulescu (Military Technical Academy, Romania); Cornel Ioana (Institute National Polytechnique de Grenoble, France); Milos Brajovic (University of Montenegro, Montenegro)

Efficient Data Processing Pipelines for Mobility Data Using MongoDB
Camelia Florina Andor (Babes-Bolyai University, Romania); Vlad Alexe and Norbert Petrovici (Babes-Bolyai University of Cluj-Napoca, Romania)

SyncNet: Harmonizing Nodes for Efficient Learning
Abhinav Roy (IIIT NR, India); Bhavesh S Gyanchandani (IIITNR, India); Jyoti Sahu (IIIT NR, India); Mallikharjuna Rao K (IIIT Naya Raipur, India)

Thursday, September 26, 11:30 - 13:00 (KORČULA)
S3: 5G&B5G TECHNOLOGIES

Chair: Miljenko Mikuc (University of Zagreb, Croatia)

Cell Stay Time Characteristics Exploration in Beyond 5G Small Cells
Miroslav Voznak (VSB - Technical University of Ostrava, Czech Republic); Khoa Nguyen Dang Dinh (Technical University of Ostrava, Czech Republic); Erik Chromy (Pan-European University, Slovakia)

Out of Distribution Generalization: KPI vs Spectrogram Based Jamming Classification in 5G
Ronald Chitauro (IHP Microelectronics, Germany); Marcin Brzozowski (IHP, Germany); Onur Yener (IHP-Leibniz-Institut Fur Innovative Mikroelektronik, Germany); Peter Langendoerfer (IHP Microelectronics, Germany)

Integrating Open-Source VoNR in 5G SA Private Networks: An Experimental Evaluation
Elena-Ramona Modroiu (Technische Universität Berlin, Germany); Joyce Mwangama (University of Cape Town, South Africa); Marius Corici (Fraunhofer FOKUS, Germany); Thomas Magedanz (Fraunhofer Institute FOKUS / TU Berlin, Germany)

End-To-End Network Flow Path Calculation in Beyond 5G Multi-Tenant Infrastructures
Angel M Gama Garcia (University of the West of Scotland & Universidad de Alicante, United Kingdom (Great Britain)); Pablo Benlloch-Caballero (University of West Scotland, United Kingdom

(Great Britain)); Qi Wang (University of the West of Scotland, United Kingdom (Great Britain)); Higinio Mora (University of Alicante, Spain); Jose Maria Alcaraz Calero (University of the West of Scotland & School of Engineering and Computing, United Kingdom (Great Britain))

Survey on the Impact of AI, Robotics and 6G Networks on the Remote Surgery
Noor Abdalkarem Mohammedali (Al-Mustaqbal University, Iraq); Triantafyllos Kanakis and Michael Opoku Agyeman (University of Northampton, United Kingdom (Great Britain))

Fusing Reconfigurable Intelligent Surfaces with 6G Non-Terrestrial Networks
Muhammad Shoaib Ayub (Universidad de Santiago, Chile); Pablo Adasme (University of Santiago de Chile, Chile); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil); Renata Lopes Rosa (Universidade Federal de Lavras, Brazil); Muhammad Iqbal and JenYi Pan (National Chung Cheng University, Taiwan); Thokozani Calvin Shongwe (University of Johannesburg, South Africa)

Friday, September 27, 09:30 - 11:00 (HVAR)
S4: WIRELESS COMMUNICATIONS

Chair: Joško Radić (University of Split, Croatia)

Enhancing Handover Performance in LEO Satellite Networks with Multi-Connectivity and Conditional Handover Approach
Mohammed Al-Ansi and Jorge Querol (University of Luxembourg, Luxembourg); Madyan Alsenwi (SnT, Luxembourg); Eva Lagunas and Symeon Chatzinotas (University of Luxembourg, Luxembourg)

RAG-Aided Approach to Network Experimentation: Case of Wireless Environment Channel Capacity Analysis under Fading and Co-Channel Interference Conditions with Beaulieu-Xie Distribution
Dragana Krstić (University of Niš, Serbia); Suad Suljovic (Academy of Technical Professional Studies Belgrade, Serbia); Nenad Petrovic (University of Nis, Faculty of Electronic Engineering, Serbia); Miodrag Brklje (Tehpro doo, Belgrade, Serbia); Zoran Popovic (Technical College of Vocational Studies, Zvecan, Serbia)

Robust DNN-Enabled Cooperative Spectrum Sensing
Omar Serghini and Salvatore Serrano (University of Messina, Italy); Hayat SEMLALI (Université Cadi Ayyad, Morocco); Asmaa Maali (Laboratory of Electrical Systems and Telecommunications, Cadi Ayyad University, Morocco)

UWB Channel Impulse Response Alignment Techniques for Accurate Indoor Radio Sensing
Teodora Kocevska, Martin Murko and Aleš Simončič (Jožef Stefan Institute, Slovenia); Grega Morano (Jozef Stefan Institute, Slovenia); Tomaž Javornik (Jožef Stefan Institute, Slovenia & Jožef Stefan

International Postgraduate School, Slovenia); Bostjan Batagelj (University of Ljubljana, Slovenia); Andrej Hrovat (Jožef Stefan Institute, Slovenia)

ConSUMO: simulation based tool to evaluate mobile traffic impact on cell towers load
Gabriel Panini (University of Modena and Reggio Emilia, Italy); Francesco Faenza (PostDoc Researcher, Italy & University of Modena and Reggio Emilia, Italy); Claudia Canali and Riccardo Lancellotti (University of Modena and Reggio Emilia, Italy)

Guard-Trace Utilization for Performance Enhancement of 5G MIMO Antenna
Trasma Yunita and Zulfi Zulfi (Telkom University, Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)

S5: OPTICAL COMMUNICATIONS AND NETWORKING

Chair: Joao Pedro (Infinera & Instituto de Telecomunicações, Portugal)

AI and ML Applications Traffic: Designing Challenges for Performance Optimization of Optical Data Center Networks
Peristera A. Baziana (University of Thessaly, Greece); Georgios Drainakis (Institute of Communication and Computer Systems, Greece); David Georgantas (University of Thessaly, Greece); Adonis Bogris (University of West Attica, Greece)

Launch Power Control for Digital Subcarrier Equalization in Filterless Optical Networks
Mohammad Hosseini (Infinera, Germany); Joao Pedro (Infinera & Instituto de Telecomunicações, Portugal); Antonio Napoli (Infinera, Germany)

On the Performance of the UAV-based Multi-Source FSO Communications
Wafaa Mohammed Ridha Shakir (Al-Furat Al-Awsat Technical University, Iraq); Zainab Qasim Abdulazeez (Al-Furat Al-Awsat Technical University & Engineering Technical College-Najaf, Iraq)

Anycast Metrics and Performance Tuning
Jan Marius Evang (Oslo Metropolitan University & Simula Metropolitan Center for Digital Engineering, Norway); Tarik Cicic (Simula Metropolitan Centre for Digital Engineering, Norway); Alojz Gomola (Simula Metropolitan Center for Digital Engineering, Norway)

S6: SOFTWARE DEVELOPMENT

Chair: Linda Vicković (University of Split, Croatia)

Insights into the Applications of Bayesian Networks in Software Engineering
Thiago Rique (IFPB, Brazil); Emanuel Dantas (VIRTUS, Brazil); Mirko Perkusich (VIRTUS-UFCG, Brazil); Kyller Costa Gorgônio (Federal University of Campina Grande, Brazil); Hyggo Almeida (UFCG, Brazil); Angelo Perkusich (Federal University of Campina Grande, Brazil)

Framework for Integrating Threat Modeling into a DevOps Pipeline for Enhanced Software Development
Lyuben Nikolov and Adelina P. Aleksieva-Petrova (Technical University of Sofia, Bulgaria)

A Cloud-Based Software Architecture for a Course Recommender System
Anna Draganova (Sofia University, Bulgaria); Adelina P. Aleksieva-Petrova (Technical University of Sofia, Bulgaria); Milen Petrov (Sofia University, Bulgaria)

S7: HEALTHCARE APPLICATIONS

Chair: Priyanka Verma (University of Limerick, Ireland)

Growth Plate Area Segmentation on Knee MRIs
Ana Pinjuh (University of Mostar, Bosnia and Herzegovina); Linda Vickovic (University of Split, Croatia); Sven Gotovac (University of Split & FESB, Croatia); Dunja Božić Štulić (University of Split, Croatia)

Transfer Learning in Building Neural Network Model Case Study
Marija Zorić (Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, Croatia); Maja Stula (University of Split, Croatia); Ivan Markić (University of Mostar, Faculty of Mechanical Engineering, Computing and Electrical Engineering); Maja Braović (University of Split - FESB, Croatia)

Revolutionizing Human Activity Recognition in Healthcare: Harnessing Red Deer for Feature Selection and Focal Loss-Based MLP for Classification
Nitesh Bharot and John G. Breslin (University of Galway, Ireland); Priyanka Verma (University of Limerick, Ireland)

A Multi-Agent Architecture for Privacy-Preserving Natural Language Interaction with FHIR-Based Electronic Health Records
Carmen De Maio (Università degli Studi di Salerno, Italy); Giuseppe Fenza, Domenico Furno, Teodoro Grauso and Vincenzo Loia (University of Salerno, Italy)

Advancing Healthcare 5.0 through Federated Learning: Opportunity for Security Enforcement using Blockchain
Ugochukwu Okwudili Matthew, Sr (Federal University of Lavras, Brazil & Hussaini Adamu Federal Polytechnic, Nigeria); Renata Lopes Rosa (Federal University of Lavras, Brazil); Demostenes Zegarra Rodriguez (UFLA, Brazil); Pablo Adasme (University of Santiago de Chile, Chile); Muhammad Shoaib Ayub (Universidad de Santiago, Chile)

S8: VEHICULAR AND ASSISTIVE ML APPLICATIONS

Chair: Duje Čoko (University of Split, Croatia)

Creating a surround view algorithm with implementation on a real embedded ADAS platform
Ivan Marinić (TTTech Auto, Croatia); Mario Vranjes (University of Osijek, Croatia); Ratko Grbić (University of Osijek, Faculty of Electrical Enginneering, Croatia); Marijan Herceg (FERIT, Croatia)

Algorithm for activating the alarm system when leaving the vehicle
Marija Ovžetski (TTTech Auto, Croatia); Mario Vranjes (University of Osijek, Croatia); Ratko Grbić (University of Osijek, Faculty of Electrical Enginneering, Croatia); Denis Vranješ (Computer Science and Information Technology Osije, Croatia)

Driver Information System based on Computer Vision
Mihovil Kovačević (TTTech Auto, Croatia); Mario Vranjes (University of Osijek, Croatia); Ratko Grbić (University of Osijek, Faculty of Electrical Enginneering, Croatia); Marijan Herceg (FERIT, Croatia)

Predictive Modeling of Autonomous Vehicle Behavior with Imbalanced & Mixed Data
Celine Serbouh (CNAM, France & UTAC, France); Iness Ahriz (CNAM, France); Ndeye Niang Keita (Cnam, France); Alain Piperno (UTAC, France)

Towards an Efficient Navigation Solution for Visually Impaired Individuals: Concepts and Constraints
Iness Ahriz (CNAM, France); Wafa Njima (Institut Superieur d Electronique de Paris, France); Lounis Zerioul (Conservatoire Nation Des Arts et Metiers, France); Samuel Garcia (CNAM, France); Maria Camila Molina (Conservatoire National des Arts et Métiers & N-Vibe, France); Charlie Galle (N-Vibe, France); Dany Merhej (CNAM, Lebanon); Lina Mroueh (Institut Supérieur d'Electronique de Paris, France); Michel Terré (CNAM, France)

PAS1: POSTERS / ABSTRACTS SESSION

Chair: Josip Lorincz (University of Split, Croatia)

Determination of the Impact of Video Encoding Parameters on QoE Using Passive Viewing Tests
Dominik Arih, Ilija Barišić and Mirko Suznjevic (University of Zagreb, Croatia)

Introducing Secure Element Token with USB Wi-Fi Bluetooth Triple Communication Interfaces
Pascal Urien (Telecom Paris, France)

SYMPOSIUM AND SPECIAL SESSIONS

SS1/I: SPECIAL SESSION ON NEXT GENERATION WIRED AND WIRELESS NETWORKS I

SS1/I: Special Session on Next Generation Wired and Wireless Networks I

Chair: Janusz Henryk Klink (Wroclaw University of Science and Technology, Poland)

GWO-based user clustering and power allocation for downlink MIMO-NOMA systems
Samar Chebbi (Université de Limoges, France); Oussama Habachi (University of Limoges, France); Essaid Sabir (TELUQ University & University of Quebec, Canada); Jean Pierre Cances and Vahid Meghdadi (University of Limoges, France)

Federated SFC Placement in Sliced Collaborative Multi-Administrative Multi-Domain Networks
Dariusz Nogalski (Military Communication Institute - National Research Institute, Poland); Dallal Belabed and Alexandre Triollet (Airbus Defence and Space, France); Konstanty Junosza-Szaniawski (Warsaw University of Technology, Poland); Slim Abdellatif (CNRS/LAAS & Université de Toulouse, INSA, LAAS, France); Pascal Berthou (CNRS/LAAS - Université de Toulouse, France); Stanislas Pedebearn (LAAS CNRS, France); Adam Dudko (Military Communication Institute - National Research Institute, Poland)

The Use of Machine Learning in Modeling Video Quality Assessment
Janusz Henryk Klink and Michał Łuczyński (Wroclaw University of Science and Technology, Poland); Tadeus Uhl (Flensburg University of Applied Sciences, Germany)

Real-Time Video Streaming in MPT-GRE Multipath Networks
Naseer Al-Imareen (Szechenyi Istvan University, Hungary); Gábor Lencse (Széchenyi István University, Hungary)

Context-aware Communication in C-ITS for Road Safety Applications: Survey and Open Research Directions
Ameni Chtourou (Universite Paris Cite, France); Mohamed Hadded (Abu Dhabi University, United Arab Emirates); Hakim Ghazzai (King Abdullah University of Science and Technology, Saudi Arabia); Mourad Elhadef (Abu Dhabi University, United Arab Emirates)

SS1/II: SPECIAL SESSION ON NEXT GENERATION WIRED AND WIRELESS NETWORKS II

Saturday, September 28, 11:00 - 12:30 (KORČULA)

SS1/II: Special Session on Next Generation Wired and Wireless Networks II

Chair: Janusz Henryk Klink (Wroclaw University of Science and Technology, Poland)

Augmented Reality Interface Quality of Experience Assessment Using Video Game Simulation
Katarina Mišura and Mirko Suznjevic (University of Zagreb, Croatia)

Real-time Millimeter Wave Wireless Mesh Network Emulation
Kari Seppänen (VTT Technical Research Centre of Finland, Finland)

Advancing Neural Speech Codecs: Integrating Psychoacoustic Models for Enhanced Speech Quality
Adilson Torres (UFLA, Brazil); Renata Lopes Rosa (Universidade Federal de Lavras, Brazil); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil); Muhammad Saadi (University of Central Punjab Lahore, Pakistan)

SS2: SPECIAL SESSION ON AD HOC&SENSOR NETWORKS AND INTERNET OF THINGS

Friday, September 27, 14:30 - 16:00 (HVAR)

SS2: Special Session on Ad Hoc&Sensor Networks and Internet of Things

Chair: Jelena Culic Gambiroza (University of Split, Croatia)

ML Classification of BLE Packets Using Restrain Receiver QoS Metrics
Morgane Joly (Université Gustave Eiffel & NXP, France); Eric Renault (LIGM, Université Gustave Eiffel, CNRS, ESIEE Paris, France); Fabian Riviere (NXP Semiconductors, France)

The Potential of Computational Intelligence to Extend the Lifespan of Internet of Things Power-Limited Sensor Networks
Khalid A. Darabkh and Muna R. Al-Akhras (The University of Jordan, Jordan)

Adaptive Resource Management in Software-Defined Networks for IoT Ecosystems
Ugochukwu Okwudili Matthew, Sr (Federal University of Lavras, Brazil & Hussaini Adamu Federal Polytechnic, Nigeria); Muhammad Shoaib Ayub (Universidad de Santiago, Chile); Pablo Adasme (University of Santiago de Chile, Chile); Renata Lopes Rosa (Universidade Federal de Lavras, Brazil); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil); Muhammad Saadi (University of Central Punjab Lahore, Pakistan); Frederico G Guimaraes (Universidade Federal de Minas Gerais, Brazil)

Automated Validation of Spatial Data
João Victor Teofilo Salgado (UFLA, Brazil); Demostenes Zegarra Rodriguez (Federal University of Lavras & Nokia Technology Institute, Brazil); Vinicius Victor Dias (UFLA, Brazil); Renata Lopes Rosa (Universidade Federal de Lavras, Brazil)

SS3/I: SPECIAL SESSION ON SECURITY AND DIGITAL FORENSICS I

Thursday, September 26, 9:30 - 11:00 (VIS)

SS3/I: Special Session on Security and Digital Forensics I

Chair: Toni Perković (University of Split, Croatia)

An Efficient Decentralized Fine-grained Access control for IoT Ecosystems over NDN
Ferhat Mecerhed (Université Polytechnique Hauts-de-France, France & University of Lübeck, Germany); Imine Youcef (Univ Polytechnique Hauts-De-France LAMIH CNRS, France); Antoine Gallais (Univ Polytechnique Hauts-De-France LAMIH CNRS & INSA Hauts-De-France, France); Stefan Fischer and Mohamed Ahmed Mohamed Hail (University of Lübeck, Germany)

Deploying Testbed Docker-based application for Encryption as a Service in Kubernetes
Amir Javadpour (University of Oulu, Finland); Forough Ja'fari (Sharif University of Technology, Iran); Tarik Taleb (Ruhr University Bochum, Germany); Chafika Benzaid (University of Oulu, Finland & University of Sciences and Technology Houari Boumediane (USTHB), Algeria); Luis Rosa (OneSource, Portugal); Pedro Tomás (OneSource & University of Coimbra, Portugal); Luis Cordeiro (OneSource, Portugal)

Heuristic Malware Detection Method Based on Structured CTI Data: A Research Study and Proposal
Pavel Novak (Masaryk University, Czech Republic); Vaclav Oujezsky (Masaryk University, Czech Republic & Brno University of Technology, Czech Republic)

Network Traffic Intrusion Detection
Martina Antonic and Frane Žada (University of Zagreb, Croatia)

SS3/II: SPECIAL SESSION ON SECURITY AND DIGITAL FORENSICS II

Thursday, September 26, 11:30 - 13:00 (VIS)

SS3/II: Special Session on Security and Digital Forensics II

Chair: Toni Perković (University of Split, Croatia)

Probing with a Generic MAC Address: An Alternative to MAC Address Randomisation
Johanna Ansohn McDougall (University of Hamburg, Germany); Alessandro Brighente (University of Padova, Italy); Hannes Federrath, Niklas Zapatka, Anne Kunstmann and Hanna Schambach (University of Hamburg, Germany)

TIMETABLE A: TECHNICAL PROGRAM, SYMPOSIA

Thursday, September 26 (Bluesun Hotel Elaphusa)

Time/Hall	HVAR	KORČULA	VIS
08:30-09:30	REGISTRATION		
09:30-11:00	S1/I: Machine Learning Applications I	S2: Signal and Data Processing	SS3/I: Special Session on Security and Digital Forensics I
11:00-11:30	Coffee Break		
11:30-13:00	S1/II: Machine Learning Applications II	S3: 5G & B5G Technologies	SS3/II: Special Session on Security and Digital Forensics II
13:00-14:30	Lunch		
14:30-16:00	S8: Vehicular and Assistive ML Applications	S6: Software Development	SS3/III: Special Session on Security and Digital Forensics III
16:00-16:30	Coffee Break		

Friday, September 27 (Bluesun Hotel Elaphusa)

Time/Hall	HVAR	KORČULA	VIS
08:30-09:30	REGISTRATION		
09:30-11:00	S4: Wireless Communications	SS4: Special Session on Green Networking and Computing **Keynote Speech: Marcos Katz**	S5: Optical Communications and Networking
11:00-11:30	Coffee Break		
11:30-12:30	**Keynote Speech:** **Srdjan Capkun:** *Sovereign Smartphone: Revisiting Smartphone Security Architecture* (**BRAČ**)		
12:30-14:30	Conference Luncheon		
14:30-16:00	SS2: Special Session on Ad Hoc&Sensor Networks and Internet of Things	SS4: Special Session on Green Networking and Computing	SS5/I: Special Session on Robotics and ICT Assisted Wellbeing I
16:00-16:30	Coffee Break		
16:30-18:00	S7: Healthcare Applications	SS4: GREENEDGE PhD student contest and award ceremony	SS6: Special Session on Advanced Educational Technologies
19:30-23:00	Social program		

Saturday, September 28 (Bluesun Hotel Elaphusa)

Time/Hall	HVAR	KORČULA	VIS
09:15-10:45	SYM1/I: Symposium on Environmental Electromagnetic Compatibility (EEMC) I	SS1/I: Special Session on Next Generation Wired and Wireless Networks I	SS5/II: Special Session on Robotics and ICT Assisted Wellbeing II
10:45-11:00	Coffee Break		
11:00-12:30	SYM1/II: Symposium on Environmental Electromagnetic Compatibility (EEMC) II (**HVAR**) Tutorial (D. Poljak)	SS1/II: Special Session on Next Generation Wired and Wireless Networks II (**KORČULA**)	
13:00-17:00	Conference trip		

TIMETABLE B: WORKSHOPS, BUSINESS FORUM

Friday, September 27 (Bluesun Hotel Elaphusa)

Time/Hall	ŠOLTA	BRAČ 2
08:30-09:30	REGISTRATION	
09:30-11:00	WICT: Workshop on ICT	Workshop on Contemporary technologies for natural and man-made disaster management
11:00-11:30	Coffee Break	
11:30-13:00	**Keynote Speech:** **Srdjan Capkun:** *Sovereign Smartphone: Revisiting Smartphone Security Architecture* **(BRAČ)**	
13:00-14:30	Conference Luncheon	
14:30-16:00	PANEL DISCUSSION: The Importance of Digital Skills in Developing the Local Tech Community **(BRAČ 2)**	
16:00-16:30	Coffee Break	
16:30-18:00	SYM2: Symposium on Information Security and Intellectual Property (ISIP)	ERICSSON SUMMER CAMP WORKSHOP
19:30-23:00	Social program	

TIMETABLE C: POSTER SESSIONS

Thursday, September 26 (Bluesun Hotel Elaphusa)

Time/Hall	ADRIATIC
08:30-09:30	REGISTRATION
09:30-18:00	PDS2: GREENEDGE project PhD students Poster session GreenEdge project PhD student poster presentation: 11:30 -13:00 and 14:30-16:00
Friday, September 27 (Bluesun Hotel Elaphusa)	
14:30-16:00	PAS1: Posters/Abstracts Session
14:30-16:00	PDS1: Posters/Demos Session
09:30-18:00	PDS2: GREENEDGE project PhD students Poster session

Social program	
Friday, September 27	**Evening in Bol (19:30 - 23:00)**
Conference dinner in Bol (19:30 – 23:00)	
Saturday, September 28	**Conference trip (13:00 – 17:00)**
Vidova Gora (13:00-15:00)	
Lunch in Supetar (15:00-17:00)	
* Note: approximate time is indicated. Actual info on shuttle/bus transfer will be available at the registration desk.	

Anonymization-based method for privacy-preservation of users in Internet services
Dardan Maraj (University of Zagreb, Kosovo); Marin Vukovic (University of Zagreb Faculty of Electrical Engineering and Computing, Croatia)

Enhanced 5G Device-to-Device (D2D) Security in Spectrum Sharing System
Ayat M. Alrjoob (German-Jordanian University, Jordan); Ahmad Ababneh and Mamoun F. Al-Mistarihi (Jordan University of Science and Technology, Jordan); Khalid A. Darabkh (The University of Jordan, Jordan)

Securing Primary Users in IoT 5G Cognitive Radio Networks
Ayat M. Alrjoob (German-Jordanian University, Jordan); Ahmad Ababneh and Mamoun F. Al-Mistarihi (Jordan University of Science and Technology, Jordan); Khalid A. Darabkh (The University of Jordan, Jordan)

SS3/III: SPECIAL SESSION ON SECURITY AND DIGITAL FORENSICS III

Thursday, September 26, 14:30 - 16:00 (VIS)
SS3/III: Special Session on Security and Digital Forensics III

Chair: Miljenko Mikuc (University of Zagreb, Croatia)

Recent Trends and Open Issues in Cyber Security for Online Platforms
Hiba Akli (University of Angers, France & Esaip Engineering School, France); Karim Zkik (CERADE, France); Stephane Igor (University of Angers, France); Sofiane Hamrioui (ESAIP School, France); Pascal Lorenz (University of Haute Alsace, France)

A Digital Watermark Architecture for Image Authentication Based on Hermite Transform
Andjela Draganić (University of Montenegro, Faculty of Electrical Engineering, Montenegro); Đorđe Stanković and Neđeljko Lekić (University of Montenegro, Montenegro); Cornel Ioana (Grenoble Institute of Technology, France); Irena Orović (University of Montenegro, Montenegro)

A Methodology for Risk Management of Generative AI based Systems
Raimir Holanda and Daniel Colares (University of Fortaleza, Brazil)

GNSS Spoofing Attack in Real-time Static and Dynamic Scenarios
Marta Balić (Ericsson Nikola Tesla, Croatia); Katarina Radoš and Zoran Blažević (University of Split, Croatia)

AI/ML-Enhanced Security Monitoring for 5G-Enabled Big Data Sensor Networks
Stefania Efigênia Iza da Silva (UFLA, Brazil); Renata Lopes Rosa (Federal University of Lavras, Brazil); Demostenes Zegarra Rodriguez (UFLA, Brazil); Pablo Adasme (University of Santiago de Chile, Chile); Muhammad Saadi (University of Central Punjab Lahore, Pakistan)

SS4: SPECIAL SESSION ON GREEN NETWORKING AND COMPUTING

Friday, September 27, 14:30 – 16:00 (KORČULA)
SS4: Special Session on Green Networking and Computing

Chair: Josip Lorincz (University of Split, Croatia)

Sensor Multiplexing in Linux Containers
Peter Barth (University of Applied Sciences Mannheim & University of Applied Sciences, Germany); Raphael Barth (Titum GmbH, Germany)

Comparison of Multi-Criteria Decision-Making Algorithms for Spectral and Energy Efficiency Trade-off in Massive MIMO Systems
Eni Haxhiraj and Elson Agastra (Polytechnic University of Tirana, Albania); Desar Shahu (Polytechnic University of Tirana & Faculty of Information Technology, Albania)

Smart Street Lighting for Enhancing Energy Efficiency in Urban Environments
Visnja Krizanovic (University of Osijek, Croatia); Ana Pejkovic (Josipa Kozarca 51, Croatia); Patrik Pracny (University of Osijek, Croatia)

Power Savings of Device-to-Device (D2D) Communication System Using Several Bands 5G Underlaying Cellular Networks
Razan A. Shatnawi, Mahmoud A. Khodeir and Mamoun F. Al-Mistarihi (Jordan University of Science and Technology, Jordan); Khalid A. Darabkh (The University of Jordan, Jordan)

Data-Driven Prediction of Power Usage Effectiveness: A Machine Learning Case Study
Besjana Muraku and Alba Haveriku (Polytechnic University of Tirana, Albania); Aneta Deliu (UPT, Albania); Elinda Kajo Mece (Polytechnic University of Tirana, Albania)

SS4: GREENEDGE PhD STUDENT CONTEST AND AWARD CEREMONY

Friday, September 27, 16:30 – 18:00 (KORČULA)
SS4: Greenedge PhD Student Contest and Award Ceremony

Chair: Michele Rossi (University of Padova, Italy)

Energy Aware Image Classification
Andrea Scanu, Luca Vergolani (University of Padova) - Greenedge project challenge

Energy Efficient IoT Networks
Mohammad Khalili (University of OULU) - Greenedge project challenge

Greenedge challenge project awards (Greenedge project members)

Friday, September 27, 14:30 - 16:00 (VIS)
SS5/I: Special Session on Robotics and ICT Assisted Wellbeing I

Chair: Vladan Papić (University of Split, Croatia)

Furhat PsychScreen Framework: Streamlining Robot-Assisted Psychological Screening Implementation
Anna Lekova and Paulina Tsvetkova (Bulgarian Academy of Sciences, Bulgaria); Mayiana Mitevska and Teodora Medneva (University of Plovdiv, Bulgaria)

Time to Hire a Robot Psychologist? Evaluating a Corporate RAG Application
Gian Paolo Jesi and Andrea Odorizzi (Lepida ScpA, Italy); Gianluca Mazzini (LepidaSpA & UniFe, Italy)

Validating the OpenBCI Nodes within the Node-RED Library through an EEG-based BCI Application for IoT
Adelina Kremenska and Anna Lekova (Bulgarian Academy of Sciences, Bulgaria); Georgi Dimitrov (University of Library Studies and Information Technologies & ULSIT, Bulgaria)

Individual Plant Detection on Post-Harvest Forest Floor Using Aerial Imagery
Aashish Raviraj, Maximilian Johenneken, Ahmad Drak, Alexander Asteroth and Sebastian Houben (Bonn-Rhein-Sieg University of Applied Sciences, Germany)

Unraveling the Potential of AI Towards Digital and Green Transformation in Kiwifruit Farming
Theofanis Kalampokas (Democritus University of Thrace, Greece); Eleni Vrochidou (International Helenic University, Greece); Maria Tzampazaki and George A Papakostas (Democritus University of Thrace, Greece)

Comparative Analysis of Wildfire Segmentation Using Satellite Images of Different Spectral Bands Downloaded from the Copernicus Sentinel and Nimbo Earth Platforms
Ana Šarić Gudelj (FESB & University of Split, Croatia); Vladan Papic (University of Split, Croatia)

SS5/II: SPECIAL SESSION ON ROBOTICS AND ICT ASSISTED WELLBEING II

Saturday, September 28, 09:15 – 10:45 (VIS)
SS5/II: Special Session on Robotics and ICT Assisted Wellbeing II

Chair: Vladan Papić (University of Split, Croatia)

Application development in AutoCAD environment for modeling 3D printed souvenirs targeting STEAM education
Ivan Chavdarov (Bulgarian Academy of Sciences, Bulgaria & St Kliment Ohridski, Bulgaria); Borislava Kostova and Galya Tsaneva (Bulgarian Academy of Science, Bulgaria)

Social Robots in Education: To Select or Not to Select a Robot for a Teaching Subject at an Educational Level?
Maria Tzampazaki (Democritus University of Thrace, Greece); Eleni Vrochidou (International Helenic University, Greece); George A Papakostas (Democritus University of Thrace, Greece)

Integrating creativity in a STEAM physics lesson by using 3D Printing and a humanoid robot Nao
Borislava Kostova (Bulgarian Academy of Science, Bulgaria); Ivan Chavdarov (Bulgarian Academy of Sciences, Bulgaria & St Kliment Ohridski, Bulgaria); Galya Tsaneva (Bulgarian Academy of Science, Bulgaria); Snezhana Kostova (Bulgarian Academy of Sciences Sofia, Bulgaria); Aleksandar Krastev (Institut of Robitics, Bulgarian Academy of Sciences, Bulgaria)

3D Printed DELTA Robot for Educational Purposes
Ivan Chavdarov (Bulgarian Academy of Sciences, Bulgaria & St Kliment Ohridski, Bulgaria); Kaloyan M Yovchev (Sofia University, Bulgaria); Bozhidar Naydenov (Dassault Systemes & Institut of Robitics, Bulgarian Academy of Sciences, Bulgaria); Vladislav Vladislavov Hrosinkov (Sofia University, Bulgaria)

SS6: SPECIAL SESSION ON ADVANCED EDUCATIONAL TECHNOLOGIES

Friday, September 27, 16:30 - 18:00 (VIS)
SS6: Special Session on Advanced Educational Technologies

Chair: Ani Grubišić (University of Split, Croatia)

Predictive Modeling of Student Performance in Moodle LMS using Learning Analytics
Mia Mužinić, Antonela Sikavica, Petra Zelić, Ani Grubisic and Ines Šarić-Grgić (University of Split, Croatia)

Assessing Interaction Mechanics in Extended Reality for Control Engineering Applications
Armin Remenyi and Saleh Ragheb Saleh Alsaleh (Tallinn University of Technology, Estonia); Aleksei Tepljakov (Tallinn University of Technology & R8 Technologies OÜ, Estonia)

Analysis of the Gamification Aspects of Digital Educational Tools Using Gamification Classification
Ana Vrcelj Bozic (University of Rijeka & Civil Engineering Technical School in Rijeka, Croatia); Natasa Hoic-Bozic, Martina Holenko Dlab and Kristian Stančin (University of Rijeka, Croatia); Tomislav Jagušt (University of Zagreb, Croatia)

Automatically Generated Practice in the Classroom: Exploring Performance and Impact Across Courses
Rachel Van Campenhout (VitalSource, USA); Benny G Johnson (VitalSource Technologies, USA); Michelle Clark (VitalSource, USA); Melissa Deininger (Iowa State University, USA); Shannon Harper, Kelly Odenweller and Erin Wilgenbusch (Iowa State University, Croatia)

Supporting Academic Teaching with Integrating AI in Learning Management Systems: Introducing a Toolchain for Students and Lecturers
Birgit Pohn (University of Applied Sciences Technikum Wien & Medical University Graz, Austria); Lars Mehnen (Technikum Wien, Austria)

Indonesia); Jamal Zaid (303 Terry Fox Drive, Canada & R&D, Huawei technologies, Canada); Yohandri Yohandri (Universitas Negeri Padang, Indonesia); Muhammad Fauzan Edy Purnomo (Brawijaya University, Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)

SYM1/I: SYMPOSIUM ON ENVIRONMENTAL ELECTROMAGNETIC COMPATIBILITY (EEMC) I

Saturday, September 28, 09:15 - 10:45 (HVAR)

SYM1/I: Symposium on Environmental Electromagnetic Compatibility (EEMC) I

Chair: Dragan Poljak (University of Split, Croatia)

Combined EFIE-EFIE Formulation for PEC and Penetrable Object: Study of Reduced Planar Model Exposed to Dipole Antenna Radiation
Mario Cvetković and Dragan Poljak (University of Split, Croatia)

Analytical Approach to the Assessment of the Step Voltage at the Surface Above the Horizontal Grounding Electrode
Dragan Poljak and Vicko Doric (University of Split, FESB, Croatia); Ljubomir Hrboka (CARNET, Croatia)

Stochastic Analysis in MIMO and Passive Antenna Electric Field Calculation
Marin Galić (Centar za Mjerenja u Okolisu, Croatia); Anna Šušnjara (University of Split & FESB, Croatia); Dragan Poljak (University of Split, Croatia)

A Note on the Use of Hybrid Numerical Method Approach in Dosimetry for Exposure to mmWaves
Maja Škiljo (University of Split, Croatia); Anna Šušnjara (University of Split & FESB, Croatia); Dragan Poljak (University of Split, FESB, Croatia)

Assessment of current flowing through the human body in a case of fault current
Ljubomir Hrboka (CARNET, Croatia); Vicko Doric and Dragan Poljak (University of Split, FESB, Croatia)

Feasibility of Embroidered Body Worn Antenna as EM Sensor for Radiated Emissions Measurement
Muhammad Naufal Arira (Bandung Institute of Technology, Indonesia); Agus D. Prasetyo (Telkom University, Indonesia & Institut Teknologi Bandung,

SYM1/II: SYMPOSIUM ON ENVIRONMENTAL ELECTROMAGNETIC COMPATIBILITY (EEMC) II

Saturday, September 28, 11:00 - 12:30 (HVAR)

SYM1/II: Symposium on Environmental Electromagnetic Compatibility (EEMC) II

Chair: Dragan Poljak (University of Split, Croatia)

Deterministic-Stochastic Methods in Electromagnetic Thermal Dosimetry for the Assessment of Human Exposure to Electromagnetic Fields in GHz Range - tutorial
Dragan Poljak (University of Split, Croatia)

A Multidisciplinary View to the Human Exposure to Electromagnetic Fields - A Note on Multiphysics, Engineering, Biochemical and Legal Aspects
Dragan Poljak (University of Split, Croatia); Ivana Carev (Facutly of Chemistry and Technology, Croatia); Zorica Novaković Šesnić (HOPS, Croatia)

Time Domain Study of Wireless Power Transfer Between Coupled Dipoles Above a Half-Space
Dragan Poljak and Sinisa Antonijevic (University of Split, Croatia)

Measurements of Frequency Splitting Phenomenon in Resonant Wireless Power System of Inductively Fed Antennas
Zoran Blažević, Maja Škiljo, Mario Bartulović, Ante Znaor, Luka Kranjac and Ana Ljubica (University of Split, Croatia)

Spherical Human Phantoms for Characterization of Implanted Antennas
Zvonimir Sipus (University of Zagreb, Croatia); Mingxiang Gao (EPFL, Switzerland); Marko Bosiljevac (University of Zagreb, Croatia); Anja K. Skrivervik (EPFL, Switzerland)

A New Look to the Maxwell's Equations and Wave Equations in Conducting Media
Slavko Vujević (University of Split, Croatia)

PROFESSIONAL PROGRAM

WICT: Workshop on Information and Communication Technologies

Chair: Matko Šarić (University of Split, Croatia)

Centralized Enhancement of Security and Service Delivery
Elisa Benetti (LepidaScpA, Italy); Alessandro Rabiti (Lepida ScpA, Italy); Gianluca Mazzini (LepidaSpA & UniFe, Italy)

RIMAP - Advanced NLP-Based Matchmaking and Reporting Platform
Damir Medved (University of Rijeka & Innerga, Croatia); Benedikt Perak (University of Rijeka, Croatia)

Technical Aspects of Procuring Availability Services for Photovoltaic Plants
Damir Medved (University of Rijeka & Innerga, Croatia); Damir Juričić (Innerga Ltd., Croatia)

SynchEduca: A Web-Based Environment for Simulating Java Synchronization Concepts
Miroslav Popovic (Brightlightness.com, Croatia); Robert Idlbek and Kristian Dokic (Josip Juraj Strossmayer University of Osijek, Croatia)

Using the YOLOv8 model for Fire and Smoke Detection: Precision Analysis in Mediteeranian Olive grooves
Martin Josipović (FESB, Croatia); Ana Kuzmanić Skelin and Mirjana Bonkovic (Faculty of Electrical Engineering, Croatia)

PDS1: Posters/Demos Session

Chair: Josip Lorincz (University of Split, Croatia)

Challenges and Opportunities of Artificial Intelligence in Medical Education: Recommendations for Better Integration in Pre-clinic Curricula
Birgit Pohn (University of Applied Sciences Technikum Wien & Medical University Graz, Austria); Lars Mehnen (Technikum Wien, Austria); Ralf Braun and Sepideh Hatamikia (Danube Private University, Austria)

PDS2: GREENEDGE project PhD students Poster session

Chair: Josip Lorincz (University of Split, Croatia)

PhD student poster presentation: September 26, 11:00 -12:30 and 14:00-15:30

Harnessing Interference for Good
Selim F Yilmaz, Can Karamanlı and Deniz Gündüz (Imperial College London, United Kingdom (Great Britain))

Federated Continual Learning with Knowledge Distillation
Asal Rangrazi asl (Centre Tecnològic de Telecomunicacions de Catalunya, Spain); Marco Miozzo (CTTC/CERCA, Spain); Paolo Dini (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)

Balanced TDMA-based Duty-cycle Scheduling for Enivorment-aware Light-based IoT
Khojiakbar Botirov (University of Oulu, Centre for Wireless Communications, Finland); Hazem Sallouha and Sofie Pollin (KU Leuven, Belgium); Marcos Katz (University of Oulu, Finland)

Environment-Aware Dynamic Operation in Batteryless IoT Sensor Networks
Jimmy Fernandez and Hazem Sallouha (KU Leuven, Belgium); Ihsane Gryech (KULEUVEN, Belgium); Sofie Pollin (KU Leuven, Belgium)

Sustainable LLM Inference over Energy Constrained Edge Networks
Aria Khoshsirat, Giovanni Perin and Michele Rossi (University of Padova, Italy)

Using Generative-based models in Federated Learning in Resource-Constrained IoT Networks
Ali Firouzi Abriz (CTTC, Spain); Charalampos Kalalas and Paolo Dini (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)

Semantic Compression with Realism Constraints
Yassine Hamdi (Imperial College London, United Kingdom (Great Britain)); Aaron Wagner (Cornell University, USA); Deniz Gündüz (Imperial College London, United Kingdom (Great Britain))

Exploiting Inter-Spreading Factor Orthogonality for Multi-Hop LoRa Networks
Luca Scalambrin (Worldsensing & Open University of Catalonia, Spain); Hazem Sallouha and Sofie Pollin (KU Leuven, Belgium); Xavier Vilajosana (Universitat Oberta de Catalunya, Spain)

Contrastive Representation Learning for resource-constrained Edge Devices
Fernanda Famá (Centre Tecnologic de Telecomunicacions de Catalunya (CTTC), Spain); Roberto Matheus Pinheiro Pereira (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC/CERCA) & Universitat Politècnica de Catalunya, Spain); Charalampos Kalalas and Paolo Dini (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)

Decentralized Federated Contrastive Class and Domain Continual Learning
Chiara Lanza (Centre Tecnologic de Telecomunicacions de Catalunya, Spain); Marco Miozzo (CTTC/CERCA, Spain); Eduard Angelats (CTTC, Spain); Paolo Dini (Centre Tecnològic de Telecomunicacions de Catalunya (CTTC), Spain)

Enabling Accurate Neural Inference on Resource-Constrained Devices
Marcello Bullo (Toshiba BRIL, United Kingdom (Great Britain)); Seifallah Jardak (Toshiba Research Europe, United Kingdom (Great Britain)); Pietro Carnelli (University of Bristol, United Kingdom (Great Britain)); Deniz Gündüz (Imperial College London, United Kingdom (Great Britain))

Semantic Channel Equalization through Relative Representations
Tomás Hüttebräucker (CEA, France); Mohamed Sana (CEA LETI Grenoble, France); Emilio Calvanese Strinati (CEA-LETI, France)

Context-aware Intrusion Detection using Graph Neural Networks
Hamdi Friji (CEA-LIST & Telecom Sud Paris, France); Alexis Olivereau (CEA, LIST, France); Mireille Sarkiss (Telecom SudParis, France)

Friday, September 27, 16:30 - 18:00 (ŠOLTA)

SYM2: SYMPOSIUM ON INFORMATION SECURITY AND INTELLECTUAL PROPERTY (ISIP)

ISIP INVITED TALK: ANA GLOBOČNIK ŽUNAC

ICT AND VALIDATION OF A MEASUREMENT SCALE FOR ASSESSMENT OF COMMUNICATION AS A SEGMENT OF CYBERLOAFING

Ana Globočnik Žunac, Assoc.Prof. Ph.D
University North, Department of Business Economics, Croatia

Abstract:
The security of modern business is inseparable from the security of information business systems. In this sense, responsibility for system security rests with the management, which will set up system security protections, but also with employees who at some point use information systems for private purposes. This term is called cyberloafing, and when managing human resources, it is necessary to understand the phenomenon of cyberloafing, monitor and manage it. It is important to be able to assess where the security risks for the information business system come from. The paper presents a theoretical discursive analysis of the concept of cyberloafing and presents a development and validation of a metric instrument for monitoring the area from which the threat to system security comes. The instrument was developed on the example of the health system, specifically cyberloafing by nurses, but as validation and statistical analysis showed its reliability, it can be used in any business sector.

17

Biography:

Associate Professor Ph.D. Ana Globočnik Žunac completed her doctorate in the field of information and communication sciences at the doctoral study of the Faculty of Philosophy at University of Zagreb. She is employed at the University North, Department of Business Economics and she lectures subjects in the field of management psychology and communicology. As well she takes part in managing the subject called Contemporary psychosocial aspects of professional communication at the doctoral study Media and Communication at University North. Previously she was employed as executive director of HEI, and later assistant of vice rector for scientific work and international affairs at University North. Today she manages international affairs of the Department within the University.

The focus of her scientific research work is the psychology of communication, especially organizational communication and managerial communication, i.e., interpersonal level of communication. It is precisely for this reason that she conducted numerous research projects in the field of leadership and management of human resources. She has published more than fifty scientific research papers in the mentioned fields and has written and published several books. She was visiting professor at University in Tirana, Albania and Gea College in Ljubljana, Slovenia and for 15 years he has been a permanent lecturer at VSE, University of Economics in Prague, Czech Republic. She was twice awarded for the best paper at scientific conferences and was awarded by Rector for the exceptional contribution to the development of the Department of Communication and PR at University North.

ISIP INVITED TALK: NINA GUMZEJ

TOWARDS CONSISTENT DELISTING IN THE EU: CHALLENGES OF GEO-BLOCKING AND PUBLIC INTEREST VARIATIONS

Nina Gumzej, PhD
University of Zagreb Faculty of Law, Croatia

Abstract:
The lecture shifts from the widely debated topic of regional versus global delisting under EU law to a comprehensive analysis of the Google v. CNIL (C-507/17) ruling, with particular focus on its implications for EU-wide delisting practices. Since this aspect of delisting practices has not been extensively explored in academic literature, it presents a critical subject for further discussion. The analysis centers on the complexities not explicitly addressed in the ruling's dispositif, which leaves significant interpretative leeway to the national data protection authorities, courts and the search engine operators. Key issues such as the role of geo-blocking, varying public interests across EU member states and the need for robust regulatory cooperation are explored, especially in light of Google's standard delisting processes. Furthermore, the lecture raises concerns about inconsistencies in the protection of EU citizens, as the informal delisting procedures implemented by search engines differ from the formal processes overseen by data protection authorities and the courts.

Biography:

Nina Gumzej is Associate Professor at the University of Zagreb Faculty of Law Chair of Information Technology Law and Informatics. In her scientific research and teaching work, she has been addressing the issues of the impact of information and communication technologies on individual rights and the related legal and regulatory challenges. As an external expert, she has been involved in several research studies for the European Commission. She is a member of the editorial board of two international scientific journals and serves on the board of four international scientific conferences in her field.

SYM2: Symposium on Information Security and Intellectual Property (ISIP)
Co-chairs: Marija Boban (University of Split, Croatia), Gordan Ježić (University of Zagreb, Croatia)

SBAR - Advantages and Disadvanatges of Structured Nursing Communication
Marko Antić, Ana Globočnik Žunac and Vesna Sesar (University North, Croatia)

The Challenges of Implementation of the Directive on Security of Network and Information Systems 2 for the National Telecommunication Network Operators
Dražen Lučić (Hrvatska Gospodarska Komora, Croatia)

Forensics of IoT Devices and Wireless Sensor Networks
Marija Boban (University of Split Faculty of Law, Croatia); Vedran Uroš (Marko Marulic Polytechnic in Knin, Croatia)

Personal Data Protection in Theory and Practice
Marija Boban and Ivan Vukusic (University of Split, Faculty of Law, Croatia)

Legality of Notifying Website Owners on Delisted Search Results under the GDPR
Nina Gumzej (University of Zagreb Faculty of Law, Croatia)

Saturday, September 28, 11:00 – 11:30 (HVAR)

TUTORIAL

Dragan Poljak, PhD
University of Split, FESB, Split, Croatia

Deterministic-Stochastic Methods in Electromagnetic Thermal Dosimetry for the Assessment of Human Exposure to Electromagnetic Fields in GHz Range

Abstract: Although deterministic numerical techniques provide a satisfactory insight into bioelectromagnetics phenomena in GHz range, there are still some issues that cannot be addressed efficiently by using deterministic modeling only. The biological tissues are represented by electrical properties; permittivity, conductivity and permeability. However, the exact value of these parameters is not known, as their values may vary due to frequency, gender, age, or health of a person, respectively. Most of these parameters are obtained under different measurement on ex vivo animal and human tissues, and exhibit large variations from their averages. When used in computational models, these average values lead to rough approximation of the realistic scenarios. The uncertainty from the input is, hence, inevitably propagated to the output of interest such as; induced field, specific absorption rate (SAR) or absorbed power density (Sab). These problems could be somewhat overcome by a combination of deterministic models with stochastic methods. Therefore, the uncertainty quantification (UQ) deals with the uncertainties in the model response, due to the input parameters being random variables, while sensitivity analysis (SA) provides the information on the impact of the mutual interactions between the input variables to the output value of interest. Usual UQ methods rely upon statistical approaches, such as Monte Carlo (MC) simulations, being easy to implement but the sample size needs to be very high (>100.000), resulting in a slow convergence rate. This drawback could be overcome by using sophisticated stochastic modeling. Tutorial first covers deterministic approaches in electromagnetic-thermal dosimetry with particular emphasis to exposures in GHz frequency range mostly pertaining to 5G systems. The use of integral equation approaches featuring Method of Moments (MoM) and Boundary Element Methods (BEM), and differential equation approaches such as Finite Element Methods (FEM) is addressed. Some strengths and weaknesses of both approaches are discussed throughout Tutorial as well. Tutorial then deals with stochastic procedures in electromagnetic-thermal dosimetry in lower portion of GHz frequency range featuring the use of Stochastic Collocation Method (SCM). Several examples pertain to the analysis of planar and non-planar multilayer tissue models and to the analysis of anatomically based realistic multi-layered models of the head exposed to radiation from 5G communication systems. The presentation is based on:

- D. Poljak, Deterministic-Stochastic Modeling in Electromagnetic-Thermal Dosimetry, IEEE ICES Workshop on Computational Bioelectromagnetics (virtual), Feb. 2024.
- D. Poljak, A Susnjara, Deterministic-Stochastic Modeling in Computational electromagnetics, IEEE Press/Wiley, New Jersey, 2024.

Biography: *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 (CEM), electromagnetic compatibility (EMC), bioelectromagnetics, ground penetrating radar (GPR), magnetohydrodynamics (MHD) and plasma physics). To date Prof. Poljak has published around 200 journal, and more than 300 conference papers, respectively, and authored some books, e.g. two by Wiley, one by IEEE Press, 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 and 2023), Croatian sect. of IEEE annual Award (2016), Technical Achievement Award of the IEEE EMC Society (2019), George Green Medal from University of Mississippi (2021) and Certificate of Appreciation from IEEE Standards Associations (2022). 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 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.*

GREENEDGE project activities

Thursday, September 26, 16:30-18:00 (KORČULA)

Day 1: September 26, 2024
- 9:30 - 18:00, GREENEDGE project PhD students Poster session, Hall: ADRIATIC (SoftCOM2024 conference lobby)
- PhD student presentation: 11:00-12:30 and 14:00-15:30
- 19:00, Local restaurant - Social event (gala dinner) – participants of the GREENEDGE project and guests.

Day 2: September 27, 2024 - Symposium on Green Networking and Computing (SGNC2024)
- 9:30 - 11:00 (Room: KORČULA), Keynote speech: Marcos Katz (University of Oulu, Finland), Speech title: Towards Truly Sustainable Wireless Communication Systems
- 14:30 - 16:00 (Room: KORČULA), Special session on Green Networking and Computing – presentation of accepted scientific papers at SGNC2024
- 16:30-18:00 (Hall: KORČULA), GREENEDGE PhD student contest and award ceremony – research work presentation of the GREENEDGE contest winners' and best work awards
  - o 16:30 - 16:50: Greenedge challenge: Andrea Scanu, Luca Vergolani, University of Padova, "Energy Aware Image Classification".
  - o 16:50 - 17:10: Greenedge challenge: Mohammad Khalili, University of OULU, "Energy Efficient IoT Networks".
  - o 17:10 - 18:00: Greenedge challenge awards.

BUSINESS FORUM

Friday, September 27, 14:30-16:00 (BRAČ 2)

PANEL DISCUSSION: The Importance of Digital Skills in Developing the Local Tech Community

In this panel, we explore the crucial role of education in developing our technological community. We discuss formal, non-formal, and informal education, covering study programs, courses, professional development, and lifelong learning initiatives. Our focus is on learners of all ages and backgrounds, as well as educators and self-learners.

Key topics include:

- The most in-demand digital skills in the EU and global tech community
- Strategies for building a strong tech community through free education programs
- The importance and challenges of cybersecurity education
- Balancing theoretical knowledge with practical skills in a diverse programming environment
- Motivating learners of all ages to acquire digital skills
- Addressing the market demand for experienced professionals vs. the need for educated newcomers
- The impact of AI on various tech roles and the future of the industry

MODERATOR:
Damir Brčić, Head of Digital Dalmatia

Our distinguished panelists include:
- **Assoc. Prof. Dr. Goran Zaharija** - Coordinator of EDIT JuniorDev
- **Prof. Dr. Saša Mladenović** - Coordinator of EDIT CodeSchool RIWA program
- **Mislav Kovač** - Coordinator and educator at CyberSec Academy
- **Marko Perajica** - WEB 3.0 workshops educator and software engineer

Through this discussion, we aim to provide insights into the challenges and opportunities in digital skills education, and inspire attendees to contribute to the robustness of our tech community.

Friday, September 27, 09:30-11:00 (BRAČ 2)

Workshop on Contemporary technologies for natural and man-made disaster management

Expected impact of the Horizon Europe Strategic Plan 2021-2024: "Losses from natural, accidental and human-made disasters are reduced through enhanced disaster risk reduction based on preventive actions, better societal preparedness and resilience and improved disaster risk management in a systemic way."

Workshop topic: Enhanced exploitation of the latest scientific results (e.g., from research programmes and institutions) and integrated technologies (e.g. Earth observation, in situ data collection, advanced modelling, AI) into enhanced understanding of high-impact hazards and complex compound and cascade events and improved prevention, preparedness to mitigation, response, and recovery tools.

prof.dr.sc. **Vladan Papić** (University of Split, Croatia)

1. **Presentation of the (Interreg VI-A) IPA CBC Croatia – Bosnia and Herzegovina – Montenegro HR-BA-ME00392 Project: Contemporary technologies for natural and man-made disasters management - – SmartProtect**
    Project summary: The overall objective of SmartProtect project is to further enhance the capacity of emergency service organizations within the area and to increase cross-border effectiveness in tackling natural and man-made disasters primary wildfires, land-cost devastation, subterranean waters and sea pollution. This objective will be achieved by improving prevention and emergency management measures and instruments using advanced, contemporary technologies such as remote sensing, unmanned aerial vehicle (UAV), cloud and high-performance computing (HPC) as well as advanced software technologies such as computer vision (CV) and artificial intelligence (AI).

    PRESENTERS:

    Ante Ivanović (mag. ing. agr.), obtained a Master's degree in Phytomedicine at the Faculty of Agriculture of the University of Zagreb in 2012. He then worked as an expert associate at the Croatian Center for Agriculture, Food and Rural Affairs in the Department of Plant Protection in Solin. In April 2014, he was employed as International Sales Manager at AWRON GmbH in Munich. Distinguishes himself as an outstanding expert in the preparation and implementation of projects co-financed by EU funds and other international and national funds. As an expert in the preparation and implementation of EU projects in the Cluster for Eco-Social Innovation and Development CEDRA Split, he actively participated in international and national projects (ERASMUS+, Interreg, Norway Grant) in cooperation with the Center of Excellence of Split-Dalmatia County. He is currently the Head of the Department for Organizational and International Affairs and EU Funds Firefighting center for Education and Technological Development Split – VACETRAS.

    Sven Gotovac (prof.dr.sc.) was born on 07.22.1960. He graduated in 1983. at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture. He received master's degree at the University of Zagreb, Faculty of Electrical Engineering in 1988 and his PhD at the TU Berlin in 1994.
    From 1884 he worked at the University of Split, Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture. Currently he is full professor and head of the Department of Computer Architecture and Operating Systems.
    He worked on the three national research projects, one international, and has been leader of two national and currently leader of one international project at the ALICE experiment in CERN. He was Dean of the Faculty of electrical engineering, mechanical engineering and naval architecture, University of Split from 2015 to 2020.
    He is co-author on about a four hundred scientific papers in indexed journals, 32 papers at international conferences and co-author of two books. He was mastering six PhDs and five master's theses (http://bib.irb.hr/lista-radova?autor=108173).
    He is married, father of four children. He speaks English, German and Italian.

2. **Discussion**

Friday, September 27, 16:30-18:00 (BRAČ 2)

WESC: ERICSSON NIKOLA TESLA SUMMER CAMP 2024 WORKSHOP

Ericsson Nikola Tesla Summer Camp is a summer workshop for senior students from Croatian and universities from the region. The first Summer Camp was organized back in 2001 and since then more than 600 students participated. Students work five weeks on real problems in real industrial environment with mentors both from the company and universities.

MODERATORS:

Denis Duka, Ericsson Nikola Tesla d.d., Split

Denis Duka received his MSc in telecommunication science from the Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture, University of Split, Croatia in 2005. He is currently employed at Ericsson Nikola Tesla, Split and works as Department manager in Digital society domain.

Marta Balić, Ericsson Nikola Tesla d.d., Split

Marta Balić received a bachelor's degree and master's degree in computer science from the Faculty of Electrical Engineering, Mechanical Engineering, and Naval Architecture, University of Split, Croatia in 2020 and 2022. She is currently employed at Ericsson Nikola Tesla, Split and is pursuing a PhD degree at the University of Split. Her research interests include GNSS system.

TELEH - Implementation of web-based audio/video communication and scheduling platform for eHealth solutions.
Team members: Iva Pleić, Petar Parlov, Ana Marija Župić, Katarina Novaković
Mentor(s): Ivan Drnasin

CDSS - Clinical Decision Support in triage process for eHealth solutions
Team members: Sunčica Prgomet, Iva Krezo, Luka Jovanović, Barbara Ivković
Mentor(s): Ivan Drnasin, Krešimir Kerš

Log debugger - Automatic debugging from Big Data of 4G/5G RBS logs
Team members: Jerko Ćurković, Karla Pupačić
Mentor(s): Nikša Cerovac, Igor Vukman, Duje Kelam

Ambrosia - Review of the Applications of Remote Sensing in Ambrosia detection use cases
Team members: Darko Vujica, Dora Bekavac, Mia Mužinić
Mentor(s): Naomi Frida Munitić, Veronika Ozretić Vidak

User Activity Tracking
Team members: Mia Jadrić, Ivana Sučić, Nina Rađa, Tomislav Damjanović
Mentor(s): Lucia Jurkovic, Marija Pajdek, Luka Prusac

GNSS spoofing - GNSS spoofing attacks performance and detection by using ML classification methods
Team members: Leonarda Pavlovski, Tin Jurič
Mentor(s): Marta Balić, Katarina Radoš

ABOUT

The 32nd International Conference on Software, Telecommunications and Computer Networks (SoftCOM 2024) will be held on September 26-28 in Bol (island of Brač), Croatia.

ELECTRONIC PROCEEDINGS

Electronic Proceedings and Final Program will be available at the conference website.

LANGUAGE

The Conference language is English.

SECRETARY

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