



## CISIM 2020

### 19th International Conference on Computer Information Systems and Industrial Management Applications

**Białystok, October 16-18, 2020**

**Faculty of Computer Science  
Białystok University of Technology  
Wiejska 45A, 15-351 Białystok, POLAND**

[cisim2020.wi.pb.edu.pl](http://cisim2020.wi.pb.edu.pl)

ORGANIZED BY



**BUT**

**BIALYSTOK UNIVERSITY OF TECHNOLOGY**

*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,  
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- *PTSK, Polskie Towarzystwo Symulacji Komputerowej*

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- *Lecture Notes in Computer Science, Springer*

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## 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

### - Biometrics and Security

*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*

### - Classification and clustering with applications

*Classification, Clustering, SVM, Neural gas, Bayesian Models, Neural Networks*

### - 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.*

## IMPORTANT DATES

**Paper submission: February 7, 2020**

**Notification: March 14, 2019**

**Camera-ready & Registration: March 28, 2020**

## REVIIOUS CONFERENCES

CISIM 2019 Serbia

<https://wi.pb.edu.pl/cisim2019/>

CISIM 2018 Czech Republic

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

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 Czech

<http://arg.vsb.cz/cisim/>

CISIM 2007 Elk

<http://private.wsfiz.edu.pl/mosdorf/cisim07/>

ACS-CISIM 2005-2006

<http://acs.wi.ps.pl>

CISIM 2003-2004 Elk

<http://private.wsfiz.edu.pl/mosdorf/cisim04/>

