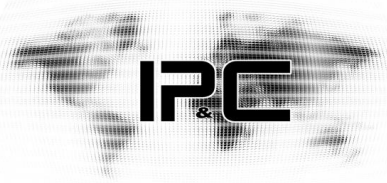


**Image Processing & Communications 2019**  
**Information and Communication Technology Forum 2019**  
**CONFERENCE PROGRAMME**

Wednesday 11/09/2019	
11.00 – 12.00	<i>Registration</i>
12.00 – 13.00	<i>Lunch</i>
13.00 – 13.10	<b>Opening / Welcome</b> <i>Michał Choraś, Maciej Piechowiak, Tomasz Marciniak</i>
	<b>Session: IMAGE PROCESSING and COMMUNICATIONS #1</b> Chair: Prof. Gian Luca Marcialis, University of Cagliari, Italy
13.10 – 13.30	<b>Presentation Attack Detection for Mobile Device-based Iris Recognition</b> <i>Ewelina Bartuzi, Mateusz Trokielewicz</i>
13.30 – 13.50	<b>Robustness of Haar feature-based Cascade Classifier for Face Detection under presence of image distortions</b> <i>Patryk Mazurek, Tomasz Hachaj</i>
13.50 – 14.10	<b>Eyes State Detection in Thermal Imaging</b> <i>Paweł Forczmański, Anton Smoliński</i>
14.10 – 14.30	<b>Towards mobile palmprint biometric system with the new palmprint database</b> <i>Agata Gielczyk, Karolina Dembińska, Michał Choraś, Rafał Kozik</i>
14.30 – 15.10	<b>INVITED Keynote</b> (Chair: Agata Gielczyk, UTP University of Science and Technology, Bydgoszcz, Poland) <i>Gian Luca Marcialis (University of Cagliari, Italy)</i>
	<b>Session: INFORMATION and COMMUNICATION TECHNOLOGY FORUM #1</b> Chair: Prof. Mariusz Głąbowski, Poznan University of Technology, Poland
15.10 – 15.40	<b>INVITED: V2X Communications for Platooning: Impact of Sensor Inaccuracy</b> <i>Michał Sybis, Paweł Sroka, Adrian Kliks, Paweł Kryszkiewicz</i>
15.40 – 16.00	<b>Learning Local Image Descriptors with Autoencoders</b> <i>Nina Zizakic, Izumi Ito, Aleksandra Pizurica</i>
16.00 – 16.20	<b>The Performance of Three-hop Wireless Relay Channel in the Presence of Rayleigh Fading</b> <i>Dragana Krstic, Petar Nikolic, Mihajlo Stefanovic</i>
16.20 – 16.40	<b>Traffic Feature-based Botnet Detection Scheme Emphasizing the Importance of Long Patterns</b> <i>Yichen An, Shuichiro Haruta, Sanghun Choi, Iwao Sasase</i>
16.40 – 17.00	<b>Classification of Multibeam Sonar Image Using the Weyl Transform</b> <i>Ting Zhao, Srdan Lazendic, Yuxin Zhao, Giacomo Montereale-Gavazzi, Aleksandra Pizurica</i>
17.00 – 17.30	<i>Coffee</i>
	<b>Session: INFORMATION and COMMUNICATION TECHNOLOGY FORUM #2</b> Chair: Prof. Ioannis D. Moscholios, Dept. of Informatics and Telecommunications, Univ. of Peloponnese, Greece
17.30 – 18.00	<b>INVITED: Enabling Smart Optical Communication Systems with Machine Learning</b> <i>Darko Zibar (Department of Photonics Engineering, Technical University of Denmark)</i>
18.00 – 18.20	<b>Performance Evaluation of the WSW1 Switching Fabric Architecture with Limited Resources</b> <i>Mustafa Abdulsahib, Wojciech Kabaciński, Marek Michalski</i>
18.20 – 18.40	<b>The analytical model of 5G</b> <i>Sławomir Hanczewski, Alla Horiushkina, Maciej Stasiak, Joanna Weissenberg</i>

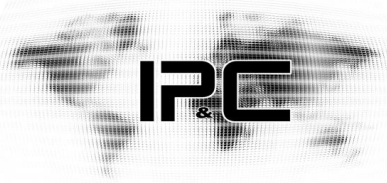


**Image Processing & Communications 2019**  
**Information and Communication Technology Forum 2019**  
**CONFERENCE PROGRAMME**

18.40 – 19.00	<b>The analytical model of complex non-full-availability system</b> <i>Sławomir Hanczewski, Maciej Stasiak, Michał Weissenberg</i>
20.00 –	<i>Bowling in the city centre</i>

**Thursday 12/09/2019**

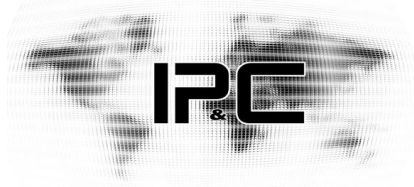
9.00 – 09.40	<b>INVITED</b> (Chair: Prof. ZUT, Krzysztof Okarma, West Pomeranian University of Technology, Szczecin, Poland) <b>Overview of Tensor Methods for Multi-Dimensional Signals Change Detection and Compression</b> <i>Bogusław Cyganek</i>	
	<b>Session: IMAGE PROCESSING and COMMUNICATIONS #2</b> Chair: Bogusław Cyganek, AGH University of Science and Technology, Kraków, Poland	
09.40 – 10.00	<b>Head motion – based robot’s controlling system using virtual reality glasses</b> <i>Tomasz Hachaj</i>	
10.00 – 10.20	<b>Remote heart rate monitoring using a multi-band camera</b> <i>Piotr Garbat, Agata Olszewska</i>	
10.20 – 10.40	<b>A Simplified Classification of Electronic Integrated Circuits Packages Based on Shape Descriptors</b> <i>Kamil Mailiński, Krzysztof Okarma</i>	
10.40 – 11.10	<i>Coffee</i>	
11.10 – 11.40	<b>INVITED: Some notes on INEA GPON and XGS-PON network</b> <i>Karol Kowalik (INEA S.A., Poznan, Poland)</i>	
	<b>Posters: IMAGE PROCESSING and COMMUNICATIONS</b> Chair: Prof. Michał Woźniak, Wrocław University of Science and Technology, Wrocław, Poland	<b>Posters: INFORMATION and COMMUNICATION TECHNOLOGY FORUM</b>
11.40 – 13.00	<b>Gaze-based interaction for VR environments</b> <i>Patryk Piotrowski, Adam Nowosielski</i> <b>Modified Score Function and Linear Weak Classifiers in LogitBoost Algorithm</b> <i>Robert Burduk, Wojciech Bożejko</i> <b>Color Normalization-based Nuclei Detection in Images of Hematoxylin and Eosin-Stained Multi Organ Tissues</b> <i>Adam Piórkowski</i> <b>Algorithm for finding minimal and quaziminimal st-cuts in graph</b> <i>Andrey Grishkevich</i> <b>The influence of the number of uses of the edges of a Reference Graph on the transmission properties of the network described by the graph</b> <i>Beata Marciniak, Sławomir Bujnowski, Tomasz Marciniak, Zbigniew Lutowski</i> <b>Imbalanced Data Classification Using Weighted Voting Ensemble</b> <i>Lin Lu, Michał Woźniak</i>	<b>Simulation Studies of a Complex Non-Full-Availability Systems</b> <i>Sławomir Hanczewski, Michał Weissenberg</i>  <b>Simulation Studies of Multicast Connections in Ad-Hoc Networks</b> <i>Maciej Piechowiak</i>  <b>Simulation Study of Routing Protocols for Wireless Mesh Networks</b> <i>Maciej Piechowiak, Piotr Owczarek, Piotr Zwierzykowski</i>  <b>Modelling of switching networks with multi-service sources and multicast connections in the last stage</b> <i>Maciej Sobieraj, Piotr Zwierzykowski, Maciej Stasiak</i>



**Image Processing & Communications 2019**  
**Information and Communication Technology Forum 2019**  
**CONFERENCE PROGRAMME**

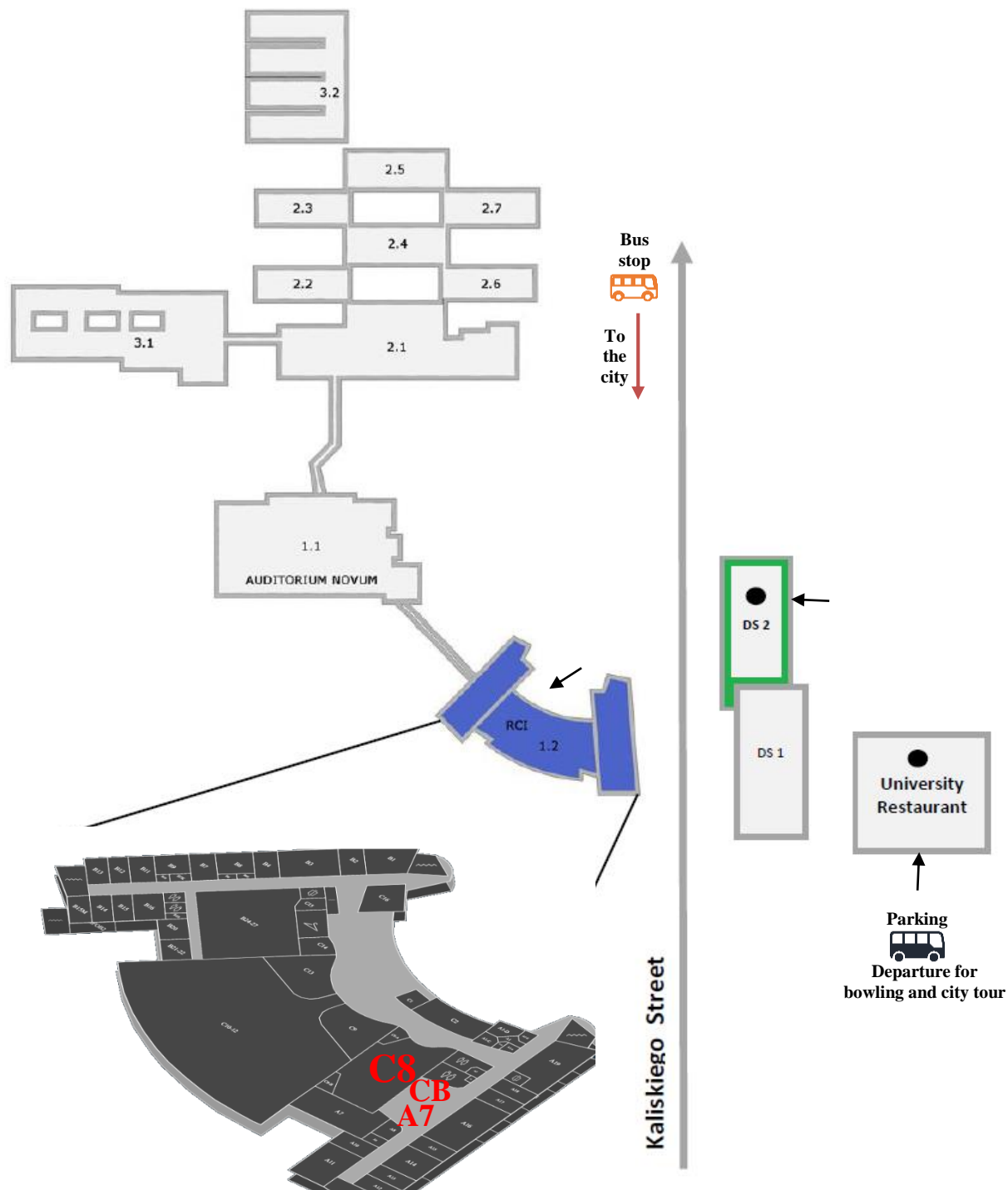
	<p><b>Evaluation of the MRI images marching using normalized mutual information method and preprocessing techniques</b>  <i>Paweł Bzowski, Damian Borys, Wiesław Guc, Rafał Obuchowicz, Adam Piórkowski</i></p> <p><b>Initial research on fruit classification methods using deep neural networks</b>  <i>Zbigniew Nasarzewski, Piotr Garbat</i></p> <p><b>3D Optical Reconstruction of Building Interiors for Game Development</b>  <i>Mariusz Szwoch, Dariusz Bartoszewski</i></p> <p><b>Impact of ICT infrastructure on the processing of large raster datasets</b>  <i>Paweł Kosydor, Ewa Warchala, Adam Piórkowski</i></p> <p><b>Gated Recurrent Units for Intrusion Detection</b>  <i>Marek Pawlicki, Adam Marchewka, Michał Choraś, Rafał Kozik</i></p> <p><b>Vision system for pit detection in cherries</b>  <i>Piotr Garbat, Piotr Sadura, Agata Olszewska, Piotr Maciejewski</i></p> <p><b>The impact of distortions on the image recognition with Histograms of Oriented Gradients</b>  <i>Andrzej Bukata, Michał Koziarski, Bogusław Cyganek, Osman Nuri Koç, Alperen Kara</i></p>	<p><b>AI-based analysis of selected gait parameters in post-stroke</b>  <i>Piotr Prokopowicz, Dariusz Mikołajewski, Krzysztof Tyburek, Emilia Mikołajewska, Piotr Kotlarz</i></p> <p><b>Traffic Modelling for Industrial Internet of Things (IIoT) Networks</b>  <i>Mariusz Głąbowski, Sławomir Hanczewski, Maciej Stasiak, Michał Weissenberg, Piotr Zwierzykowski, Vito Bai</i></p>
13:00 – 14.00	<i>Lunch</i>	
14:30 –	<i>Trip</i>	

<b>Friday 13/09/2019</b>	
10.00 – 10.40	<p><b>KEYNOTE: Opportunistic remote sensing of atmospheric parameters using satellite microwave links and benefits for satellite network operators</b>  <i>Franz Teschl (Graz University of Technology, Austria)</i></p>
10.40 – 11.00	<i>Coffee</i>
	<p><b>Session: INFORMATION and COMMUNICATION TECHNOLOGY FORUM #3</b>            Chair: Prof. Piotr Zwierzykowski, Poznan University of Technology, Poland</p>
11.00 – 11.20	<p><b>INVITED: Multirate Loss Models in LEO Mobile Satellite Systems</b>  <i>Ioannis D. Moscholios (Dept. of Informatics and Telecommunications, Univ. of Peloponnese, Greece)</i></p>
11.20 – 11.40	<p><b>Call-level Analysis of a Two-Link Multirate Loss Model with Restricted Accessibility</b>  <i>Irene Keramidi, Ioannis Moscholios, Panagiotis Sarigiannidis, Michael Logothetis</i></p>
11.40 – 12.00	<p><b>Performance Metrics in OFDM Wireless Networks under the Bandwidth Reservation Policy</b>  <i>Panagiotis Panagoulas, Ioannis Moscholios, Michael Logothetis</i></p>
12.00 – 12.20	<p><b>Model of a multiservice server with stream and elastic traffic</b>  <i>Sławomir Hanczewski, Maciej Stasiak, Joanna Weissenberg</i></p>
12.20 – 12.30	<b>Closing</b>
12.30 –	<i>Lunch (University Restaurant)</i>



**Image Processing & Communications 2019**  
**Information and Communication Technology Forum 2019**  
**CONFERENCE PROGRAMME**

**University Campus**



- DS 2 – Accommodation (University Hotel)
- C8 – Conference room, registration
- A 7 – Poster session
- CB – Coffee break
- University Restaurant – breakfast, lunch, dinner