

# ICCCC2018

First Call for Papers (26.02.2017)

We intend again to organize this edition in collaboration with IEEE Region 8



ICCCC2018 7<sup>th</sup> International Conference on Computers Communications and Control

Co-Sponsored by IEEE Region 8 - Europe, Middle East, Africa (ICCCC2016)



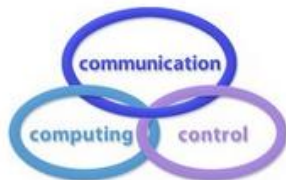
and by Research & Development Center of Agora University

Place: Hotel President\*\*\*\*, Băile Felix, Oradea, România

Period: May 08-12, 2018

Organizer: Agora University of Oradea,

under the aegis of Romanian Academy: - Information Science and Technology Section.



**Previous edition: IC CCC 2016:** <http://univagora.ro/en/icccc2016>

The Proceedings of IC CCC2016 has been published by IEEE

<http://www.proceedings.com/30804.html>

and indexed in IEEE Xplore and in ISI Web of Science (Thomson Reuters).

Some selected proceedings papers was extended and published in INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL.

## Scope and Topics

**The International Conference on Computers Communications and Control (ICCCC)** has been founded in 2006 by I. Dzitac, F.G. Filip and M.-J. Manolescu and organized every even year by Agora University of Oradea, under the aegis of the Information Science and Technology Section of Romanian Academy and IEEE - Romania Section.

2016 edition was Co-Sponsored by IEEE Region 8 - Europe, Middle East, Africa

The goal of this conference is to bring together international researchers, scientists in academia and industry to present and discuss in a friendly environment their latest research findings on a broad array of topics in computer networking and control.

The Program Committee is soliciting paper describing original, previously unpublished, completed research, not currently under review by another conference or journal, addressing state-of-the-art research and development in all areas related to computer networking and control.

## ICCCC2018 Chairs and Committees

### General Chair:



[Ioan DZITAC](mailto:rector@univagora.ro), Rector of Agora University of Oradea, Romania, [rector@univagora.ro](mailto:rector@univagora.ro),  
[professor.ioan.dzitac@ieee.org](mailto:professor.ioan.dzitac@ieee.org)

**Prof. Ioan Dzitac**, PhD, Senior Member of IEEE (since 2011), is an information sciences professor at Aurel Vlaicu University of Arad -Romania (since 2009), Adjunct Professor at University of Chinese Academy of Sciences -Beijing, China (2013-2016) and Rector of Agora University of Oradea -Romania (2012-2020). He received B.Sc.(eq.M.Sc.) in Mathematics (1977) and Ph.D. in Information Sciences (2002) from Babes-Bolyai University of Cluj- Napoca, Romania. His current research interests include different aspects of Artificial Intelligence, Applications of Fuzzy Logic, Distributed Systems and Information Systems. He is co-founder and A. Editor-in-Chief of an ISI SCI Expanded quoted journal (2006), International Journal of Computers Communications & Control and member in Editorial Board of 7 scientific journals. Also he is co-founder and General Chair International Conference on Computers Communications and Control and he was member of the Program Committee of more than 70 international conferences and gave plenary papers and special sessions in universities and conferences held in China (4), Russia, Brazil, India, Lithuania and South Korea. He has published over 60 scientific papers, 2 books, 14 courses and materials for students, 4 conference proceedings and more than 60 scientific papers in journals and conferences proceedings.

### Program Committee Chair:



[Florin Gheorghe FILIP](mailto:ffilip@acad.ro), President of "Information Science and Technology" Section of Romanian Academy, Romania, [ffilip@acad.ro](mailto:ffilip@acad.ro)

**Prof. Dr. Eng. Florin Gheorghe Filip** is a full member of Romanian Academy, President of "Information Science and Technology" Section of Romanian Academy, and director of Library of Romanian Academy. He was a Vice-President of the Romanian Academy (2000 - 2010), Managing director of National Institute for R&D in Informatics (1991-1997). He authored/coauthored over 250 papers published in international journals (IFAC J Automatica, IFAC J Control Engineering Practice, Annual Reviews in Control, Computers in Industry, System Analysis Modeling Simulation, Large Scale Systems etc) and contributed volumes printed by international publishing houses (Pergamon Press, Springer, Kluwer, Chapman & Hall etc). He is also the author/coauthor of ten monographs. He was an IPC member of more than 50 international conferences held in Europe, USA, South America, Asia and Africa and gave plenary papers at scientific conferences held in Chile, China, France, Poland, Portugal, Rep. of Moldova, Spain, Tunisia, UK. He is co-

founder and Editor-in-Chief of International Journal of Computers Communications & Control and co-founder of International Conference Computers Communications & Control. He has received Doctor Honoris Causa title from "Lucian Blaga" University of Sibiu (November 2000), "Valahia" University, Targoviste (2007), "Ovidius" University, Constanta (2007), Ecole Centrale de Lille (France) (2007), Technical University "Traian Vuia", Timisoara (2009), Agora University of Oradea (2012) and Academy of Economic Studies, Bucharest (2014).

### Organizing Committee Chair:



[Misu-Jan MANOLESCU](#),

President of Agora University of Oradea, Romania, mmj@univagora.ro

**Prof. Dr. Eng. Misu-Jan Manolescu** is a Professor of Risk Management and President of Administration Council of Agora University. He is an Engineer, PhD in Energy Engineering, PhD in Management, president of Agora Foundation, Founder of Agora University and co-founder and Managing Editor of International Journal of Computers Communications & Control and co-founder of International Conference Computers Communications & Control.

His publications and research results consist in 10 books, over 60 papers and 2 inventions.

### Program Committee

- Răzvan ANDONIE, *Central Washington University, USA* (Senior Member of IEEE)
- Valentina BALAS, Aurel Vlaicu University of Arad, Romania (Senior Member of IEEE)
- Barnabas BEDE, DigiPen University, USA
- Valeriu BEIU, Aurel Vlaicu University of Arad, Romania
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- Kaoru HIROTA, Tokyo Institute of Technology, Japan (Senior Member of IEEE)
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- Horia-Nicolai TEODORESCU, Technical Univ. Gh. Asachi Iasi, Romania (Senior Member of IEEE and Corresponding Member of Romanian Academy)
- Dan TUFIŞ, Romanian Academy – Institute of Artificial Intelligence “Mihai Draganescu”, Romania (Full Member of Romanian Academy)
- Zenonas TURSKIS, Vilnius Gediminas Technical University, Lithuania

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- Razvan MEZEI, Lenoir-Rhyne University, USA
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- Horea OROS, University of Oradea, Romania
- Marius SINCA, Agora University of Oradea, Romania
- Bogdana STANOJEVIC, Mathematical Institute of the Serbian ASA, Serbia
- Ramona URZICEANU, Agora University of Oradea, Romania.

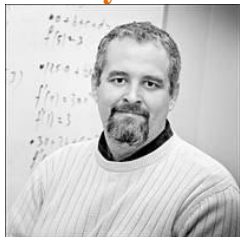
## Keynote Speakers at ICCCC 2018

May 8-12, Oradea, Romania

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### Dr. Barnabas BEDE

Plenary lecture: *Advances in Fuzzy Systems*



[Department Chair, Mathematics](#), DigiPen Institute of Technology, Redmond, Washington, USA  
bbede@digipen.edu

**Dr. Barnabas Bede** earned his Ph.D. in Mathematics from Babes-Bolyai University of Cluj-Napoca, Romania. His research interests include Fuzzy Sets, Fuzzy Logic and Image Processing. He serves as editorial board member of the journals [Fuzzy Sets and Systems](#) and *Information Sciences*. He joined DigiPen in 2011. Before that, he held positions in Romania, Hungary, University of Texas at El Paso and University of Texas-Pan American.

At DigiPen he develops class material for Fuzzy Sets and various topics in Mathematical Analysis.

#### **Selected publications:**

- B. Bede, S.G. Gal, "[Generalizations of the Differentiability of Fuzzy-Number-Valued Functions with Applications to Fuzzy Differential Equations.](#)" *Fuzzy Sets and Systems* 151(2005) 581-599.
- B. Bede, "[Mathematics of Fuzzy Sets and Fuzzy Logic.](#)" *Springer*, 2013

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### Dr. Valeriu BEIU

Plenary lecture: *Brain-inspired Nano-architectures*



Department of Mathematics and Computer Science,  
Aurel Vlaicu University of Arad, Romania  
valeriu.beiu@uav.ro

**Valeriu Beiu** (S'92-M'95-SM'96) received the MSc in CE from the University "Politehnica" Bucharest (UPB) in 1980, and the PhD summa cum laude in EE from the Katholieke Universiteit Leuven (KUL) in 1994.

His affiliations include the Research Institute for Computer Techniques, UPB, KUL, King's College London, Los Alamos National Laboratory, Rose Research, Washington State University, United Arab Emirates University, and "Aurel Vlaicu" University of Arad, while his research interests have constantly been on biological-inspired nano-circuits and brain-inspired nano-architectures (low-power, highly reliable, massively parallel), being funded at over US\$ 41M, and publishing over 250 papers (42 invited and 11 patents) as well as giving over 190 invited talks and organizing over 100 conferences.

Dr. Beiu received 5 fellowships and 7 best paper awards, and is a member of ACM, INNS, ENNS, and MCFA. He was a member of the SRC-NNI Working Group on Novel Nano-architectures, the IEEE CS Task Force on Nano-architectures, and the IEEE Emerging Technologies Group on Nanoscale Communications, and has been an Associate Editor of the *IEEE Transactions on Neural Networks*, *Nano Communication Networks*, and *IEEE Transactions for Very Large Scale Integration Systems*.

***Selected publications:***

- V. Beiu, J.M. Quintana, M.J. Avedillo, [VLSI implementations of threshold logic-a comprehensive survey](#), IEEE Transactions on Neural Networks 14 (5), 1217-1243.
- S. Roy, V. Beiu, [Majority multiplexing-economical redundant fault-tolerant designs for nanoarchitectures](#), IEEE Transactions on Nanotechnology 4 (4), 441-451.

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**Dr. Arturas KAKLAUSKAS**

***Plenary lecture: Body Language and Affective Computing***



Chairman of the Department of Construction Economics and Property Management  
Director of the Research Institute of Smart Building Technologies  
Editor of International Journal "Engineering Applications of Artificial Intelligence"  
Member of the Lithuanian Academy of Science  
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***Web of Science Citation Report for Prof. A. Kaklauskas:***

- Published papers: 141; H-Index: 23; Sum of times cited: 1764;

**Dr.Sc. A. Kaklauskas** is a professor at Vilnius Gediminas Technical University, in Lithuania; Director of the Research Institute of Smart Building Technologies; Head of the Department of Construction Economics and Property Management; laureate of the Lithuanian Science Prize; member of the Lithuanian Academy of Sciences and editor of Engineering Applications of Artificial Intelligence, an international journal. He contributed to nine Framework programme, two HORIZON2020 projects and participated in over 30 other projects in the EU, US, Africa and Asia. The Belarusian State Technological University (Minsk, Belarus) awarded him an Honorary Doctorate in 2014. His publications include nine books and 121 papers in Web of Science Journals. Fifteen PhD students successfully defended their theses under his supervision. The Web of Science H-Index of Prof. A. Kaklauskas is 23. Web of Science Journals have cited him 1764 times. His areas of interest include multiple criteria decision analysis, intelligent decision support systems, affective computing, big data analytics, intelligent tutoring systems, intelligent library, internet of things, life cycle analyses of built environments, energy, climate change, resilience management, healthy houses, sustainable built environments, etc.

***Selected publications:***

- [Body Language and Affective Computing](#)
- [Environmental sustainability development in post-Soviet states over 25 years: An integrated multiple criteria analysis](#)

## Special Sessions of ICCCC2018

### Special Session 1: *Network Optimization and Security*

#### Organizers and Chairs:

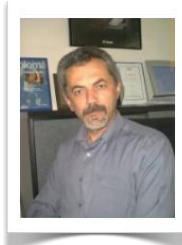
**Prof. Yezid DONOSO**



**Prof. Yezid DONOSO**, *Head of the Information Security Postgraduate and Master Program, Systems and Computing Engineering Department, Universidad de los Andes, Cra. 1 Este No. 19A-40, Phone 57-1-3394949 Ext 1723, Bogotá, Colombia, South America,*

E-mail: ydonoso@uniandes.edu.co

**Prof. Dominic BUCERZAN**



**Prof. Dominic Bucerzan**, Faculty of Exact Sciences, Department of Mathematics and Computer Science,

Aurel Vlaicu University of Arad

E-mail: dominic@bbcomputer.ro

#### **Session Scope:**

The convergence in communication networks and computing has led the exponential growth of new applications and information systems. Nowadays, users and applications generate and request more data demanding efficient and secure management. New algorithms are needed to manage the network resource allocation improving the network performance, response against failures, congestion and attacks; and to avoid loss of confidentiality, integrity or availability in the network.

#### **Session Topics**

**T.2.1. Network Optimization:** *Advanced Network Architecture; Computational complexity and data structures; Distributed Algorithms for control and management in Communication Systems; Energy Efficiency in Wireless Networks; Mobility, Handoff, and Location Management; Network Algorithm analysis; Network Structure, Routing and Resource Management; Networks Survivability against Failures, Congestion and Attacks; Network Planning; Quality of Service / Quality of Experience Optimization; Software Define Network; Scheduling and Network Optimization; Self-Organizing Networks; Reliable Networks; Special Topics in Network Optimization.*

**T.2.2. Security:** *Intrusion; Detection and Prevention Systems; Network Authentication and Key Management; Network Reliability; Privacy and Anonymity; Secure Networking; Secure Network Protocols; Security for Cloud Networking; Security for Internet Applications; Security for Wireless Sensor networks; Security for Smart Grids; Security for Vehicular Networks; Security for Critical Infrastructures; Special Topics in Security.*

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### Special Session 2: *Advances in Fuzzy Systems*

**Organizer and Chair: Prof. Barnabas BEDE**

[Department Chair, Mathematics,](#)

DigiPen Institute of Technology, Redmond, Washington, USA, E-mail: bbede@digipen.edu

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### **Special Session 3: Brain-inspired Nano-architectures**

**Organizer and Chair: Prof. Valeriu BEIU**

Department of Mathematics and Computer Science,

Aurel Vlaicu University of Arad, Romania

E-mail: valeriu.beiu@uav.ro

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### **Special Session 4: Affective Computing**

**Organizer and Chair: Acad. Arturas KAKLAUSKAS**

Chairman of the Department of Construction Economics and Property Management

Director of the Research Institute of Smart Building Technologies

Member of the Lithuanian Academy of Science

Vilnius Gediminas Technical University,

E-mail: arturas.kaklauskas@vgtu.lt

### **Deadlines ICCCC2018**

- Abstract or Full Paper Draft Submission: *November 15, 2017*
- Notification of Acceptance/Rejection of Abstracts: *December 1, 2017*
- Full Paper Submission : *January 15, 2018*
- Notification of Acceptance/Rejection of Papers: *February 15, 2018.*
- Final Submission of Accepted Papers: *March 15, 2018.*
- Conference Fees Transfer: *February 16- March 15, 2018*

**Note:** All submissions will be performed via *EasyChair*:

<https://easychair.org/my/conference.cgi?a=12804438;conf=icccc2018>

### **ICCCC2018 Fees**

*Conference Fees (online system via credit card payment or via bank transfer will be open between February 16- March 15, 2018):*

**Variant 1. Basic variant: conference fee is 600 € (without accommodation)**

that includes:

- full access to the conference program and proceedings paper publications;
- conference materials and coffee breaks;
- reception banquets and daily meals (lunch and dinner on May 09-11);
- excursion (May 11, Mountain Resort, meals included).

**Variant 2. Full variant: conference fee is 800 €**

- accommodation at four stars Hotel in Baile Felix on May 08/09, 09/10, 10/11, 11/12: President Hotel\*\*\*\*:

<http://www.baile-felix.ro/en/>

- full access to the conference program and proceedings paper publications;
- conference materials and coffee breaks;
- reception banquets and daily meals (lunch and dinner on May 09-11);
- excursion (May 11, Mountain Resort, meals included).
- free access to the Hotel President facilities: indoor pool / outdoor pool with thermal water; sauna and Jacuzzi; fitness; sport facilities (football, tennis); guarded indoor parking; Internet - Wireless.

**Discounts (please send a request to [icccc@univagora.ro](mailto:icccc@univagora.ro))**

- There is no discount for the participants that cannot participate to the full program of the conference.
- We can accept request for discount (10%) from PhD students.
- Discount for a co-author, an attendant without paper or an accompanying person (family member) is 50%.



## ICCCC2018 Venue Information & Contact

### USEFUL LINKS

- About Oradea: <http://oradea.travel/en/>
- [The Romanian Visa](#)
- Hotel President\*\*\*\*: <http://www.baile-felix.ro/en/>
- [Oradea Airport \(We will wait in airport at Arrival Gate\)](#)
- [Oradea Train Station \(We will wait at Information Office\)](#)
- [Oradea Bus Station](#)

### If you are planning to arrive by airplane:

The closest cities with airports are:

1. **Oradea**, flying with Tarom, Blue Air, Ryanair: [Oradea International Airport](#)
2. **Debrecen (Hungary)** – 1 h- 1h30 to Oradea by bus – flights from Eindhoven, Dortmund, London with Wizzair: <http://wizzair.com/en-GB/Search>
3. **Cluj Napoca**, in Romania (2h30-3h to Oradea by bus) – flights from Bucharest, Vienna, Eindhoven, Dortmund, Frankfurt, Munich, Brussels, Paris, Rome, Barcelona, Madrid, Tel-Aviv, London, with Wizzair: <http://wizzair.com/en-GB/Search>
4. **Timisoara**, in Romania (2h-2h30 to Oradea by bus) – flights from Bucharest, Paris, London, Dortmund, Munich, Bologna, Milan, Rome, Barcelona, Madrid, with Wizzair: <http://wizzair.com/en-GB/Search>
5. **Budapest (Hungary)** – 3h30-4h to Oradea by bus, or 5 hours by train – you choose your flight to Budapest International Airport (<http://www.bud.hu/english>)

### Shuttle Buses from the Airports to Oradea:

You can book your airport transfer also, separately, via the following websites:

- <http://www.eurolines.ro/article--When-and-with-what--1971.html>
- <http://www.transilvaniatravel.ro/transfer-aeroport/>
- <http://www.rentacarairport.ro/home-en>
- <http://www.transportautocar.eu/timetable.html>
- <http://www.airantares.ro/transport-microbuze-ro6.html>

### Contact

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