

## S1: MACHINE LEARNING APPLICATIONS

1570654412	Machine Learning Based Task Distribution in Heterogeneous Fog-Cloud Environments	Mohammadreza Pourkiani (University of Rostock, Germany); Masoud Abedi (Thünen-Institut of Baltic Sea Fisheries, Germany)
1570648910	Context-based system for User-Centric Smart Environment	Katarina Mandarić and Pavle Skocir (University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia); Gordan Jezic (University of Zagreb, Croatia)
1570655333	Reinforcing text independent Speaker Recognition with Short Utterances using SVM	Rania Chakroun (ENIS, Tunisia); Mondher Frikha (Enet'com, Tunisia)
1570652993	Soft Network Organisation Towards Future Distributed ML-based Sensing Systems	Krzysztof Cichoń (Poznan University of Technology, Poland)
1570652742	Neural networks for image recognition in mobile applications	Aneta Poniszewska-Maranda (Lodz University of Technology, Poland)
1570652884	Machine learning methods for Internet of Things in medical diagnosis	Aneta Poniszewska-Maranda and Tomasz Krym (Lodz University of Technology, Poland)
1570652886	Improved Whale Optimization Algorithm for SVM Model Selection: Application in Medical Diagnosis	Sarra Ben Chaabane (Tunis El Manar University, Tunisia); Sofiane Kharbech (University of Lille, France); Akram Belazi (ENIT, Tunisia); Ammar Bouallegue (National School of Engineers of Tunis, Tunisia)
1570648901	A Fast and Robust, Forehead-Augmented 3D Face Reconstruction from Multiple Images using Geometrical Methods	Alexandru I. Marinescu (Babes Bolyai University, Romania); Adrian Sergiu Darabant (Babes Bolyai University & Cluj Napoca, Romania); Tudor Alexandru Ileni (Babes Bolyai University, Romania)
1570653005	Comparison of Q-Learning based Traffic Light Control Methods and Objective Functions	Péter Pálos and Árpád Huszák (Budapest University of Technology and Economics, Hungary)
1570652958	A new language independent strategy for clickbait detection	Claudia Ioana Coste and Darius Bufnea (Babeş-Bolyai University, Romania); Virginia Niculescu (Babes-Bolyai University of Cluj-Napoca, Romania)
1570646176	Detecting leaf plant diseases using deep learning: A review	Horea-Bogdan Muresan (Babes-Bolyai University, Romania); Adriana M Coroiu (BABES-BOLYAI University, Romania); Alina Calin (Babes,-Bolyai University, Romania)
1570652665	A musical similarity metric based on symbolic aggregate approximation	Alexandru I. Marinescu (Babes Bolyai University, Romania)

## S2: SIGNAL PROCESSING AND CODING

1570649498	Low Complexity Bounds on a Class of Irregular LDPC Belief-Propagation Decoding Thresholds	Francesca Vatta, Alessandro Soranzo, Massimiliano Comisso, Giulia Buttazzoni and Fulvio Babich (University of Trieste, Italy)
1570648611	A Low Inertia Guided Auto-Encoder for Anomaly Detection in Networks	Yves Nguimbous Nsoga (Higher School of Communications of Tunis & Digital Security Research Laboratory, Tunisia); Riadh Ksantini (University of Windsor, Canada); Adel Bouhoula (Higher School of Communications of Tunis, Tunisia)
1570646681	The Black-White Pixels Ratio in Medial Temporal Lobe Brain Structure in Transcranial B-Images as a Measurable Marker of Alzheimer's Disease Probability: The Reproducibility Overview	Jiri Blahuta (Moravian Business College Olomouc), Tomas Soukup (Silesian University in Opava & Moravian Business College Olomouc), Lukas Pavlik (Moravian Business College Olomouc)
1570655188	Removal of unwanted objects from still photographs	Rosana Balanescu, Adrian Sterca and Ioan Badarinza (Babes-Bolyai University, Romania)
1570655334	An improved system for large population text independent Speaker Recognition with short utterances	Rania Chakroun (ENIS, Tunisia); Mondher Frikha (ENET'Com Sfax Tunisia, Tunisia)

## S3: 5G TECHNOLOGIES

1570648893	Towards intelligent Industry 4.0 5G networks: A first throughput and QoE measurement campaign	William Tärneberg (Lund University, Sweden); Omar Hamsis and John Hedlund (RISE Research Institutes of Sweden AB, Sweden); Kjell Brunnström (RISE Research Institutes of Sweden AB & Mid Sweden University, Sweden); Emma Fitzgerald (Lund University, Sweden & Warsaw University of Technology, Poland); Andreas Johnsson and Viktor Berggren (Ericsson Research, Sweden); Maria Kihl (Lund University, Sweden); Akhila Rao and Rebecca Steinert (RISE Research Institutes of Sweden, Sweden); Caner Kilinc (Ericsson Research, Sweden)
1570655070	Genetic Algorithm for Inter-Slice Resource Management in 5G network with Isolation	Xu Yang, Yue Liu, leok Cheng Wong, Yapeng Wang and Laurie Cuthbert (Macao Polytechnic Institute, Macao)
1570650794	Shannon Capacity Evaluation for 5G Communications Using the 3D Random Waypoint Mobility Model	Massimiliano Comisso, Francesca Vatta, Giulia Buttazzoni and Fulvio Babich (University of Trieste, Italy)
1570649502	Analysis of 5G outdoor and indoor coexistence scenarios for spectrum sharing with Active Antenna System	Valeria Petrini (Fondazione Ugo Bordoni, Italy); Claudia Carciofi (FUB, Italy); Paolo

		Grazioso and Manuel Faccioli (Fondazione Ugo Bordoni, Italy)
1570649512	Circular Dipole Array With Omnidirectional and Beamsteering Capabilities for 5G Communications	Saber Dakhli and Ameni Cherif (Innov'Com Laboratory, SUPCOM, University of Carthage Tunis, Tunisia); Jean-marie Floch (IETR-INSA Rennes, France); F. Choubani (SUP'COM, Tunisia)
1570655180	A Stacked Patch Antenna with Periodic EBG Structure And Switching-beam Capability for 5G Applications	Ilhem Gharbi (University of Carthage, Tunisia); Rim Barrak (Higher School of Communications of Tunis, Tunisia); Jean Marc Ribero (Université Côte d'Azur & CNRS, LEAT, France); Ragad Hedi (Unit of Research in High Frequency Electronic Circuits and Systems, France); Mourad Menif (GRESKOM Laboratory, University of Carthage, Tunisia)

#### S4: WIRELESS COMMUNICATIONS

1570648651	Massive MIMO Pilot Scheduling over Cloud RAN for Industry 4.0	Haorui Peng and William Tärneberg (Lund University, Sweden); Emma Fitzgerald (Lund University, Sweden & Warsaw University of Technology, Poland); Maria Kihl (Lund University, Sweden)
1570648818	Power Amplifier Nonlinearities Effects on Massive MIMO Uplink Channel Estimation	Noura Lahbib, Maha Cherif, Moez Hizem and Ridha Bouallegue (Carthage University, Sup'Com, Innov'Com, Tunisia)
1570648835	The NDIC Algorithm of HPA Nonlinearity on MU-Massive MIMO System Performance	Maha Cherif and Ridha Bouallegue (Innov'Com Lab, Tunisia)
1570655317	Weighted Kalman Based Detection for Uplink MIMO Systems	Wafa Abid (National Engineering School of Tunis & Innov'COM Laboratory, Supcom, Tunisia); Moufida Hajjaj (SUP'COM, Tunisia); Ameni Mejri (National Engineering School of Tunis & SYS'COM Laboratory, Tunisia); Ridha R. Bouallegue, B. (École Supérieure des Communications de Tunis, Tunisia)
1570655312	Moments of Signals over Wireless Relay Fading Environment with Line-of-Sight	Dragana Krstić (Faculty of Electronic Engineering, University of Niš, Serbia); Petar Nikolić (Tigar Tyres, Pirot, Serbia); Zoran Popovic (Technical College of Vocational Studies, Zvečan, Serbia); Sinisa Minić (Teachers College in Prizren - Leposavic, Serbia); Mihajlo Stefanović (University of Nis, Serbia)
1570652065	Bonded Wireless Networks: the Gateway to Real-Time Mobile Applications	Marcin Brzozowski (IHP, Germany); Peter Langendoerfer (IHP Microelectronics, Germany)

1570649491	Coexistence of IEEE 802.11p and the TDMA-based AS-DTMAC Protocol	Fouzi Boukhalfa and Mohamed Hadded (VEDECOM, France); Paul Muhlethaler (INRIA, France); Oyunchimeg Shagdar (VEDECOM, France)
1570655323	Scaling up routing in nanonetworks with asynchronous node sleeping	Ali Medlej (FEMTO-ST Institute, Universite Bourgogne Franche-Comt'e, Montb'eliard & Lebanese University, Faculty of Computer Science, Lebanon); Kamal Beydoun (Lebanese University & Faculty of Sciences I, Lebanon); Eugen Dedu and Dominique Dhoutaut (FEMTO-ST Institute, Univ Bourgogne Franche-Comt'e, CNRS, France)
1570655326	Simplified and Reliable Wireless Data Transmission in Ultra Dense Networks	Łukasz Kułacz and Adrian Kliks (Poznan University of Technology, Poland)
1570648897	Characterisation of Unsolicited Traffic Advertisements in Mobile Devices	José Pedro Veiga Silva, Paulo Carvalho and Solange Rito Lima (Centro Algoritmi, Universidade do Minho, Portugal)
1570653003	HiPerConTracer - A Versatile Tool for IP Connectivity Tracing in Multi-Path Setups	Thomas Dreibholz (Simula Metropolitan Centre for Digital Engineering, Norway)
1570649511	Mixing of commercially available 3D printing filaments for novel RF components	Jan Köhler and Wolfgang Bosch (Graz University of Technology & Institute of Microwave and Photonic Engineering, Austria); Erich Leitgeb and Reinhard Teschl (Graz University of Technology, Austria); David Pommerenke (TU Graz, Austria)

## S5: OPTICAL COMMUNICATIONS

1570649485	Quality of Service in ASON/GMPLS Network with Hierarchical Control Plane Structure	Sylwester Kaczmarek (Gdansk University of Technology & Faculty ETI, Poland); Magdalena Młynarczuk (Gdańsk University of Technology & Politechnika Gdańska, Poland)
1570655871	Evaluation of Intensity Modulated WDM FOTS with Interleaved RS-FEC Code Schemes	Svitlana Matsenko, Sandis Spolitis and Vjaceslavs Bobrovs (Riga Technical University, Latvia)
1570648773	"Banda Calculus": a Tool for Bandwidth Estimation in Broadband Network Infrastructures	Gian Paolo Jesi (Lepida ScpA, Italy); Gianluca Mazzini (LepidaSpA & UniFe, Italy)

## S6: SOFTWARE DEVELOPMENT METHODS

1570652968	DevOps for AI - Challenges in Development of AI based Applications	Lucy Ellen Lwakatare, Ivica Crnkovic and Jan Bosch (Chalmers University of Technology, Sweden)
1570652872	Software Implementation of Error Detection and Correction Against Single-Event Upsets	Eugenio Baviera, Giovanni Schettino, Emanuele Tuniz and Francesca Vatta (University of Trieste, Italy)
1570648594	Recommendations for enhancing security in Microservice environment altered in an intelligent way	Tihomir Tenev (Faculty of Mathematics and Informatics, Bulgaria); Simeon Tsvetanov (Sofia University, Bulgaria)
1570652825	Optimization of software development/maintenance process by Automated Summarizing of Bug Reports	Muhammad Irtaza Nawaz Tarar (National University of Sciences and Technology (NUST), Pakistan)
1570654962	Comparative Case Study of Plan-Driven and Agile Approaches in Student Computing Projects	Rafał Włodarski and Aneta Poniszewska-Maranda (Lodz University of Technology, Poland)
1570655240	A NLP approach to estimating effort in a work environment	Dan A Iftinca and Catalin Rusu (Babes Bolyiai University, Romania); Oliver Oswald (MHP, Romania)

## S7: VEHICULAR NETWORKS

1570652687	Vehicular Networking: ITS-G5 vs 5G Performance Evaluation using Road Weather Information	Muhammad Naeem Tahir (Finnish Meteorological Institute (FMI) & University of Oulu, Center of Wireless Communication, Finland); Timo Sukuvaara (Finnish Meteorological Institute, Finland); Marcos Katz (University of Oulu, Finland)
1570649531	Survey and Evaluation of Internet of Vehicles Connectivity Challenges	Victor Farias Borges, Danilo F S Santos and Angelo Perkusich (Federal University of Campina Grande, Brazil); Krzysztof Mateusz Malarski (Technical University of Denmark, Denmark)
1570648876	Centralized Coordination of Autonomous Vehicles at Intersections	SeyedeZahra Chamideh, William Tärneberg and Maria Kihl (Lund University, Sweden)
1570654900	Smart Contract-Based Access Control for the Vehicular Networks	Amira Kchaou (University Carthage, Tunisia); Samiha Ayed (Université Technologique de Troyes, France); Ryma Abassi (School of Communication Engineering, Sup' Com, Tunisia); Sihem Guemara El Fatmi (University of Cathage, Tunisia)

## SS1: SPECIAL SESSION ON QoS IN WIRED AND WIRELESS NETWORKS

1570655261	Analytical SINR for D2D communication underlay 5G Networks	Sawsan Selmi (University Tunis El Manar & Tunisia, Tunisia); Ridha Bouallegue (Innov'COM @ Sup'Com., Tunisia)
1570655327	Joint Spectral and Energy Efficient Multi-hop D2D Communication Underlay 5G Networks	Sawsan Selmi (University Tunis El Manar & Tunisia, Tunisia); Ridha Bouallegue (Innov'COM @ Sup'Com., Tunisia)
1570649496	MAC-aware Routing Protocols for Vehicular Ad Hoc Network s: A Survey	Abir Rebei (Faculty of Science of Gabes, Tunisia); Mohamed Hadded (VEDECOM, France); Haifa Touati (Faculty of Sciences of Gabes & Hatem Bettahar IResCoMath Research Unit, Tunisia); Fouzi Boukhalfa (VEDECOM, France); Paul Muhlethaler (INRIA, France)
1570655600	Mobility Support for Energy and QoS aware IoT Services placement in the Fog	Tanissia Djemai (LAAS-CNRS, France); Stolf Patricia (IRIT Universite Paul Sabatier UTM IUT de Blagnac, France); Thierry Monteil (LAAS-CNRS, University of Toulouse, France); Jean-Marc Pierson (Univerty Paul Sabatier, Toulouse, France)
1570655182	IP Multihoming Throughput Maximization based on Passive RTT Measurements	Adrian Sterca (Babes-Bolyai University, Romania); Darius Bufnea (Babeş-Bolyai University, Romania); Virginia Niculescu (Babes-Bolyai University of Cluj-Napoca, Romania)

## SS2: SPECIAL SESSION ON ADVANCED EDUCATIONAL TECHNOLOGIES

1570657266	Factual Knowledge Acquisition and Remembering Using Digital Flashcard Tool	Matea Markić Vučić (SPARK School, Bosnia and Herzegovina); Suzana Tomaš (University of Split, Faculty of Humanities and Social Sciences, Croatia); Slavomir Stankov (University of Split, Croatia)
1570645849	Learning, Teaching, and Making Music Together in the COVID-19 Era Through IEEE 1599	Adriano Baratè and Luca Andrea Ludovico (Università degli Studi di Milano, Italy); Goffredo Haus (University of Milan, Italy)
1570648774	Syntax-aware Neural Semantic Role Labeling for Morphologically Rich Languages	Daniel Vasić (University of Mostar & Faculty of Science Math and Education, Bosnia and Herzegovina); Mirela Kundid Vasić (University of Mostar & Faculty of Mechanical Engineering and Computing, Bosnia and Herzegovina)
1570646342	Coding training proposal for kindergarten	Elisa Benetti (LepidaScpA, Italy); Gianluca Mazzini (LepidaSpA & UniFe, Italy)

### SS3: SPECIAL SESSION ON SERVICE QUALITY, RELIABILITY AND SECURITY

1570648889	Intrusion Detection in Digital Twins for Industrial Control Systems	Fatemeh Akbarian (Lund University, Sweden); Emma Fitzgerald (Lund University, Sweden & Warsaw University of Technology, Poland); Maria Kihl (Lund University, Sweden)
1570648909	Distributed analysis tool for vulnerability prioritization in corporate networks	Michał Walkowski (Wroclaw University of Science and Technology, Poland); Maciej Krakowiak (DSecure, Poland); Jacek Oko and Sławomir Sujecki (Wroclaw University of Science and Technology, Poland)
1570649506	Efficient and Private OpenPGP Certificate Updates	Tobias Mueller (Uni Hamburg, Germany)
1570647582	Modern Codecs by Video Streaming under Use DASH Technique: An Objective Comparison Study	Tadeus Uhl (Maritime University of Szczecin/Poland, Poland); Christian Hoppe (Nextragen Solutions GmbH, Germany); Janusz Henryk Klink (Wroclaw University of Science and Technology, Poland)
1570647189	Video Quality Assessment: some remarks on selected objective metrics	Janusz Henryk Klink (Wroclaw University of Science and Technology, Poland); Tadeus Uhl (Maritime University of Szczecin/Poland, Poland)

### SS4: SPECIAL SESSION ON SECURITY AND DIGITAL FORENSICS

1570655286	Towards Creation of Automated Prediction Systems for Trust and Dependability Evaluation	Emilia Cioroica and Thomas Kuhn (Fraunhofer IESE, Germany); Stanislav Chren (Faculty of Informatics, Masaryk University, Brno, Czech Republic); Oum-El-Kheir Aktouf (Grenoble INP - LCIS, France); Alf Larsson (Ericsson, Sweden); Ram Chillarege (Chillarege Inc., USA); Daniel Schneider (Fraunhofer Institute, Germany); Christian Wolschke (Fraunhofer IESE, Germany)
1570652988	Behavior-based Anomaly Detection for Securing Smart Home Systems Automation	Noureddine Amraoui (Faculty of Sciences of Tunis, Tunisia); Belhassen Zouari (University of Carthage, Tunisia)
1570648860	The DAO Induction Attack Against the RPL-based Internet of Things	Ahmad Shabani Baghani, Sonbol Rahimpour and Majid Khabbazian (University of Alberta, Canada)
1570652453	On Recent Security Issues in Machine Learning	Mohammed M. Alani (United Arab Emirates)
1570655319	A Game Theoretic Approach For Deploying Forensic Ready Systems	Yosra Lakhdhar (Communication Networks and Security Research Lab., University of Carthage, Tunisia); Slim Rekhis (University of Carthage &

		Communication Networks and Security Research Lab., Tunisia); Essaid Sabir (ENSEM, Hassan II University of Casablanca, Morocco)
1570653238	Iris and Foot based Sustainable Biometric Identification Approach	Shahzad Ashraf (Hohai University Changzhou Jiangsu, China); Sehrish Saleem (Muhammad Nawaz Sharif University of Engineering & Technology Multan, Pakistan); Tauqeer Ahmed (Hohai University Changzhou Jiangsu, China); Zeeshan Aslam (Petroweld Kurdistan Erbil, Iraq); Muhammad Shuaeeb (Dow University of Health Sciences, Karachi, Pakistan)
1570649505	Performance Impact Analysis of Security Attacks on Cross-Layer Routing Protocols in Vehicular Ad hoc Networks	Sihem Baccari (Faculty of Science of Gabes, Tunisia); Haifa Touati (Faculty of Sciences of Gabes & Hatem Bettahar IResCoMath Research Unit, Tunisia); Mohamed Hadded (VEDECOM, France); Paul Muhlethaler (INRIA, France)

### **SS5: SPECIAL SESSION ON ENVIRONMENTAL ELECTROMAGNETIC COMPATIBILITY (EEMC)**

1570655314	Assessment of SAR in a Simplified Body Model due to Hertz Dipole Exposure	Anna Susnjara and Dragan Poljak (University of Split, Croatia)
1570652674	Assessment of Transmitted Power Density due to Hertz Dipole Radiation using the Modified Image Theory Approach	Dragan Poljak (University of Split, Croatia); Vicko Doric (University of Split, FESB, Croatia)
1570655320	Numerical Solution of the Schrödinger Equation Using a Neural Network Approach	Ante Lojić Kapetanović and Dragan Poljak (University of Split, Croatia)
1570649501	Frequency Reconfigurable Multiband Planar Antenna For Multistandard Communications	Saber Dakhli (Innov'Com Laboratory, SUPCOM, University of Carthage Tunis, Tunisia); Moheddine Smari (Innov'Com Laboratory, Supcom, University of Carthage, Tunisia); Jean-marie Floch (IETR-INSA Rennes, France); F. Choubani (SUP'COM, Tunisia)
1570649507	Compact and Frequency-Reconfigurable Printed Antenna for Heterogeneous Wireless Systems	Saber Dakhli (Innov'Com Laboratory, SUPCOM, University of Carthage Tunis, Tunisia); Moheddine Smari (Innov'Com Laboratory, Supcom, University of Carthage, Tunisia); Jean-marie Floch (IETR-INSA Rennes, France); F. Choubani (SUP'COM, Tunisia)



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

1570649534	Integrating an IoT Application Middleware with a Fog and Edge Computing Simulator	Fernanda Famá, Danilo F S Santos and Angelo Perkusich (Federal University of Campina Grande, Brazil)
1570650272	Optimal Time Slot Allocation for Communicating Things Using Local Clocks	Michael Mahamat (Université de Technologie de Compiègne, France); Hicham Lakhlef (Heudiasyc, University of Technology of Compiègne, France); Ahmed Lounis (University de Technology de Compiègne, France); Imine Youcef (University de Technologie de Compiègne, France)
1570655273	Data classification in Internet of things for smart objects framework	Adil Chekati (University of Tunis El Manar, Tunisia); Meriem Riahi (ENSIT, University of Tunis, Tunisia); Faouzi Moussa (Faculty of Sciences of Tunis, Tunisia)
1570654967	Performance Evaluation of Collision Avoidance Techniques using Wake-Up Radio in WSNs	Mayssa Ghribi (National Engineering School of Tunis, University of Tunis-El Manar, Tunisia); Aref Meddeb (National Engineering School of Sousse, University of Sousse, Tunisia)

## SS7: SPECIAL SESSION ON ADVANCES IN MACHINE LEARNING FOR BUSINESS AND FINANCE

	Machine Learning and Cryptocurrency Markets	Nino Antulov-Fantulin (ETH Zurich)
1570646482	Efficient Conversion Prediction in E-Commerce Applications with Unsupervised Learning	Peter Szabo and Bela Genge (University of Medicine, Pharmacy, Science and Technology of Targu Mures, Romania)
1570653008	Estimating the number of latent factors in high-dimensional financial time series	Vanessa Keranović, Stjepan Begušić and Zvonko Kostanjčar (University of Zagreb, Croatia)

## SS8: SPECIAL SESSION ON GREEN NETWORKING AND COMPUTING

1570648813	EAGP: An Energy-Aware Gossip Protocol for Wireless Sensor Networks	Bruno Chianca Ferreira (Institut National des Sciences Appliquées & Ecole Nationale de l'Aviation Civile, France); Vítor Francisco Fonte (UNU-EGOV & Universidade do Minho, Portugal); João Marco C. Silva (HASLab, INESC TEC & Universidade do Minho, Portugal)
1570655316	Analyses of user density impact on energy-efficiency metrics in 5G networks	Josip Lorincz, Zvonimir Klarin, Dinko Begusic (University of Split, Croatia)

## SYM1/I: SYMPOSIUM ON ROBOTIC AND ICT ASSISTED WELLBEING

1570646125	Software application for topology optimization of a link from a 3D printed educational robot	Ivan Chavdarov (Institut of Robitics, Bulgarian Academy of Sciences & Sofia University "St. Kliment Ohridski", FMI, Bulgaria); Bozhidar Naydenov (Dassault Systemes & Institut of Robitics, Bulgarian Academy of Sciences, Bulgaria)
1570646760	Basic Characteristics of Handheld robotized systems in orthopedic surgery	George Boiadjiev (University of Sofia "St. Kliment Ohridski", Bulgaria); Tony Boiadjiev (IICT, Bulgarian Academy of Sciences, Bulgaria); Kamen Delchev (Sofia University, Bulgaria); Rumen Kastelov (Centre of Ministry of Interior, Bulgaria); Ivan Chavdarov (Institut of Robitics, Bulgarian Academy of Sciences & Sofia University "St. Kliment Ohridski", FMI, Bulgaria)
1570648788	Deep Semantic Image Segmentation for UAV-UGV Cooperative Path Planning: A Car Park Use Case	Mirela Kundid Vasić (University of Mostar & Faculty of Mechanical Engineering and Computing, Bosnia and Herzegovina); Ahmad Drak (Hochschule Bonn-Rhein-Sieg, Germany); Nediljko Bugarin, Stanko Kruzic and Josip Music (University of Split, Croatia); Christoph Pomrehn and Maximilian Schöbel (Hochschule Bonn-Rhein-Sieg, Germany); Maximilian Johenneken (Bonn-Rhein-Sieg University of Applied Sciences, Germany); Ivo Stancic and Vladan Papic (University of Split, Croatia); Rainer Herpers (Bonn-Rhein-Sieg University of Applied Sciences, Germany)
1570648896	Forward Kinematic Analysis of JACO2 Robotic Arm Towards Implementing a Grapes Harvesting Robot	Theodore P Pachidis (Eastern Macedonia and Thrace Institute of Technology Kavala, Greece); Christos Sgouros (International Hellenic University (IHU), Greece); Vasileios Kaburlasos (Technological Educational Institute of Eastern Macedonia and Thrace, Greece); Eleni Vrochidou (International Hellenic University (IHU), Greece); Theofanis Kalampokas and Konstantinos Tziridis (Eastern Macedonia and Thrace Institute of Technology, Greece); Alexander Nicolaou and George A Papakostas (International Hellenic University, Greece)
1570649077	Dynamics of a Planar Redundant Robot Based on Energy Conservation Law and Graph Theory	George Boiadjiev (University of Sofia "St. Kliment Ohridski", Bulgaria); Ivan Chavdarov (Institut of Robitics, Bulgarian Academy of Sciences & Sofia University

		"St. Kliment Ohridski", FMI, Bulgaria); Lyubomira Miteva (Sofia University, Bulgaria)
1570649146	Damage Analysis of Grassland from Aerial Images Applying Convolutional Neural Networks	Maximilian Johenneken (Bonn-Rhein-Sieg University of Applied Sciences, Germany); Ahmad Drak (Hochschule Bonn-Rhein-Sieg, Germany); Rainer Herpers (Bonn-Rhein-Sieg University of Applied Sciences, Germany)
1570649446	Trajectory Planning for Redundant Robotic Manipulators with Constrained Joint Space	Lyubomira Miteva (Sofia University, Bulgaria); Ivan Chavdarov (Institut of Robotics, Bulgarian Academy of Sciences & Sofia University "St. Kliment Ohridski", FMI, Bulgaria); Kaloyan M Yovchev (Sofia University, Bulgaria)
1570649604	Robot-Assisted Autism Spectrum Disorder (ASD) Interventions: A Multi-Robot Approach	Chris Lytridis, Cristina I. Papadopoulou and George A Papakostas (International Hellenic University, Greece); Vassilis Kaburlasos (Kavala Institute of Technology, Greece); Vasiliki Alikei Nikopoulou and Maria Dialehti Kerasidou (Papageorgiou General Hospital, Greece); Nikolaos Dalivigkas (Euroaction, Greece)
1570649606	Head Pose Estimation Using Lattice Computing Techniques	Vassilis Kaburlasos (Kavala Institute of Technology, Greece); Chris Lytridis, Christos Bazinas, Stamatis Chatzistamatis and Kalliopi Sotiropoulou (International Hellenic University, Greece); Aouatif Najoua (ENSET, University Hassan II, Greece); Youssfi Mohamed (Labo SSDIA, ENSET Mohammedia, Morocco); Omar Bouattane (ENSET Hassan II University of Casablanca, Morocco)

## P1: POSTERS / ABSTRACTS SESSION

1570658507	A 4G/5G Packet Core as VNF with Open Source MANO and OpenAirInterface	Thomas Dreibholz (Simula Metropolitan Centre for Digital Engineering, Norway)
1570653286	Pedestrian Motion Detection & Pedestrian Communication (P2I &V2P)	Muhammad Naeem Tahir (Finnish Meteorological Institute (FMI) & University of Oulu, Center of Wireless Communication, Finland); Kari Mäenpää (Finnish Meteorological Institute, Finland); Marjo Hippo (Research Scientist, Finland)
1570651977	OFDM Multi-Numerology for Future 5G New Radio Communication Systems	Gordana Raluca Barb (Politehnica University of Timisoara, Romania); Marius Ottesteanu (Universitatea

		Politehnica Timisoara, Romania); Florin Alexa (Politehnica University Timisoara, Romania); Flavius Danuti (Politehnica University of Timisoara, Romania)
1570651803	Assessment of SAR using Simplified Body Representation due to RFID Field Exposure	Enida Cero Dinarević (FESB, Bosnia and Herzegovina); Dragan Poljak and Zoran Blažević (University of Split, Croatia)
1570658627	Genetic algorithm parametrization for informed exploration of short peptides chemical space	Erik Otović, Marko Njirjak and Ivana Žužić (University of Rijeka, Faculty of Engineering, Croatia); Daniela Kalafatovic (University of Rijeka & University of Rijeka, Center for Artificial Intelligence and Cybersecurity, Croatia); Goran Mause (University of Rijeka, Faculty of Engineering & University of Rijeka, Center for Artificial Intelligence and Cybersecurity, Croatia)

### WICT: Workshop on Information and Communication Technologies

1570648641	5G Mobile Technologies and Early 6G Viewpoints	Ivan Petrov (Makedonski Telekom, Macedonia, the former Yugoslav Republic of); Toni Janevski (Ss. Cyril and Methodius University in Skopje, Macedonia, the former Yugoslav Republic of)
1570657802	PA's Data Center Management: Billing and Services Monitoring System	Enrica Salbaroli (Lepida SpA, Italy); Gianluca Mazzini (University of Ferrara and LepidaSpA, Italy)
1570646166	Algorithms for graph isomorphism. A comparative study on STwig and VF2	Gheorghica Radu-Iulian (Babeş-Bolyai University & Faculty of Mathematics and Computer Science, Romania)
1570649489	Modeling Cassandra Data Structure and Queries Using a Graph Based Knowledge Representation	Camelia Florina Andor (Babes-Bolyai University, Romania); Viorica Varga (Babes Bolyai University, Romania); Christian Săcărea (Babeş-Bolyai University, Romania)
1570653010	Conceptual Graphs for NoSQL Performance Benchmarking	Camelia Florina Andor and Adrian Telcian (Babes-Bolyai University, Romania); Christian Săcărea (Babeş-Bolyai University, Romania)
1570654655	Influence of UV radiation on shielding efficiency of conductive textile materials	Krešimir Malarić and Valentina Marinčević Petračić (University of Zagreb, Faculty of Electrical Engineering and Computing, Croatia); Bosiljka Šaravanja (University of Zagreb, Faculty of Textile Technology, Croatia); Damir Muha (University of Zagreb, Croatia); Tanja

		Pušić (University of Zagreb, Faculty of Textile Technology, Croatia)
1570658404	Epics Implementation for active magnetic field control	Donny Cosic (University of Split & Ruđer Bošković Institute, Croatia); Joško Radić and Mladen Russo (University of Split, Croatia)
1570654674	Safety Means with Functions of Blockchain in Multi-layered Architecture of IoT for Safer Data Transmission Procedures	Raimundas Savukynas (Mr., Lithuania)