Conference Programme
Thursday, 10.09.2020

Session ICTF I, chair: Dragana Krstic
9:00 - 9:40 Invited speaker: Abdel-Badeeh M. Salem, Information Mining and Knowledge Discovery in Smart Healthcare Systems: Techniques and Challenges
9:40 - 10:00 Marek Michalski, FPGA chips as a hardware simulator for multiplane log 2 N switching fabrics
10:00 - 10:20 Eleonora Brtka, Igor Vecštejn, Vladimir Brtka, Vesna Makitan and Ivana Berkovic, Mobile technologies and programming in terms of the continuity principle in school and university education
10:20 - 10:40 Alhasan Alkuhlani, Walaa Gad, Mohamed Roushdy and Abdel-Badeeh M. Salem, Artificial Intelligence for Glycation Site Prediction

Session ICTF II, chair: Nenad Milosevic
12:00 - 12:20 Muneer Bani Yassein, Ismail Hmeidi, Omar Meqdadi, Dragana Krstić and Maram Gharibeh, Performance Analysis of Minimum Rank with Hysteresis Objective Function for Internet of Things
12:20 - 12:40 Muneer Bani Yassein, Muntaha Al-Asa’d and Dragana Krstić, Optimized Dynamic Trickle Algorithm for Low Power and Lossy Networks
12:40 - 13:00 Peter Mandl, Pirmin Pezzei and Erich Leitgeb, Comparison of Different Exposure Situations to RF Radiation regarding Mobile Communications with Respect to 5G

Session ICTF III, chair: Nenad Cvetkovic
15:00 - 15:20 Milan Stork and Jaroslav Novak, Characteristic of Some Physiological Parameters Based on Bicycle and Treadmill Exercise Testing
15:20 - 15:40 Vassil Guliashki and Galia Marinova, Optimization approach for improvement of energy efficiency of buildings in a microgrid
15:40 - 16:00 Milan Stork, Simple Amplitude Control and Frequency Correction of Recursive Sine Wave Digital Oscillators
16:00 - 16:20 Michael Vorderderfler, Michael Gadinger, Wolfgang Bösch and Erich Leitgeb, Absorber Characterisation for Over-the-Air Radar Target Stimulation on Automotive Test Rigs
16:20 - 16:40 Pasha Bekhrad and Erich Leitgeb, Evaluation of the refractive index structure constant profile
16:40 - 17:00 Dejan Jovanovic, Dragana Jovanovic and Nenad Cvetkovic, Ring Grounding Electrode and Coaxial Vertical Cylindrical Ground Non-homogeneity
Session ICTF IV, chair: Aleksandra Panajotovic

9:00 - 9:20  Yuki Furuya, Hiromu Asahina, Masashi Yoshida and Iwao Sasase, Indoor Crowd Estimation Scheme Using the Number of Wi-Fi Probe Requests under MAC Address Randomization

9:20 - 9:40  Dejan Milić, Nenad Petrović, Stefan Panić, Suad Suljović and Samir Koničanin, GPU-Enabled Simulation of Average Bit Error Probability of Macro Diversity System in Gamma Shadowed Rayleigh Fading Channel

9:40 - 10:00  Lea Dujić Rodić, Toni Perkovic, Tomislav Županović and Petar Šolić, Markov Model as Approach to Parking Space Occupancy Prediction

10:00 - 10:20  David Veit, Michael Vorderderfler, Michael Gadringer and Erich Leitgeb, Consistent Scaling for the Inverse Chirp Z Transformation

10:20 - 10:40  Srdan Lazendic, Hendrik De Bie and Aleksandra Pizurica, On Extending the ADMM Algorithm to the Quaternion Algebra Setting

10:40 - 11:00  Dragana Krstić, Selena Vasic, Suad Suljovic and Elmedin Biberovic, Performance of Macrodiversity System with Selection Combining and Two Microdiversity MRC Receivers in the Presence of k-µ Fading

Session ICTF V, chair: Stevica Cvetickovic

12:00 - 12:20  Izumi Ito and Aleksandra Pizurica, Fast Full Search Equivalent Block Matching for Multichannel Images

12:20 - 12:40  Mona A.Ahmed and Abdel-Badeeh M. Salem, Intelligent Technique for Human Authentication using Palm Vein

12:40 - 13:00  Razan Bayoumi, Marco Alfonse and Abdel-Badeeh M. Salem, Multi-Modal Conditional Image Generation a Comparative Study

13:00 - 13:20  Nina Žižakić and Aleksandra Pižurica, Invertible Local Image Descriptors Learned with Variational Autoencoders


13:40 - 14:00  Nermin Siphocly, El-Sayed El-Horbaty and Abdel-Badeeh Salem, Intelligent System based on Deep Learning Technique for Accompaniment Music Generation

14:00 - 14:20  Hossam El-Din M. Abd Elhamid, Wael Khalifa, Mohamed Roushdy and Abdel-Badeeh M. Salem, Computational Intelligence for Financial Fraud Detection under Internet of Things Environment: Techniques, Opportunities and Challenges