Monday, 15\textsuperscript{th} June, 2020

Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00–10:15</td>
<td>1A</td>
<td>Opening Ceremony and Welcome</td>
</tr>
<tr>
<td>10:15–11:00</td>
<td>2A</td>
<td>Invited Speaker Iñigo Cuiñas</td>
</tr>
<tr>
<td>11:00–11:45</td>
<td></td>
<td>TECHNICAL BREAK</td>
</tr>
<tr>
<td>11:45–12:30</td>
<td>3A</td>
<td>Invited Speaker Antanas Verikas</td>
</tr>
<tr>
<td>12:30–13:30</td>
<td></td>
<td>TECHNICAL BREAK</td>
</tr>
<tr>
<td>13:30–15:00</td>
<td>4A</td>
<td>Electronics</td>
</tr>
<tr>
<td>15:00–15:30</td>
<td></td>
<td>TECHNICAL BREAK</td>
</tr>
<tr>
<td>15:30–17:00</td>
<td>5A</td>
<td>Electrical Engineering</td>
</tr>
</tbody>
</table>

Note: Time Zone – EEST
### Tuesday, 16th June, 2020

**Day 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Room A</th>
<th>Room B</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00–10:30</td>
<td>6A Telecommunications Engineering</td>
<td>1B Electrical Engineering</td>
</tr>
<tr>
<td>10:30–11:00</td>
<td>TECHNICAL BREAK</td>
<td></td>
</tr>
<tr>
<td>11:00–12:30</td>
<td>7A Electronic Measurements</td>
<td>2B System Engineering, Computer Technology</td>
</tr>
<tr>
<td>12:30–13:00</td>
<td>TECHNICAL BREAK</td>
<td></td>
</tr>
<tr>
<td>13:00–15:00</td>
<td>8A Automation, Robotics</td>
<td></td>
</tr>
<tr>
<td>15:00–15:30</td>
<td>TECHNICAL BREAK</td>
<td></td>
</tr>
<tr>
<td>15:30–17:00</td>
<td>9A Renewable Energy</td>
<td></td>
</tr>
</tbody>
</table>

Note: Time Zone – EEST
Wednesday, 17th June, 2020
Day 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>9:00–10:30</td>
<td>10A Telecommunications Engineering</td>
</tr>
<tr>
<td>10:30–11:00</td>
<td>TECHNICAL BREAK</td>
</tr>
<tr>
<td>11:00–12:30</td>
<td>11A Electronics</td>
</tr>
<tr>
<td>12:30–13:00</td>
<td>TECHNICAL BREAK</td>
</tr>
<tr>
<td>13:00–13:45</td>
<td>ELECTRONICS 2020 CLOSING SESSION</td>
</tr>
</tbody>
</table>

Note: Time Zone – EEST
The 24th **International Conference ELECTRONICS 2020** is taking place online due to pandemic. ELECTRONICS 2020 is organized by Kaunas University of Technology (Department of Electronics Engineering of Faculty of Electrical and Electronics Engineering).

Technical program consists of two *invited talks*, *technical papers live video presentations* in parallel sessions: Automation, Robotics and Control; Electrical Engineering; Electronic Measurements; Electronics; Renewable Energy; System Engineering, Computer Technologies; Telecommunications Engineering.

The accepted papers are published in the issues of the periodical scientific journal “Elektronika ir Elektrotechnika” and in the IEEE Conference Proceedings (ISBN 978-1-7281-5868-6). Scientific materials published in “Elektronika ir Elektrotechnika” (ISSN 1392-1215) are abstracted and indexed in: Clarivate Analytics Web of Science (formerly Thomson Reuters (ISI) Web of Knowledge) Citation Databases (SCIE, JCR, IF – 0,684 (2018)), SCOPUS (CiteScore – 0.804 (2018)), DOAJ, INSPEC (IET), VINITI, EBSCO.
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Győr, Hungary

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Łukasiewicz Research Network – Institute of Innovative Technologies
EMAG | Katowice, Poland

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Ocean University of China
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Instituto de Telecomunicações
Aveiro, Portugal

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Riga Technical university | Riga, Latvia

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Iasi, Romania

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Mons, Belgium

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Białystok, Poland

Assoc. Prof., Dr. Xin WANG
China Agricultural University
Beijing, China

Prof., Dr. Kazimierz WILKOSZ
Wrocław University of Science and Technology | Wrocław, Poland
Iñigo Cuiñas is a Professor at the Dept. of Signal Theory and Communications, and the Dean of the School of Telecommunication Engineering, Universidade de Vigo, Spain, where he teaches courses on Remote Sensing and the social links of Engineering. His main research interest focuses on radio wave propagation in complex environments, as vegetation media; environmental aspects of radiofrequency systems, as the development of techniques to reduce the electromagnetic pollution; as well as information security at physical level. Prof. Cuiñas has authored or co-authored more than 80 papers in JCR-ranked journals and 110 contributions to international conferences.

Cybersecurity is a must in current Information Society research and professional development. This issue mostly focus on activities at very high level (session, presentation or application). The lowest layer within OSI model, the Physical one, is commonly “the ugly duckling” among the rest in terms of Cybersecurity interest. In parallel, more and more wireless communication systems are deployed providing a collection of services that deserve a moment to think on security. Obviously, if the hacker is not within the coverage of the radio system, it is not possible for him to access the information. Then, proposals that allow something like controlling the radio coverage range of a wireless system would act as a defense against malicious accesses. This fact opens a world of solutions that involves hard walls, vegetation fences and frequency selective surface, from those very primitive to the more sophisticated solutions. Results from our experimental research are presented along this talk, combined with the effect on the cybersecurity application.
Antanas Verikas was awarded a PhD degree in pattern recognition from Kaunas University of Technology, where he currently holds a professor position. For more than 25 years he has conducted research at Halmstad University Sweden and led the Department of Intelligent Systems. His research interests include machine learning, deep learning, computer vision, pattern recognition, classification, information fusion, fuzzy logic, and visual media technology. He published more than 200 peer reviewed articles in international journals and conference proceedings and served as conference chair, invited speaker and program committee member in numerous international conferences.

Bicycling and golf are two kinds of sports considered in this work. Golf shot effectiveness, expressed in terms of club head speed or ball carry distance, and a blood lactate concentration level and oxygen uptake rate are parameters used to assess performance of golfers and bicyclists in this work. Predicting the performance parameters using information extracted from multi-channel surface electromyography (sEMG) signals recorded from relevant body muscles is the main aim of this work. Surface EMG data enable wearable computing in the field of ambient intelligence and has potential to enhance exercising of a long carry distance shot. We argue that muscle coordination patterns change during fatiguing cycling exercises and these changes provide important information for tracking two important physiological parameters, blood lactate concentration level and oxygen uptake rate. The investigations have also shown that the canonical correlation analysis is a promising tool for studying relations between sEMG and biomechanical data. Better understanding of these relations may lead to guidelines concerning muscle engagement and coordination of thorax, pelvis and arms during a golf swing and will help golf coaches in providing substantiated advices.
Information for Participants

**Time Zone**

The time zone for all Sessions is set to EEST (Eastern European Summer Time) i.e. UTC+03:00.

**Language**

The official language of the ELECTRONICS 2020 Conference is English.

**Entrance**

To the Conference Video Rooms:

Each presenter will receive a link for entry to the particular Conference Video Room.

Each Session will be opened 15 minutes prior to the starting time to clarify technical issues.

Each Session will be moderated by a particular Session Chair.

Invited paper:
45 minutes, including discussion.

Contributed oral papers:
15 minutes, including discussion.

**Live Broadcast**

The presentations of sessions in Room A and Room B will be broadcasted live via Youtube and will be made available at Conference website for everyone (http://electronicsconf.ktu.edu).

**Messages**

Please check the Conference website from time to time for possible changes to the program and for other announcements.
### Monday, 15th June, 2020

**ROOM A**

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<tr>
<th>Time</th>
<th>Session</th>
<th>Chairs</th>
<th>Invited Speaker</th>
<th>Presentation</th>
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<tr>
<td>10:00</td>
<td><strong>SESSION 1A</strong></td>
<td>Algimantas Valinevicius, Darius Andriukaitis</td>
<td>Iñigo Cuiñas (Spain)</td>
<td>An Introduction to Cybersecurity at Physical Layer: Obstacles at Radio Channel to Mitigate Hackers Chance</td>
</tr>
<tr>
<td>10:15</td>
<td>OPENING CEREMONY AND WELCOME</td>
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<tr>
<td>10:15</td>
<td><strong>SESSION 2A</strong></td>
<td>Algimantas Valinevicius, Darius Andriukaitis, Dangirutis Navikas</td>
<td>Antanas Verikas (Lithuania)</td>
<td>Data Mining-based Prediction of Athletic Performance</td>
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<tr>
<td>11:00</td>
<td>Technical Break</td>
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<tr>
<td>11:45</td>
<td><strong>SESSION 3A</strong></td>
<td>Algimantas Valinevicius, Darius Andriukaitis, Dangirutis Navikas</td>
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<tr>
<td>12:30</td>
<td>Technical Break</td>
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<tr>
<td>13:30</td>
<td>**SESSION 4A</td>
<td>ELECTRONICS**</td>
<td>Dangirutis Navikas (Lithuania)</td>
<td></td>
</tr>
<tr>
<td>15:00</td>
<td>4A.1. Integer- and Fractional-Order VCO Using Non-Inertial Amplitude Stabilization and Modern Active Elements</td>
<td>Roman Sotner, Jiri Petzela, Jan Jerabek, Lukas Langhammer, Josef Polak, Winai Jaikla, Sunti Tuntrakool (Czech Republic, Thailand)</td>
<td>Presenter: Roman Sotner (Czech Republic)</td>
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<tr>
<td></td>
<td>4A.2. Hardware Acceleration of Sparse Support Vector Machines for Edge Computing</td>
<td>Vuk Vranjkovic, Rastislav Struharik (Serbia)</td>
<td>Presenter: Vuk Vranjkovic (Serbia)</td>
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</tbody>
</table>
13:30  
**4A.3.** Research of Indirect Method of Measuring the Pulse Generator Output Resistance by the Step Recovery Diode  
Presenter: Vladimir Aristov (Latvia)

15:00  
**4A.4.** Energy Harvesting Plant Sensor Powered by Grow Light Panel with Variable Wavelength  
Presenter: Michal Prauzek (Czech Republic)

**4A.5.** Performance Optimisation of Accelerated Tests  
Presenter: Vandana Narri (Sweden)

**4A.6.** NFC2BLE Communications’ Bridge: from Flash to Continuous Monitoring of Biological Parameters  
Presenter: Jose Maria Vicente Samper (Spain)

15:00–15:30  TECHNICAL BREAK

15:30  
**SESSION 5A | ELECTRICAL ENGINEERING**  
Chair: Saulius Gudzius (Lithuania)

17:00  
**5A.1.** Exposure of Underground Cable Intrusion Detection System to Transient Disturbances Caused by Nearby Lightning Strikes  
Presenter: Renata Markowska (Poland)

**5A.2.** Electro-Thermal Modelling and Experimental Verification of Power Semiconductor Diode  
Presenter: Michal Frivaldska (Slovakia)

**5A.3.** Design of High-Power Energy Storage Bidirectional Power Conversion System  
Presenter: Xingkui Mao (China)
15:30  

5A.4. **Modelling Corona Discharge Characteristic in Electricity Transmission Lines for Fault Detection System**  
Vaidotas Marusauskas, Saulius Gudzius, Audrius Jonaitis, Jonas Vaicys, Tomas Merfeldas, Alfonsas Morkvenas (Lithuania)  
*Presenter: Vaidotas Marušauskas (Lithuania)*

5A.5. **Mathematical Modelling and Control of Hybrid Sources for Application in Electric Vehicles**  
Nikolay Hinov, Vladimir Dimitrov, Gergana Vacheva (Bulgaria)  
*Presenter: Nikolay Hinov (Bulgaria)*

5A.6. **A Novel Single Phase Modified Quasi-Z-Source Inverter Circuit Design and Analysis**  
Mustafa Sacid Endiz, Ramazan Akkaya (Turkey)  
*Presenter: Mustafa Sacid Endiz (Turkey)*
Tuesday, 16th June, 2020

SESSION 6A | TELECOMMUNICATIONS ENGINEERING
Chair: Alberto Rodríguez (Spain)

6A.1. Improved Hybrid Precoder Design for Secure mmWave MIMO Communications
Yasin Kabalci, Muhammad Ali (Turkey)
Presenter: Muhammad Ali (Turkey)

6A.2. Multiparty Call Control at the Network Edge
Ivaylo I. Atanasov, Evelina N. Pencheva, Denitsa L. Velkova, Ivaylo P. Asenov (Bulgaria)
Presenter: Evelina Nikolova Pencheva (Bulgaria)

6A.3. Telecommunications System and Aeronautical Telemetry System in the 1429-1518 MHz Frequency Band
Sarunas Oberauskas, Vidas Kalesinskas, Mindaugas Zilinskas, Evaldas Stankevicius (Lithuania)
Presenter: Evaldas Stankevicius (Lithuania)

Pedro Juan Roig, Salvador Alcaraz, Katja Gilly, Carlos Juiz (Spain)
Presenter: Pedro Juan Roig (Spain)

Oleksii Borysenko, Svitlana Matsenko, Sandis Spolitis, Vjaceslavs Bobrovs (Latvia)
Presenter: Svitlana Matsenko (Latvia)

6A.6. Enabling Wireless Power Transfer and Multiple Antennas Selection to IoT Network Relying NOMA
Si-Phu Le, Minh-Sang Van Nguyen, Dinh-Thuan Do, Hong-Nhu Nguyen, Ngoc-Long Nguyen, Nhat-Tien Nguyen, Miroslav Voznak (Vietnam, Czech Republic)
Presenter: Nhu Hong Nguyen (Vietnam)
9:00  
6A.7. **Supervised Machine Learning Based Classification of Video Traffic Types**
   Elans Grabs, Ernests Petersons, Aleksandrs Ipatovs, Dmitrijs Chulkovs (Latvia)
   Presenter: Elans Grabs (Latvia)

10:30–11:00 TECHNICAL BREAK

11:00  
SESSION 7A | ELECTRONIC MEASUREMENTS
- Chair: Michal Frivaldsky (Slovakia)

12:30  
7A.1. **Reliable Low-Cost Air Quality Monitoring Using Off-the-Shelf Sensors and Statistical Calibration**
   Dejan D. Drajic, Nenad R. Gligoric (Serbia)
   Presenter: Dejan D. Drajic (Serbia)

7A.2. **A Development of a Capacitive Voltage Divider for High Voltage Measurement as Part of a Combined Current and Voltage Sensor**
   Roman Hrbac, Vaclav Kolar, Mikolaj Bartlomiejczyk, Tomas Mlcak, Petr Orsag, Jakub Vanc (Czech Republic)
   Presenter: Vaclav Kolar (Czech Republic)

7A.3. **A Lossy Capacitance Measurement Circuit Based-on Analog Lock-in Detection**
   Mehmet Demirtas, Mehmet Akif Erismis, Salih Gunes (Turkey)
   Presenter: Mehmet Demirtas (Turkey)

7A.4. **Gunshot Detection Using Convolutional Neural Networks**
   Jakub Bajzik, Jiri Prinosil, Dusan Koniar (Slovakia)
   Presenter: Jakub Bajzik (Slovakia)

7A.5. **Time Series Prediction for Amount of Airworthiness Based on Time-Delay Neural Networks**
   Ali Tatli, Sinem Kahvecioglu, Hikmet Karakoc (Turkey)
   Presenter: Ali Tatli (Turkey)

7A.6. **Electronics Upgrade of Cyclic Loading Test Machines for Automotive Production**
   Juraj Pancik, Peter Drgona, Marek Paskala (Slovakia)
   Presenter: Juraj Pancik (Slovakia)
11:00 7A.7 Non-Linear Load Characterisation Using Orthogonal Apparent Power Decompositions

Marko A. Dimitrijevic, Dejan Stevanovic, Vanco B. Litovski (Serbia)
Presenter: Marko A. Dimitrijevic (Serbia)

12:30–13:30 TECHNICAL BREAK

13:30 SESSION 8A | AUTOMATION, ROBOTICS

Chair: Wlodek J. Kulesza (Sweden)

15:00

8A.1 A Distributed Computing Real-Time Safety System of Collaborative Robot
Dawid Gradolewski, Dawid Maslowski, Damian Dziak, Bartosz Jachimczyk, SivaTeja Mundlamuri, Chandran G. Prakash, Wlodek J. Kulesza (Sweden, Poland)
Presenter: Dawid Gradolewski (Sweden)

8A.2 Optimization of Threshing Quality Control Strategy Based on Type-2 Fuzzy Logic Controller
Baoyan Xu, Xindong Ni, Yuan Wang, Yuxiang Wang, Yehong Liu, Xin Wang (China)
Presenter: Xin Wang (China)

8A.3 Fuzzy Expert System for Earthquake Prediction in Western Himalayan Range
Rabia Tehseen, Muhammad Shoaib Farooq, Adnan Abid (Pakistan)
Presenter: Muhammad Shoaib Farooq (Pakistan)

8A.4 State Estimation with Reduced Order Observer and Adaptive-LQR Control of Time Varying Linear System
Omer Aydogdu, Mehmet Latif Levent (Turkey)
Presenter: Mehmet Latif Levent (Turkey)

8A.5 Mathematical Model and Analysis of the Crushing Rate of Combine Harvester
Dong Sun, Yuxiang Wang, Baoyan Xu, Yining Fu, Qihang Hou, Xin Wang (China)
Presenter: Xin Wang (China)

8A.6 Fuzzy Logic and Webster’s Optimal Cycle Based Decentralized Coordinated Adaptive Traffic Control Method
Muzamil Eltejani Mohammed Ali, Akif Durdu, Seyit Alperen Celtek, Seyfettin Sinan Gultekin (Turkey)
Presenter: Muzamil Eltejani Mohammed Ali (Turkey)
15:00–15:30 TECHNICAL BREAK

15:30

SESSION 9A | RENEWABLE ENERGY

Chair: Jaromír Hrad (Czech Republic)

9A.1. A New Protection Philosophy for Smart Distribution Network
Abdulfetah Shobole, Mustafa Baysal, Mohammed Wadi, Mehmet Rida Tur (Turkey)
Presenter: Abdulfetah Abdela Shobole (Turkey)

9A.2. Evaluation of Wind Energy Accommodation Based on Two-Stage Robust Optimization
Kunpeng Tian, Weiqing Sun, Dong Han, Ce Yang (China)
Presenter: Kunpeng Tian (China)

Emre Hasan Dursun, Ahmet Afsin Kulaksiz (Turkey)
Presenter: Emre Hasan Dursun (Turkey)

9A.4. Direct and Indirect MXC Supplying Active and Passive 5ph-Load System
Branislav Dobrucky, Slavomir Kascak, Michal Prazenica, Patrik Resutik (Slovakia)
Presenter: Branislav Dobrucky (Slovakia)

9A.5. Single Conversion Stage Three Port High Gain Converter for PV Integration with DC Microgrid
Muhammad Arif, Mohsin Shahzad, Jawad Saleem, Waheed Malik, Abdul Majid (Pakistan)
Presenter: Muhammad Arif (Pakistan)

9A.6. A Novel Pre-Synchronization Control for Grid Connection of Virtual Synchronous Generator
Xuhai Chen, Yiwang Zhang, Jiqing Dong, Xingkui Mao, Jiaqiao Chen, Buyin Wen, Zhe Zhang (China, Denmark)
Presenter: Xingkui Mao (China)

9A.7. Swarm Decomposition Technique Based Hybrid Model for Very Short-Term Solar PV Power Generation Forecast
Emrah Dokur (Turkey)
Presenter: Emrah Dokur (Turkey)
Tuesday, 16th June, 2020

**SESSION 1B | ELECTRICAL ENGINEERING**

*Chair: Dardan Klimenta (Serbia)*

1B.1. **Combining DVR and UPS Techniques for an Uninterruptable Supply of Ultra-Sensitive Non-Linear Appliances**
Branislav Dobrucky, Jozef Sedo, Roman Konarik (Slovakia)
*Presenter: Branislav Dobrucky (Slovakia)*

1B.2. **Mathematical Model for Determination of Energy Cycles in EVs**
Nikolay Hinov, Gergana Vacheva, Bogdan Gilev (Bulgaria)
*Presenter: Nikolay Hinov (Bulgaria)*

1B.3. **Evaluation of GaN Power Transistor Switching Performance on Characteristics of Bidirectional DC-DC Converter**
Michal Frivaldsky, Jan Morgos, Richard Zelnik (Slovakia)
*Presenter: Michal Frivaldsky (Slovakia)*

1B.4. **Exploration Disaster Source of Mine Water by Electromagnetic Radiation**
Benyu Su, Zhixiong Li, Rongyao Li, Rongfu Rao, Jingcun Yu, Xihui Feng, Li Ma (China)
*Presenter: Benyu Su (China)*

1B.5. **Subjective and Objective Quality Evaluation Study of BPL-PLC Wired Medium**
Marcin Habrych, Grzegorz Debita, Przemyslaw Falkowski-Gilski, Bogdan Miedzinski, Bartosz Polnik, Jan Wandzio, Przemyslaw Jedlikowski (Poland)
*Presenter: Grzegorz Mieczyslaw Debita (Poland)*

1B.6. **MOSFET’s Gate Resistance Influence on Voltage Imbalance of Two-Switch Flyback Converter**
Michal Pipiska, Pavol Spanik, Jakub Cerveny (Slovakia)
*Presenter: Michal Pipiska (Slovakia)*

**10:30–11:00  TECHNICAL BREAK**
11:00  
SESSION 2B | SYSTEM ENGINEERING, COMPUTER TECHNOLOGY  

12:30  
Chair: Jevgenijus Toldinas (Lithuania)

2B.1. Graphic Library Optimization for MIPS Architecture  
Teodora Novkovic, Zeljko Lukac, Petar Jovanovic, Ivan Kastelan (Serbia)  
Presenter: Teodora Novkovic (Serbia)

2B.2. Resource Allocation Techniques in Cloud Computing: A Review and Future Directions  
Muhammad Faraz Manzoor, Adnan Abid, Muhammad Shoaib Farooq, Naeem A. Nawaz, Uzma Farooq (Pakistan, Kingdom of Saudi Arabia)  
Presenter: Muhammad Faraz Manzoor (Pakistan)

2B.3. Technical Threat Intelligence Analytics: What and How to Visualize for Analytic Process  
Robertas Damasevicius, Jevgenijus Toldinas, Algimantas Venckauskas, Sarunas Grigaliunas, Nerijus Morkevicius (Lithuania)  
Presenter: Jevgenijus Toldinas (Lithuania)

Radim Hercik, Zdenek Machacek, Jiri Koziorek, Jan Vanus, Miroslav Schneider, Wojciech Walendziuk (Czech Republic, Poland)  
Presenter: Zdenek Machacek (Czech Republic)

2B.5. Formal Algebraic Description of a Fog/IoT Computing Environment  
Salvador Alcaraz, Pedro Juan Roig, Katja Gilly, Sonja Filiposka, Noura Aknin (Spain, North Macedonia, Morocco)  
Presenter: Pedro Juan Roig (Spain)

Ridvan Yayla, Baha Sen (Turkey)  
Presenter: Ridvan Yayla (Turkey)

12:30–13:30  TECHNICAL BREAK
Wednesday, 17th June, 2020

ROOM A

9:00

SESSION 10A | TELECOMMUNICATIONS ENGINEERING
Chair: Bogdan Miedzinski (Poland)

10A.1. A Packet Delivery Cost Analysis of a Flow-Enabled ProxyNEMO Scheme in a Distributed Mobility Anchoring Environment
Shayla Islam, Mohammad Kamrul Hasan, Aisha Hassan Abdalla Hashim (Malaysia)
Presenter: Mohammad Kamrul Hasan (Malaysia)

10A.2. Comparison of Dispersion Compensation Techniques for Real-Time up to 160 Gbit/s DWDM C-Band Transmission
Toms Salgals, Andis Supe, Vjaceslavs Bobrovs, Jurgis Porins, Sandis Spolitis (Latvia)
Presenter: Toms Salgals (Latvia)

10A.3. Novel Composite Approximation for the Gaussian Q-Function
Zoran H. Peric, Aleksandar V. Markovic, Natasa Z. Kontrec, Stefan R. Panic, Petar C. Spalevic (Serbia)
Presenter: Stefan Panic (Serbia)

10A.4. MQTT Algebraic Formal Modelling Using ACP
Pedro Juan Roig, Salvador Alcaraz, Katja Gilly, Carlos Juiz, Noura Aknin (Spain)
Presenter: Pedro Juan Roig (Spain)

Romualds Belinskis, Nikolajs Bogdanovs, Aleksands Ipatovs, Ernests Petersons (Latvia)
Presenter: Nikolajs Bogdanovs (Latvia)

10A.6. Dental Amalgam Influence on the Amount of Absorbed Energy From Mobile Phone
Nenad N. Cvetkovic, Marko A. Dimitrijevic, Dejan B. Jovanovic, Dragana U. Zivaljevic, Dragan D. Krasic (Serbia)
Presenter: Nenad N. Cvetkovic (Serbia)

10:30–11:00 TECHNICAL BREAK
11:00

SESSION 11A | ELECTRONICS
Chair: Roman Sotner (Czech Republic)

12:30

11A.1. Dual-Mode Multifunctional Reconnection-Less Reconfigurable Filter
Lukas Langhammer, Roman Sotner, Jan Dvorak, Tomas Dostal (Czech Republic)
Presenter: Tomas Dostal (Czech Republic)

11A.2. AlGaNAs/InP Based Five & Three Quantum Wells Mode Locked Lasers Diodes: A Comparative Study
Jehan Akbar, Muhammad Haneef, Muhammad Azhar Naeem, Kamran Abid (Pakistan, Italy)
Presenter: Muhammad Azhar Naeem (Pakistan)

Dorde Novakovic, Platon Sovilj, Nikola Petrovic, Milan Milovanovic, Jaroslaw Makal, Wojciech Walendziuk (Serbia, Poland)
Presenter: Nikola Petrovic (Serbia)

11A.4. Small Motion Detection and Non-Contact Vital Signs Monitoring with Continuous Wave Doppler Radars
Ibrahim Seflek, Yunus Emre Acar, Ercan Yaldiz (Turkey)
Presenter: Ibrahim Seflek (Turkey)

11A.5. Implementation of an AFDX Interface with Zynq S.O.C. Board in FPGA
Fernando Molina, Pablo Corral, Miguel Aljaro, Guilermo De Scals, Alberto Rodríguez (Spain)
Presenter: Pablo Corral (Spain)

11A.6. A Fractional-Order Sliding Mode Controller Design for Trajectory Tracking Control of An Unmanned Aerial Vehicle
Kaan Can, Kamil Orman, Abdullah Basci, Adnan Derdiyok (Turkey)
Presenter: Kaan Can (Turkey)

11A.7. Comparison of MEMS and FOG Gyroscopes for Daily Use in Camera Stabilizing Systems
Dmitrijs Chulkovs, Elans Grabs, Aleksandrs Ipatovs (Latvia)
Presenter: Elans Grabs (Latvia)

12:30–13:30 TECHNICAL BREAK

13:30–13:45 ELECTRONICS 2020 CLOSING SESSION
Contacts

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