

CISIM 2018

17th International Conference on Computer Information Systems and Industrial Management Applications

Olomouc, Czech Republic

September 27-29, 2018

<https://wi.pb.edu.pl/cisim2018/>

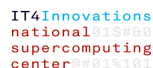
ORGANIZED BY



BIALYSTOK UNIVERSITY OF TECHNOLOGY



VŠB-TECHNICAL UNIVERSITY OF OSTRAVA



IT4INNOVATIONS



PALACKÝ UNIVERSITY OLMOUC

IN COOPERATION WITH:

- Warsaw University of Technology, Poland
- University of Calcutta, India
- Ca' Foscari University, Italy
- Institute of Computer Science,
Polish Academy of Sciences, Poland
- Systems Research Institute,
Polish Academy of Sciences, Poland

TECHNICALLY SUPPORTED BY

- IFIP- International Federation for Information Processing
- Lecture Notes in Computer Science

CONFERENCE PATRONS

Lech Dzienis, *Rector, BUT, Poland*
Václav Snášel, *Rector, VŠB, Czech Republic*

GENERAL CHAIR

Khalid Saeed, *BUT, WUT, Poland*

CONFERENCE CO-CHAIRS

Vít Vondrák, *IT4I Director, VŠB, Czech Republic*
Vít Voženilek, *Palacký Univ., Czech Republic*
Marek Krętownski, *BUT, Poland*
Rituparna Chaki, *University of Calcutta, India*
Agostino Cortesi, *Universita Ca'Foscari, Italy*

ORGANIZING COMMITTEE

Jiří Dvorský, *VŠB, Czech Republic, chair*
Kateřina Slaninová, *VŠB, Czech Republic*
Pavel Moravec, *VŠB, Czech Republic*
Rostislav Nėtek, *Palacký Univ., Czech Republic*
Jitka Doležalová, *Palacký Univ., Czech Republic*
Zenon Sosnowski, *BUT, Poland*

KEYNOTE SPEAKERS

To be announced shortly

INTERNATIONAL PROGRAM COMMITTEE

CHAIRS:

Khalid Saeed, *BUT, WUT, Poland*
Jan Martinovič, *VŠB, Czech Republic*
Władysław Homenda, *WUT, UoB, Poland*

MEMBERS

Waleed Abdulla, *University of Auckland, New Zealand*
Raid Al-Tahir, *Univ of the West Indies, Tr. and Tobago*
Adrian Atanasiu, *Bucharest University, Romania*
Aditya Bagchi, *Indian Statistical Institute, India*
Valentina Emilia Balas, *University of Arad, Romania*
Anna Bartkowiak, *Wrocław University, Poland*
Rahma Boucetta, *National Engg School of Gabes, Tunisia*

Nabendu Chaki, *University of Calcutta, India*
Rituparna Chaki, *University of Calcutta, India*
Agostino Cortesi, *Ca' Foscari University of Venice, Italy*
Dipankar Dasgupta, *University of Memphis, USA*
Pierpaolo Degano, *University of Pisa, Italy*
Riccardo Focardi, *Ca' Foscari University of Venice, Italy*
Marina Gavrilova, *University of Calgary, Canada*
Jan Devos, *Ghent University, Belgium*
Andrzej Dobrucki, *Wrocław Univ. of Technology, Poland*
Jiří Dvorský, *Technical Univ of Ostrava, Czech Republic*
David Dagan Feng, *University of Sydney, Australia*
Pietro Ferrara, *IBM T.J. Watson Research Center, U.S.A.*
Raju Halder, *Ca' Foscari University of Venice, Italy*
Christopher Harris, *State University of New York, USA*
Kauru Hirota, *Tokyo Institute of Technology, Japan*
Khalide Jbilou, *Université du Littoral Côte d'Opale, France*
Ryszard Kozera, *The Univ of Western Australia, Australia*
Tomáš Kozubek, *Technical Univ of Ostrava, Czech Republic*
Marek Lampart, *Technical Univ of Ostrava, Czech Republic*
Flaminia Luccio, *Ca' Foscari University of Venice, Italy*
Pavel Moravec, *Technical Univ of Ostrava, Czech Republic*
Romuald Mosdorf, *Technical University of Białystok, Poland*
Debajyoti Mukhopadhyay, *Maharashtra Inst.f Tech, India*
Yuko Murayama, *Iwate University, Japan*
Nobuyuki Nishiuchi, *Tokyo Metropolitan University, Japan*
Andrzej Pacut, *Technical University of Warsaw, Poland*
Jerzy Pejaś, *WPUT in Szczecin, Poland*
Marco Pistoia, *IBM Watson Research Center, USA*
Igor Podolak, *Jagiellonian University, Kraków, Poland*
Jaroslav Pokorný, *Charles University, Czech Republic*
Piotr Porwik, *University of Silesia, Poland*
Jan Preis-Heje, *Ghent University, Netherlands*
Isabel Ramos, *University of Minho, Portugal*
Anirban Sarkar, *NIT, Durgapore*
Ewa Skubalska-Rafajłowicz, *Wrocław Univ of Tech, Poland*
Kateřina Slaninová, *Tech. Univ of Ostrava, Czech Republic*
Krzysztof Ślot, *Lodz University of Technology, Poland*
Václav Snášel, *Technical Univ of Ostrava, Czech Republic*
Zenon Sosnowski, *Białystok Univ of Tech, Poland*
Jarosław Stepaniuk, *Białystok Univ of Tech, Poland*
Marcin Szpyrka, *AGH Univ. of Sc and Tech, Kraków, Poland*
Jacek Tabor, *Jagiellonian University, Kraków, Poland*
Pavel Tuček, *Palacký Univ., Czech Republic*
Andrea Torsello, *Ca' Foscari University of Venice, Italy*
Nitin Upadhyay, *BITS Pilani, India*
Vít Voženilek, *Palacký Univ., Czech Republic*

Qiang Wei, Tsinghua University, Beijing, China
Sławomir Wierzchoń, Polish Academy of Sc, Warsaw, Poland
Michał Woźniak, Wrocław University of Technology, Poland
Sławomir Zadrozny, Polish Academy of Sciences, Poland

PURPOSE OF CONFERENCE

This conference aims to bring many important research streams together. Computer Information Systems and their applications in Image Analysis and Processing, Biometrics in both behavioral and physiological categories comprise researches in Information Processing Systems and Human Identification and Recognition Techniques. Therefore, researchers are encouraged to submit their contributions in both theoretical and practical aspects of the following Topics.

TOPICS

The topics of the conference include the following scientific research areas of Computer Science.

- Biometrics Security and Multi-media

Preprocessing Methods, Feature Extraction, Face Description and Identification, Retinal and Iris, Tongue, DNA and EEG Biometrics, Multi-modal Biometric Methods, Medical Analysis, Border Control, Biometric Cryptosystems, Fingerprints, Hand Palm and Hand Geometry, Speech and Speaker Verification and all other topics on Human Description, Classification, Identification and Recognition; Kansei Engineering, Affective Systems and Human Emotion Measuring Techniques

- Computer Information Systems

Signal & Image Analysis and Processing, Computer Graphics and Vision, Object Classification and Recognition, Artificial Intelligence, Ambient Intelligence, Ubiquitous Systems, Mobile and Pervasive Computing, Security, Mobile Ad-hoc and Sensor Network Service-oriented Framework and Middleware Network and Application Hardware, Quality of Services (QoS), Medical, Multimedia

- Geoinformation Science and Technologies

Geovisualization, Spatial Data Analysis, Geoapplication Development, Geoinformation Science and Technologies, Geocomputation

- Machine learning and High Performance Computing

Classification, Clustering, Deep Learning, SVM, Bayesian Models, Code Optimization, Large Scale Data Analysis, Cloud and Grid Computing

- Industrial Management and other Applications.

Commerce, Engineering Economy and Cost Analysis, Engineering Education and Training, Global Manufacturing and Management, Human Factors, Information Processing and Engineering, Intelligent Systems, Manufacturing Systems, Operations Research, Production Planning and Control, Project Management, Quality Control and Management, Reliability and Maintenance Engineering, Safety, Security and Risk Management, Service Innovation and Management, Supply Chain Management, Systems Modeling and Simulation, Technology and Knowledge Management, Big Data Analytics.

PAPER PRESENTATION

Research papers (12 pages) in Springer LNCS style should be submitted through the EasyChair system: <https://easychair.org/conferences/?conf=cisim2018>

PROCEEDINGS AND PUBLICATION

Authors are invited to submit technical papers describing original research. Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this symposium. Accepted papers will be published in the conference proceedings, in the Lecture Notes in Computer Science series, by Springer-Verlag. Authors will be required to sign a copyright release.

IMPORTANT DATES

Paper due: **April 1, 2018**

Notification: **May 27, 2018**

Camera-ready and Registration due: **June 17, 2018**

PREVIOUS CONFERENCES

CISIM 2017 Poland
<https://wi.pb.edu.pl/cisim2017/>

CISIM 2016 Vilnius
<http://www.uwb.lt/cisim2016/>

CISIM 2015 Warsaw
<http://www.mini.pw.edu.pl/cisim2015/>

CISIM 2014 Viet Nam
<http://cisim2014.tdt.edu.vn>

CISIM 2013 Poland
<http://home.agh.edu.pl/~saeed/cisim2013/>

CISIM 2012 Italy
<http://www.dsi.unive.it/CISIM/>

CISIM 2011 India
<http://cisim.cucse.org/>

CISIM 2010 Poland
<http://home.agh.edu.pl/~saeed/cisim/>

CISIM 2009 India
<http://www.mirlabs.org/cisim09/>

CISIM 2008 Czechia
<http://arg.vsb.cz/cisim/>

ISDA-CISIM 2007 Brazil
<http://www.isda07.eng.uerj.br/workshops/>

ACS-CISIM 2004-2006 Poland
<http://acs.wi.ps.pl/>

CISIM 2003, 2007 Poland
<http://private.wsfiz.edu.pl/mosdorf/cisim07/>