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INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL
The Brand of Agora University

communication

computing   control

2018

Focus & Scope

International Journal of Computers Communications & Control (IJCCC) is directed to the international community of scientific researchers in computers, communications and control, from the universities, research units and industry. To differentiate from other similar journals, the editorial policy of IJCCC encourages the submission of original scientific papers that focus on the integration of the 3 "C" (Computing, Communications, Control). In particular, the following topics are expected to be addressed by authors:

(1) Integrated solutions in computer-based control and communications;

(2) Computational intelligence methods & Soft computing (with particular emphasis on fuzzy logic-based methods, computing with words, ANN, evolutionary computing, collective/swarm intelligence);

(3) Advanced decision support systems (with particular emphasis on the usage of combined solvers and/or web technologies).

IJCCC is indexed and/or abstracted by: EBSCO; CrossRef/DOI; Google Scholar; Research Gate; Scimago J.; Scilit; DOAJ ; Scopus: CiteScore2016=1.06; SJR2016=0.319; SNIP2016=0.701; Clarivate Analytics/Web of Science (ISI): Science Citation Index Expanded (SCI-Expanded), SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC, JCR.

Submission: IJCCC is an open access peer-reviewed journal publishing original research papers and review articles. The authors must read the IJCCC Rules before online Submission. The manuscripts submitted via e-mail will be ignored by the Editorial Team. All submitted manuscripts will be scanned for identification of similiraties and will be analized by editors for plagiarism prevention (for this reason submission tax is required).

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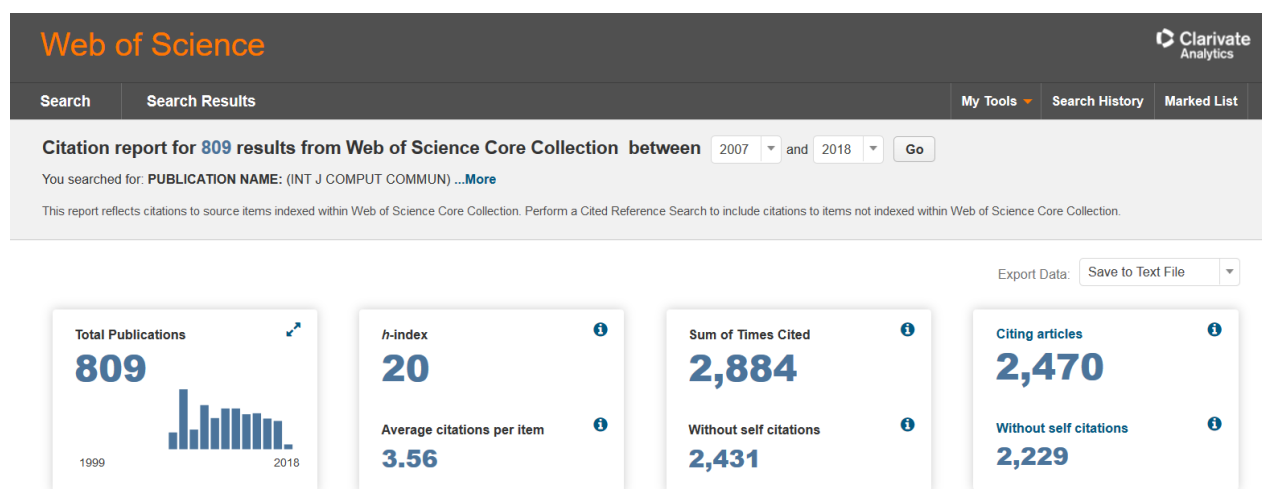
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Founders of IJCCC

Dr. Ioan DZITAC,
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Prof. Ioan Dzitac received his B.Sc.(eq.M.Sc.) in Mathematics (1977) and Ph.D. in Information Sciences (2002) from Babes-Bolyai University of Cluj - Napoca, Romania. He is an information sciences professor at Aurel Vlaicu University of Arad (since 2009). He was an Adjunct Professor at University of Chinese Academy of Sciences - Beijing, China (2013-2016) and since 2016 is an Advisory Board Member at Graduate School of Management of Technology, Hoseo University, south Korea. He was a rector of Agora University of Oradea in period 2012-2016 and was re-elected for a new mandate (2016-2020). Also he was member of the IPC of more than 70 international conferences. He is a Senior Member of IEEE (since 2011). He is included in the monograph „100 Romanian Theoretical Computer Scientists" (in the last 100 years in Romania and Republic of Moldova: 1918-2018). He has published 3 books, 12 courses and materials for students, 5 conference proceedings and more than 80 scientific papers in journals and conferences proceedings.

Acad. Florin Gheorghe FILIP, ffilip@acad.ro

Prof. 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 (19911997). 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, Chapmann & Hall etc). He is also the author/coauthor of ten monographs.

Dr. Misu-Jan MANOLESCU, mmj@univagora.ro

Prof. 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. He was a rector of Agora University between 2000-2012. His publications and research results consist in 10 books, over 60 papers and 2 inventions.

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Lotfi A. Zadeh (Feb. 4, 1921 - Sept. 6, 2017)
The inventor of Fuzzy Sets, Fuzzy Logic, and Soft Computing
Former member in the Editorial Board of IJCCC between 2008-2017

Interview with editor-in-chief Ioan Dzitac

Scopus Awards Romania 2015

recognizes

International Journal of
Computers, Communications and
Control

as a nominee for

Journal Excellence Award

In Timișoara, Romania
October 29, 2015

Endre Béky
Regional Director
Eastern Europe & Russia
Elsevier, B.V.

Elsevier: How do you feel about being nominated for Scopus Awards 2015?

Editor-in-Chief Ioan Dzitac:

The whole team is honored by the nomination which we believe is an acknowledgement of all the hard work that stands behind the publishing of International Journal of Computers Communication & Control (IJCCC). We would like to thank our authors, reviewers and the entire team for all their dedication, originality and hard work.

Elsevier: What gap do you think your journal fills in your respective field of research?

Editor-in-Chief Ioan Dzitac:

IJCCC has been focused from the very beginning on promoting research that integrates the „3Cs" – Computing, Communication and Control as to N. Wiener's theory in order to try and differentiate ourselves from the other journals indexed in the same category by Scopus.

Elsevier: If you could pick 5 articles of great importance for your field of research that have been published in your journal which would those be and why?

Editor-in-Chief Ioan Dzitac:

I have decided to choose 5 of the most cited articles according to international databases such as Scopus and SCI Expanded:

1. Spiking neural P systems with anti-spikes, by Pan, L., Păun, G., 2009.
2. Tissue P systems with cell division, by Păun, G., Pérez-Jiménez, M.J., Riscos-Núñez, A., 2008.
3. Computing Nash equilibria by means of evolutionary computation, by Lung, R.I., Dumitrescu, D., 2008.
4. Lorenz system stabilization using fuzzy controllers, by Precup, Radu-Emil; Tomescu, Marius L.; Preitl, Stefan, 2007.
5. Neuro-fuzzy based approach for inverse kinematics solution of industrial robot manipulators, by Alavandar, S., Nigam, M.J., 2008.

Elsevier: For you, as Editor-in-chief, what is the most important development objective for 2016?

Editor-in-Chief Ioan Dzitac:

Reinforcing the intellectual current we have created through publishing high quality articles that bring new ideas and multidisciplinary approaches.

Elsevier: Why did you choose to publish your journal Open Access?

Editor-in-Chief Ioan Dzitac:

We have never followed financial gain as our main goal has been to publish high quality articles with a real effect on the evolution of society.

Elsevier: What do you think makes your journal stand out?

Editor-in-Chief Ioan Dzitac:

First of all it stands out through the approach of the subject by integrating the 3Cs. On top of this I would add the geographical distribution of the authors that come from over 45 countries and are affiliated to more than 150 universities. The prestige of the editorial board that included researchers from 14 countries

The editorial team is another strong point as it includes researchers affiliated to high ranked universities from top 100 QS (1. Massachusetts Institute of Technology (MIT), 17. Cornell University, 24. McGill University, 25. Tsinghua University, 26. University of California Berkeley, Berkeley (UCB), 56. Tokyo Institute of Technology, 70. Shanghai Jiao Tong University, 80. University of Sheffield, 89. Purdue University, 96. University of Alberta). Finally I would like to point out our association with the International Conference on Computers Communications and Control.

JCR Impact Factor						
JCR Year	AUTOMATION & CONTROL SYSTEMS			COMPUTER SCIENCE, INFORMATION SYSTEMS		
	Rank	Quartile	JIF Percentile	Rank	Quartile	JIF Percentile
2016	43/60	Q3	29.167	96/146	Q3	34.589
2015	48/59	Q4	19.492	116/144	Q4	19.792
2014	47/58	Q4	19.828	96/139	Q3	31.295
2013	46/59	Q4	22.881	96/135	Q3	29.259
2012	49/59	Q4	17.797	109/132	Q4	17.803
2011	46/58	Q4	21.552	109/135	Q4	19.630
2010	38/60	Q3	37.500	97/128	Q4	24.609
2009	50/59	Q4	16.102	108/116	Q4	7.328

IJCCC in JCR - ISI Web of Science

International Journal of Computers Communications & Control

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Key Indicators

Year ▼	Total Cites Graph	Journal Impact Factor Graph	Impact Factor Without Journal Self Cites Graph	5 Year Impact Factor Graph	Immediacy Index Graph	Citable Items Graph	Cited Half-Life Graph	Citing Half-Life Graph	Eigenfactor Score Graph	Article Influence Score Graph	% Articles in Citable Items Graph	Normalized Eigenfactor Graph	Average JIF Percentile Graph
2016	649	1.374	1.265	1.193	0.297	64	4.0	7.8	0.00…	0.159	100.00	0.09…	31.878
2015	391	0.627	0.537	0.635	0.297	74	4.2	8.2	0.00…	0.131	100.00	0.08…	19.642
2014	391	0.746	0.615	0.739	0.178	73	4.2	7.9	0.00…	0.185	100.00	0.118…	25.561
2013	305	0.694	0.585	0.622	0.165	85	3.7	7.8	0.00…	0.126	100.00	0.09…	26.070
2012	175	0.441	0.289	0.436	0.060	84	4.0	7.8	0.00…	0.093	100.00	Not …	17.800
2011	144	0.438	0.335	Not A…	0.095	63	3.2	8.4	0.00…	Not …	100.00	Not …	20.591

		2014	2015	2016	2017	2018	Total	Average Citations per Year
		413	418	475	488	59	2884	262.18
1.	**Title:** Spiking Neural P Systems with Anti-Spikes **By:** Pan, Linqiang; Paun, Gheorghe **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 4 **Issue:** 3 **Pages:** 273-282 **Published:** SEP 2009	23	15	8	8	3	77	7.70
2.	**Title:** Tissue P systems with cell division **By:** Paun, Gheorghe; Perez-Jimenez, Mario J.; Riscos-Nunez, Agustin **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 3 **Issue:** 3 **Pages:** 295-303 **Published:** 2008	8	5	6	10	1	57	5.18
3.	**Title:** Ant systems & local search optimization for flexible job shop scheduling production **By:** Liouane, Noureddine; Saad, Ihsen; Hammadi, Slim; et al. **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 2 **Issue:** 2 **Pages:** 174-184 **Published:** 2007	4	2	4	3	0	46	3.83
4.	**Title:** Fuzzy Logic Control System Stability Analysis Based on Lyapunov's Direct Method **By:** Precup, R-E; Tomescu, M. -L.; Preitl, St. **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 4 **Issue:** 4 **Pages:** 415-426 **Published:** DEC 2009	3	9	20	7	3	44	4.40
5.	**Title:** Determining Basic Probability Assignment Based on the Improved Similarity Measures of Generalized Fuzzy Numbers **By:** Jiang, W.; Yang, Y.; Luo, Y.; et al. **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 10 **Issue:** 3 **Pages:** 333-347 **Published:** JUN 2015	0	6	25	11	1	43	10.75
6.	**Title:** Computing Nash equilibria by means of evolutionary computation **By:** Lung, Rodica Ioana; Dumitrescu, Dan **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 3 **Supplement:** S **Pages:** 364-368 **Published:** 2008	3	3	5	6	0	38	3.45
7.	**Title:** EECDA: Energy Efficient Clustering and Data Aggregation Protocol for Heterogeneous Wireless Sensor Networks **By:** Kumar, D.; Aseri, T. C.; Patel, R. B. **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 6 **Issue:** 1 **Pages:** 113-124 **Published:** MAR 2011	4	9	6	5	2	37	4.63
8.	**Title:** Lorenz system stabilization using fuzzy controllers **By:** Precup, Radu-Emil; Tomescu, Marius L.; Preitl, Stefan **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 2 **Issue:** 3 **Pages:** 279-287 **Published:** 2007	11	7	2	0	0	35	2.92
9.	**Title:** A Decision-Making Perspective for Designing and Building Information Systems **By:** Filip, F. G. **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 7 **Issue:** 2 **Pages:** 264-272 **Published:** JUN 2012	10	9	2	6	0	31	4.43
10.	**Title:** Artificial Intelligence plus Distributed Systems = Agents **By:** Dzitac, Ioan; Barbat, Boldur E. **Source:** INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL **Volume:** 4 **Issue:** 1 **Pages:** 17-26 **Published:** MAR 2009	2	0	0	2	0	30	3.00

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From the same publisher
International Journal of Computers Communications and Control

Contact:
Editors-in-Chief: Ioan Dzitac and Florin Gheorghe Filip

ISSN:
1841- 9844

Website:
http://univagora.ro/jour/index.php/ijccc/

Publisher:
Agora University of Oradea

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Ioan Dzitac

Associate Editor in Chief, *International Journal of Computers Communications & Control*, Agora University of Oradea

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1841-9836 (Print); 1841-9844 (Online)

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Publisher: Agora University of Oradea
Country of publisher: Romania
Platform/Host/Aggregator: OJS
Date added to DOAJ: 18 Dec 2017

LCC Subject Category: Technology: Technology (General): Industrial engineering. Management engineering: Automation | Science: Mathematics: Instruments and machines: Electronic computers. Computer science

Publisher's keywords: communication, computing, control, computational intelligence

Language of fulltext: English

Full-text formats available: PDF

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Subject Category: (1) Automation & Control Systems: Q4(2009, 2011, 2012, 2013, 2014, 2015), Q3(2010, 2016); (2) Computer Science, Information Systems: Q4(2009, 2010, 2011, 2012, 2015), Q3(2013, 2014, 2016).
Impact Factor/3 years in JCR: 0.373(2009), 0.650 (2010), 0.438(2011); 0.441(2012), 0.694(2013), 0.746(2014), 0.627(2015), 1.374(2016).
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Dr. Ioan Dzitac
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Dear Dr. Ioan Dzitac,

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Sincerely,

Marian Hollingsworth
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Scopus coverage years: from 2008 to 2017
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(1) Computational Theory and Mathematics: Q4(2009, 2010, 2012, 2015), **Q3**(2011,2013,2014, **2016**);
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(3) Computer Science Applications: Q4(2009), **Q3**(2010, 2011, 2012, 2013, 2014, 2015, **2016**).
SJR:
0.178(2009), 0.339(2010), 0.369(2011), 0.292(2012), 0.378(2013), 0.420(2014), 0.263(2015), **0.319(2016).**
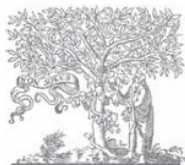
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URL (journal homepage)*: http://univagora.ro/jour/index.php/ijccc/

Number of Volume/Year*: 1   Number of Issues/Year*: 6   ISSN*: 1841-9836

EISSN: 1841-9844

Subscription End Date*: 12/31/2028

PUBLISHER INFORMATION

Publisher Name*: Agora University   Contact Name*: Ioan Dzitac

Address*: P-ta Tineretului, 8   Tel*: +40722562053

# International Journal of Computers, Communications and Control

Country	Romania
Subject Area and Category	Computer Science
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	Computer Networks and Communications
	Computer Science Applications
Publisher	Agora University
Publication type	Journals
ISSN	18419836

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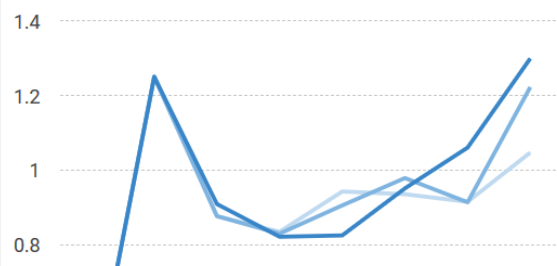www.scimagojr.com/journalsearch.php?q=11800154542&tip=sid
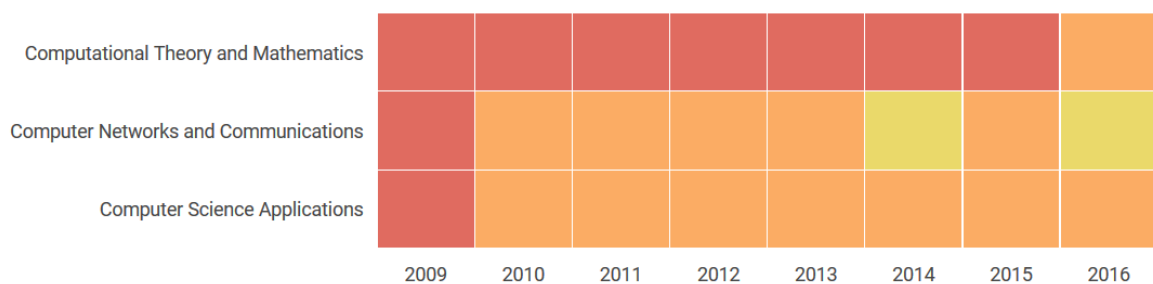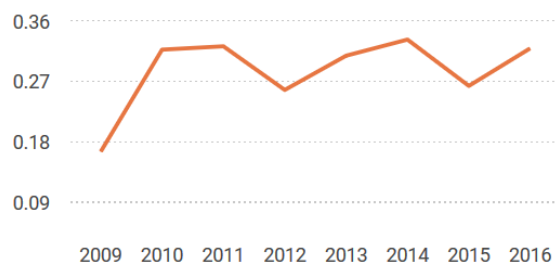
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ISSN 1843-570X; E-ISSN 2067-7677

Agora International Journal of Juridical Sciences (AIJJS) is published yearly between 2007 and 2009. Beginning with 2010 it is published twice a year and from 2013 it is published quarterly.

It includes studies that are structured on the following scientific fields: Private Law, Public Law, Criminal Law and Criminalistics.

The issues of the journal are: No.1 AIJJS (January-March), No.2 AIJJS (April-June), No.3 AIJJS (July-September), No.4 AIJJS (October-December).

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AGORA INTERNATIONAL JOURNAL OF ECONOMICAL SCIENCES

ISSN 2067-3310 Online-ISSN 2067–7669

Agora International Journal of Economical Sciences is published yearly, beginning with 2007 and includes Studies that are structured on the following scientific fields: General Economic, Management, Marketing, Tourism, Accountable, Finance. The articles are published in English.

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AGORA INTERNATIONAL JOURNAL OF ADMINISTRATION SCIENCES

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SISTER CONFERENCE

Scope and Topics

Call for Papers

Keynote Speakers

Special Sessions

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Deadlines

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Conference Fees

Venue: Information & Contact

Publication: Instructions to authors

Submission

2018 7th International Conference on Computers Communications and Control (ICCCC)

Place: _Hotel President_ (4 stars, aqua-park, spa), Băile Felix, Oradea, România

Period: May 08-12, 2018

Co- Sponsored by

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Dedication: This edition is dedicated to the 100th anniversary of

RICHARD P. FEYNMAN (1918-1988) - American theoretical physicist known for his work in the path integral formulation of quantum mechanics, the theory of quantum electrodynamics and others.

Keynote and special invited speakers at ICCC 2004
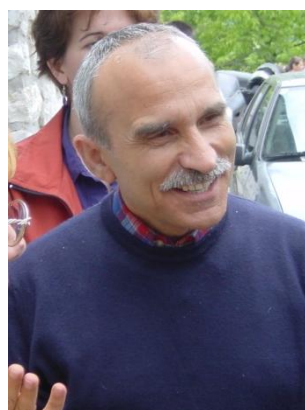

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Romania**

**Acad. Gheorghe Paun
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Germany**

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Keynote and special invited speakers at ICCCC 2006

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Keynote and special invited speakers at ICCCC 2012

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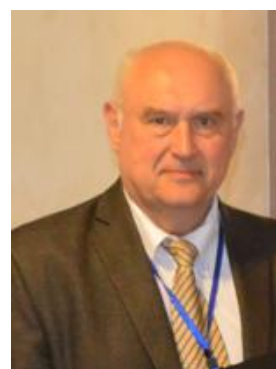**Acad. Ioan Dumitrache
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India**

Keynote and special invited speakers at ICCCC 2016

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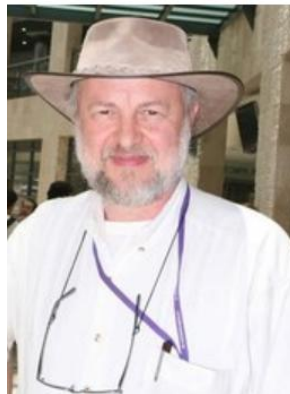
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ABOUT AGORA UNIVERSITY

Agora University of Oradea, established and accredited by Law 59/2012, identifies itself by the following elements (From University's Charter 2016):

Official name: Agora University; 2) Acronym: UAO; 3) Headquarter: Piața Tineretului no. 8, 410526, Oradea, Bihor, Romania; 4) Motto: Access to Success!; 5) The University' Day: 17 March; 6) Website: http://univagora.ro; 7) Distinguished signs: the emblem (the sign in the header), the seal, the flag (the emblem of the University on white flag), ceremonial clothing: robe and toque.

Accredited by ARACIS

2010 (Grade: Confidence); 2018 (Grade: Confidence)

UAO founding managers:

Agora Foundation, established on 10.01.2000, decided to found a private university (the General Meeting of Founders of 17.03.2000): Universitatea Agora (Agora University).

- [Prof. Misu-Jan Manolescu, PhD](), rector (2000-2012) / president of CA-UAO (2012-2020)
- [Prof. Adriana Manolescu, PhD,]() dean (2000-2010) / president of Senate (2012-2020).

UAO is a young institution of higher education (2015 celebrated 15 years of its foundation), with a brief but dense history, proud to have many collaborators famous worldwide.

Agora University of Oradea rewards diplomas given by the National Education Ministry recognized in Romania, European Union and other countries that Romania has agreements with (MEN).

UAO was characterized by EUA-IEP team (2014) as "an entrepreneurial university":

EUA-IEP Team (PDF): *"The team has enjoyed learning about the characteristics of Agora University and its role as **an entrepreneurial providerof higher education in the fields of law, management and social science.** It has been an interesting experience to discuss with staff, students, and external stakeholders the challenges faced by UAO and the university's efforts to address constraints and to explore future opportunities. We believe the university has the potential to take successful steps in its next stage of development."*

Members of Senate

Full Members elected for the 2016-2020 mandate
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3. Assoc. Prof. Ioan STAN, Ph.D.
4. Assoc. Prof. Casian-Valentin BUTACI, Ph.D.
5. Lect. Radu Gheorghe FLORIAN, Ph.D.
6. Patricia Carmen POLEAC - student FSJA
7. Loredana Gabriela MOCANU - student FSE

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2. Prof. Salvo ANDO, Università della Sicilia Centrale "Kore" di Enna, ITALIA
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5. Prof. Eva PFOSTL, Istituto "San Pio V" di Roma, ITALIA
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16. Ec. George OFRIM, Director General, ARCER, ROMANIA

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President of the Senate

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Acad. Florin Gheorghe Filip

2. Prof. dr.   Robert Joseph Childs, Southeastern University, Florida, USA

Prof.dr. R. Joseph Childs

3. Prof. dr. em. Grigor Moldovan, Universitatea Babeş-Bolyai din Cluj Napoca, România

Prof.dr.em. Grigor Moldovan

4. Prof. dr. em. Constantin Roşca, Universitatea din Craiova, România

Prof.dr. Constantin Roşca

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Prof. Yong Shi

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- [Istituto di Scienze e Tecnologie della Cognizione (ISTC)-CNR](#) , Rome,
- [Universita degli Studi di Cassino (Frosinone)](#), Italia
- [Universita degli Studi di Modena e Reggio Emilia](#),
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- [University of Montenegro](#), Montenegro

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- [Jaypee Institute of Information Technology](#)

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- [University Consortium Africa and Mediterranean](#)

European Programs
- Economic and Monetary Union (UEM, Jean Monnet)
- [Europe Direct Agora](#)
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- Erasmus +

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- http://univagora.ro/ro/parteneri/mba-usa/

Southeastern University of Florida, USA

- http://univagora.ro/ro/parteneri/mba-usa/

Beijing Jiatong University, China

-

Hoseo University, Asan, South Korea

- [Tutorial at ITQM2016, South Korea](#)

University of Chinese Academy of Sciences, Beijing, China

Jaypee Institute of Technology (Deemed to be University), Delhi, India

Jaypee Institute of Technology (Deemed to be University), Delhi, India

Kalasalingam University, India

Genesis of Kalasalingam University

KALVIVALLAL
Thiru. T. Kalasalingam
Founder - Chairman

Arulmigu Kalasalingam College of Engineering (AKCE), the parent institute to the University, was started in a humble way by Kalasalingam and Anandam Ammal Charities in 1984 with **"Kalvivallal" Thiru T. Kalasalingam**, a veteran freedom fighter as the Founder-Chairman. The Ministry of Human Resources Development, Government of India, New Delhi granted the University status (Under Section 3 of UGC Act 1956) to AKCE wide notification No. F.9-2/2002/U.3 on 20th October 2006. The University is located at the foot hills of the Western Ghats in the rural setting of Virudhunagar District, Tamil Nadu. The founding philosophy of the Institute is to **Empower Youth** for development through technology.

ILAYAVALLAL
Thiru. K. Sridharan
Chancellor

Vision
To be a Centre of Excellence of International Repute in Education and Research

Mission
To Produce Technically Competent, Socially Committed Technocrats and Administrators through Quality Education and Research

Global Associations

Kalasalingam University
has academic collaboration with the following leading foreign Universities

- Carnegie Mellon University, USA
- Soongsil University, South Korea
- University of Applied Sciences, Switzerland
- Aachen University of Technology (RWTH), Germany
- Multimedia University, Malaysia
- Ball State University, USA
- Oklahoma University, USA
- East Tennessee State University, USA
- Lebniz Institute, Germany
- Hannam University, South Korea
- Technical University of Kosice, Slovak Republic
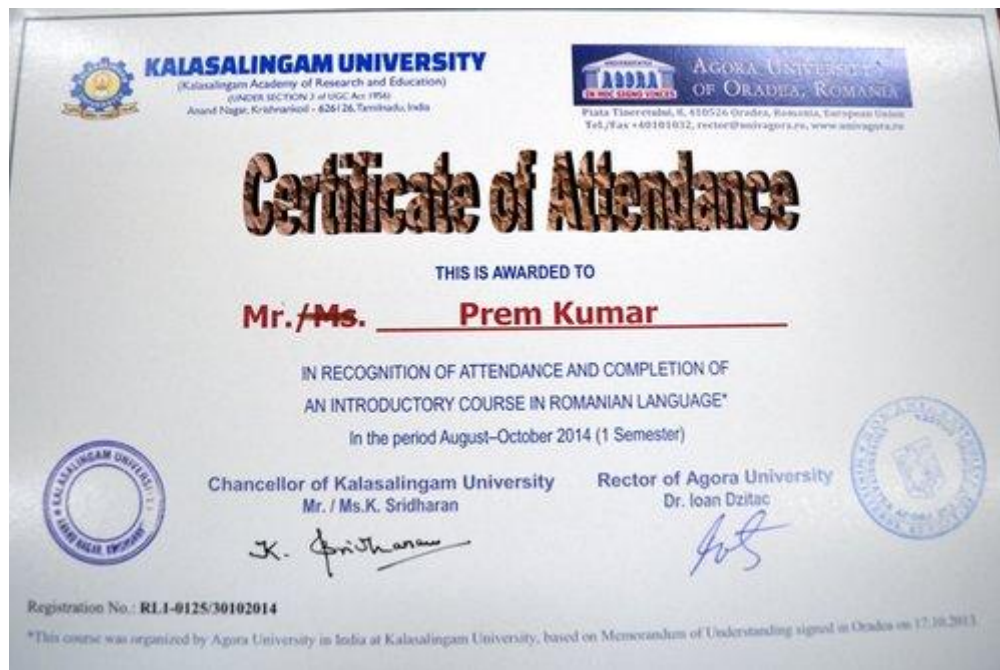- Agora University of Oradea, Romania
- University of Arad, Romania

Kalasalingam University has International Advisory Committee with members from the leading academic institutions around the world

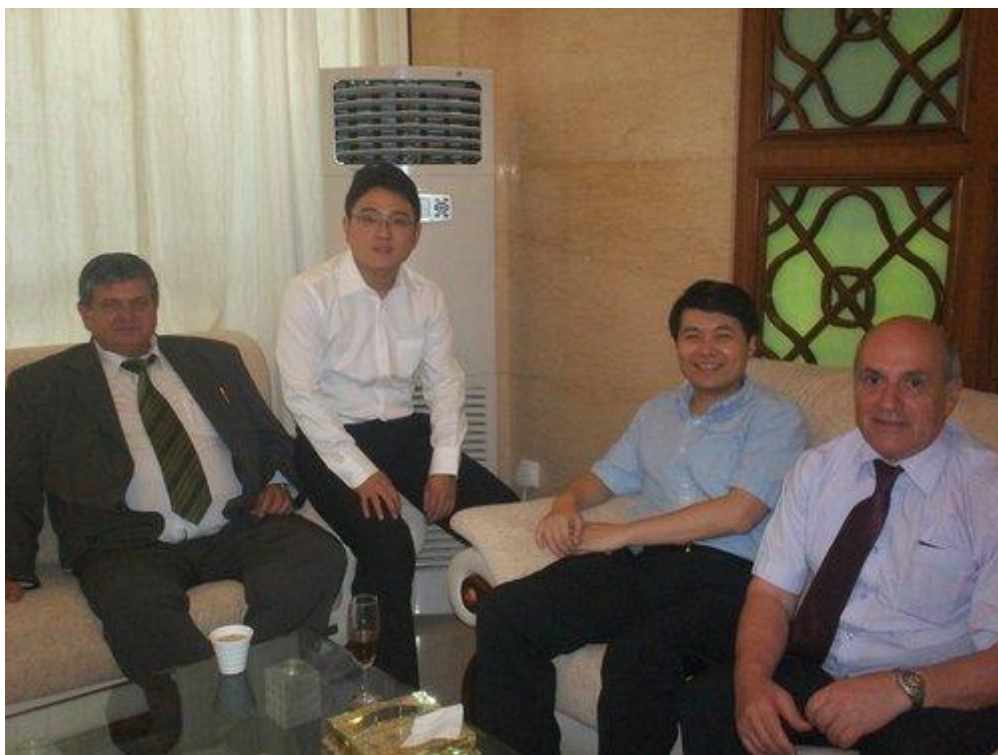## Placements   Excellent placement opportunities through various on-campus and off-camp

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- Athena Health Technologies
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- Ceasefire Industries Ltd
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- HDFC Bank
- Susee Group of Companies
- Sutherland Global Services
- HCL BServ
- SRM Technologies
- Clearpath Technology
- Madras Cements
- Green Building Academy, Dubai

- Zifo Technologies
- Abhijeet Group of Thermal Power Plant, Noida
- Oil Emirates, Dubai UAE
- Taj Hotels, Resorts & Palaces
- L&T Infotech
- Solartis Technologies
- Glaxo Smithkline Pharmaceuticals Ltd

www.kalasalingam.ac.in

Southwestern University of Finance and Economics (SWUFE), Chengdu, China

- https://e.swufe.edu.cn/eswufe/a/International/Partners/

This is to certify Professor Ioan Dzitac of his appointment to the Editorial Board member of Financial Innovation, a Springer Journal sponsored by Southwestern University of Finance and Economics.

Agora's Students at Summer School "Discover SWUFE", China

From 2014, every two UAO students participating in the Summer School "Discover SWUFE" Southwestern University of Finance and Economics (SWUFE), Chengdu, China.

UAO is a young institution of higher education (2015 celebrated 15 years of its foundation), with a brief but dense history, proud to have many collaborators famous worldwide. Here are just a few of them:
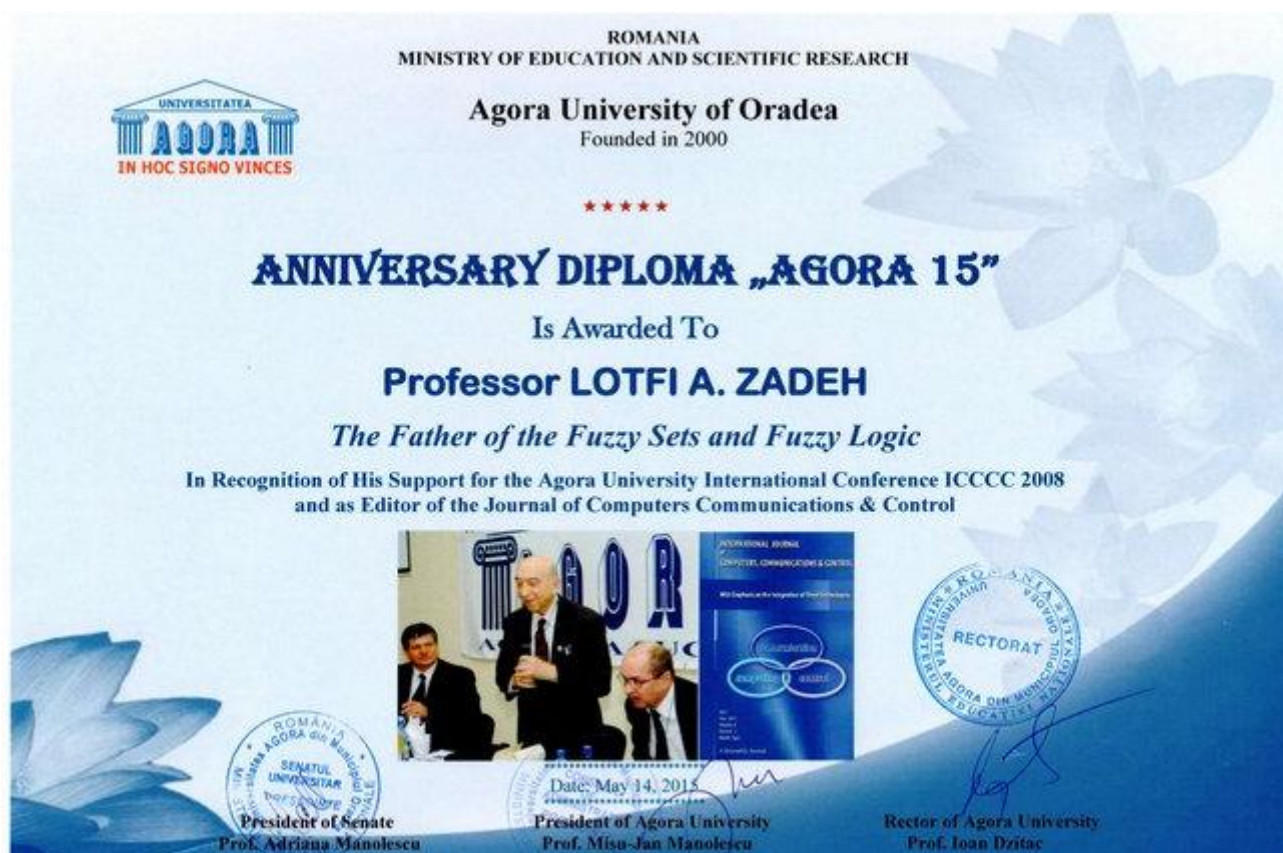
Acad. D. Tufiş, Prof. I. Dziţac, Prof. L.A. Zadeh (USA), Prof. M.-J. Manolescu, Acad. F.G. Filip

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Prof. R. Singh (India), Prof. M.-J. Manolescu, Prof. I. Dziţac, Prof. S. Karamanchandani (India)

Prof. I. Dzitac, Mr. Chancellor K. Sridaran (India), Assoc. Prof. G. Bologa,
Prof. M. Duțu, Prof. O. Predescu, Prof. E.A. Iancu

Faculties and Specializations

In 2015, in line with the recommendations of ARACIS (2010), Faculty of Law and Economics was divided into two faculties:

1. Faculty of Economic Sciences

- Bachelor: *Management & Accounting and Management Information Systems*;
- Master: *Management of Human Resources*

Management	Accounting and Management Information Systems

2. Faculty of Juridical and Administration Sciences

- Bachelor: *Law & Local police*;
- Master: *Criminal and Penal Sciences, Applied Criminal Researches*.

Law	Local police
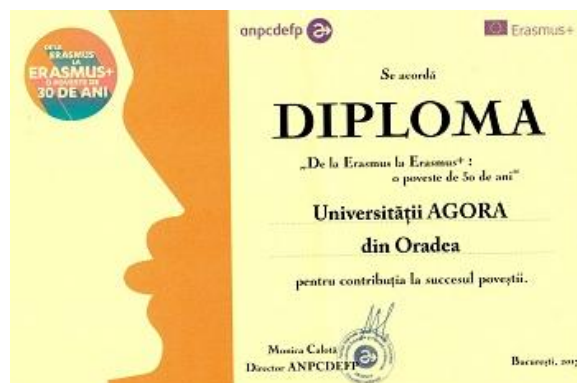
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Moodle-Universitatea Agora

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Universitatea Agora din Oradea (UAO) este o instituţie de învăţământ superior, de drept privat şi utilitate publică, înfiinţată/ **acreditată prin Legea 59/2012**. A fost fondată în 2000 de **prof.univ.dr.ing. Mişu-Jan Manolescu** (rector fondator al universităţii, în prezent fiind **preşedintele CA**) şi **prof.univ.dr. Adriana Manolescu** (decan fondator al Facultăţii de Drept şi Ştiinţe Economice, în prezent fiind **preşedintele Senatului UAO**).

„Fiind o *universitate tânără*, centrată pe educaţie şi cercetare ştiinţifică în domeniul ştiinţelor sociale, Universitatea Agora îşi asumă misiunea să transmită studenţilor săi spiritul Agorei, bazat pe valorile democraţiei şi umanismului transdisciplinar, spirit pe care absolvenţii, la rândul lor, să-l propage mai departe în societate. Pornind de la acumulările prezente şi valorificarea potenţialului intern, cu deschidere spre colaborări externe, Universitatea Agora îşi propune ca, într-un timp rezonabil, să adauge valori noi cunoaşterii umane, prin promovarea şi încurajarea cercetării, tinzând în viitor spre o misiune de *educaţie* şi *cercetare ştiinţifică*, astfel încât să devină recunoscută în mediul academic românesc şi european ca un model eficient al accesului la succes într-o societate dinamică." (Extras din Carta 2015: Misiunea Universităţii Agora).

Conducerea executivă pentru legislatura 2016-2020:

Rector:	Prorector:	Cancelar:	Decan FSJA:	Decan FSE	Director DSS
Prof.univ.dr.	Conf.univ.dr.	Lect.univ.dr.	Prof.univ.dr.	Conf.univ.dr.	Conf.univ.dr.
Ioan Dziţac	**Gabriela Bologa**	**Radu Florian**	**Elena Iancu**	**Casian Butaci**	**Alina Manolescu**

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Rector, **prof.univ.dr. Ioan Dziţac**

Înregistrare în platforma Moodle (cont pentru studenţii din anul I):

Prof. Ioan Dzitac at 65 Years

Prof. Ioan Dzitac, PhD

Born: February 14, 1953, Poienile de sub Munte, Maramures, Romania

Bachelor/eq. Master in Mathematics at Babes-Bolyai Univ. Cluj Napoca (1977)

PhD in Information Sciences at Babes-Bolyai Univ. Cluj Napoca (2002)
Rector of Agora University (2012-2016; 2016-2020)

Founder and General Chair of International Conference on Computers Communications and Control

Founder and Editor in Chief of International Journal of Computers Communications and Control

Included in the Top of the 100 Romanian Theoretical Computer Scientists in the last 100 years (Romania and Republic of Moldova, 1918-2018)

100 Romanian
Theoretical Computer Scientists

Edited by

Svetlana COJOCARU
Chişinău
Corresponding Member of the Academy of Sciences of Moldova

Acad. Gheorghe PĂUN
Curtea de Argeş

Prof. Dragoş VAIDA
Bucharest

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93. Ţâmbulea, Leon
94. Ţiplea, Ferucio Laurenţiu
95. Ţuţu, Ionuţ
96. Vaida, Dragoş Alexandru
97. Văduva, Ion
98. Verlan, Sergey
99. Zaharie, Daniela
100. Zimand, Marius

26. DZIŢAC, Ioan

Born on February 14, 1953, in Poieni de sub Munte, Maramureş, Romania.

Education: "Babeş-Bolyai" University of Cluj-Napoca (1972–1977), Bachelor/eq. Master in Mathematics (1977).

PhD in informatics at "Babeş-Bolyai" University of Cluj-Napoca, 2002. Thesis title: *Parallel and Distributed Methods for Some Operator Equations Resolution.* Scientific advisor: Grigor Moldovan.

Positions: Mathematics teacher in Oradea, Bihor County (1977–1991); Lecturer at University of Oradea (1991–2003); Associate professor at University of Oradea (2003–2005); Associate professor at "Agora" University of Oradea (2005–2009); Adjunct professor at University of Chinese Academy of Sciences, Beijing (2013–2016); Full professor at "Aurel Vlaicu" University of Arad (2009–2018).

Research areas: Parallel and distributed computing, information systems, computational intelligence, artificial intelligence, soft computing, e-learning, applications of fuzzy logic in technology and economy.

Main results:

In my PhD thesis there are mathematical and computer science contributions related to parallel and distributed computing: an original synthesis of taxonomy of parallel architectures); computing methods of parallel fixed points in $\boldsymbol{R}^n$ (parallelization of classical algorithms, new proofs of some fixed point theorems, the introduction of randomized filtered asynchronous iterations method – RFAIM); systems of algebraic equations (parallelization of classical algorithms for solving nonlinear algebraic equations and comparative studies with RFAIM); ordinary algebraic equations (the most efficient parallel methods for solving the polynomial equations of higher grade).

In the fuzzy theory and applications area are established some properties of fuzzy quasi-pseudo-metric spaces. An important result is that any partial ordering can be defined by a fuzzy quasi-metric, which can be applied both in theoretical computer science and in information theory, where it is usual to work with sequences of objects of increasing information. Also are obtained decomposition theorems of a fuzzy quasi-pseudo metric into a right continuous and ascending family of quasi-pseudometrics.

I have also introduced (in a joint paper with S. Nadaban) the concept of atomic decomposition of fuzzy normed linear spaces, which play a key role in the development of fuzzy wavelet theory. We obtained decomposition theorems for fuzzy norms into a family of semi-norms, within more general settings. The results hold both for Bag-Samanta fuzzy norms and for Katsaras fuzzy norms. As a consequence, locally convex topologies induced by these types of fuzzy norms are obtained.

Together with B. Stanojevic and S. Dziţac, I have proposed a new approach to solving the full fuzzy linear fractional programming problem, which leads to good decisions in certain problems where the goals may be modelled by linear fractional functions under linear constraints, and when only vague data are available.

Administrative positions: Director of Math & Informatics Department at University of Oradea (2004–2005). Head of IT Chair at "Agora" University (2005–2008). Director of R&D Center at "Aurel Vlaicu" University of Arad (2009–2017). Rector of "Agora" University (2012–2020).

Editorial boards:
International Journal of Computers Communications & Control (IJCCC; Oradea, Romania; founder and editor-in-chief), *Financial Innovation* (Springer), *Journal of System and Management Sciences* (Beijing Jiatong University, China), *Broad Research in Artificial Intelligence and Neuroscience* (Romania), *Mathematics, Informatics, Physics Series – Bulletin of PG University of Ploiesti, Theory and Applications in Mathematics and Computer Science* (Arad, Romania; associate editor), *Scientific and Technical Bulletin, Series: Electrotechnics, Electronics, Automatic Control and Computer Science* (Arad, Romania), *Journal of Systemics, Cybernetics and Informatics* (The International Institute of Informatics and Systemics, USA), *Business, Management and Education* (Vilnius Gediminas Technical University, Lithuania), *Baltic Journal of Modern Computing.*

Membership to professional organizations:
The International Academy of Information Technology and Quantitative Management – in Board (since 2014).
IEEE Senior Member (since 2011).
IEEE Computational Intelligence Society Member (since 2011).
ROMAI: Romanian Society of Applied and industrial Mathematics (Member since 1995; vice-president: 1996–2011).
SRAIT – Romanian Society of Automation and Applied Informatics – Arad branch (secretary: 2010–2014)
RNG–ISCB: Romanian National Group of International Society for Clinical Biostatistics (since 2007).
SSMAR – Scientific Society of Management from Romania (since 2010).
Advisory Board Member at Graduate School of Management of Technology, Hoseo University, Asan, South Korea (since 2016).

Honors, prizes, scientific distinctions:
Diploma of Excellence for Research, Senate of "Aurel Vlaicu" University of Arad, 2015 and 2016.
Certificate of Excellence for software – the Senate of "Aurel Vlaicu" University of Arad, 2010.
Diploma "Teacher of the Year 2008" – Senate of University "Agora", Oradea.
Diploma of Excellence – Economic Faculty Association in Romania (AFER).
Popularity Award for his work entitled "A Distributed Database for Generating Benchmark Test Informatics" presented at the *NVIC*, 2006, Bucharest, 2006.
Prize ROMAI – Romanian Society of Applied and Industrial Mathematics 2003.
The title "Professor highlighted" granted by Ministry of Education, 1988.

Books:
1. Parallel Computing, Ed. Univ. Oradea, 2001 (397 pages, in Romanian).
2. Parallel and Distributed Methods for Algebraic Systems Resolution, CCC Publications, 2006 (150 pages).
3. Artificial Intelligence, Ed. Univ. "Aurel Vlaicu", Arad, 2008 (182 pages, in Romanian).
4. (with L.A. Zadeh, D. Tufiş, F.G. Filip) *From Natural Language to Soft Computing: New Paradigms in Artificial Intelligence*, The Publ. House of the Romanian Academy, Bucharest, 2008 (268 pages).

Representative articles:
1. (with F.G. Filip, M.J. Manolescu) Fuzzy Logic Is Not Fuzzy: World-Renowned Computer Scientist Lotfi A. Zadeh, *International Journal of Computers Communications & Control,* 12, 6 (2917), 748–789.

2. (with S. Nadaban) Some Properties and Applications of FuzzyQuasi–Pseudo-Metric Spaces, *Informatica,* 27, 1 (2016), 141–15.

3. (with B. Stanojevic, S. Dziţac) On the Ratio of Fuzzy Numbers Exact Membership Function Computation and Applications to Decision Making, *Technological and Economic Development of Economy,* 21, 5 (2015), 815–832.

4. The Fuzzification of Classical Structures: A General View, *International Journal of Computers Communications & Control,* 10, 6 (2015), 775–793.

5. (with S. Nadaban) Atomic Decompositions of Fuzzy Normed Linear Spaces for Wavelet Applications, *Informatica,* 25, 4 (2014), 643–662.

6. (with T. Vesselenyi, R.C. Tarca) Identification of ERD Using Fuzzy Inference Systems for Brain-Computer Interface, *International Journal of Computers Communications & Control, Special Issue on Fuzzy Sets and Systems,* 6, 3 (2011), 403–417.

7. (with D.C. Secui, S. Dziţac, G.V. Bendea) An ACO Algorithm for Optimal Capacitor Banks Placement in Power Distribution Networks, *Studies in Informatics and Control,* 18, 4 (2009), 305–314.

8. (with B.E. Bărbat) Artificial Intelligence + Distributed Systems = Agents, *International Journal of Computers Communications & Control,* 4, 1 (2009), 17–26.

9. (with I. Moisil) Advanced AI Techniques for Web Mining, *Proc. of MAMECTIS* '08, 2008, 343–346.

10. (with T. Vesselenyi, S. Dziţac, M.-J. Manolescu) Fuzzy and Neural Controllers for a Pneumatic Actuator, *International Journal of Computers Communications & Control,* 2, 4 (2007), 375–387.
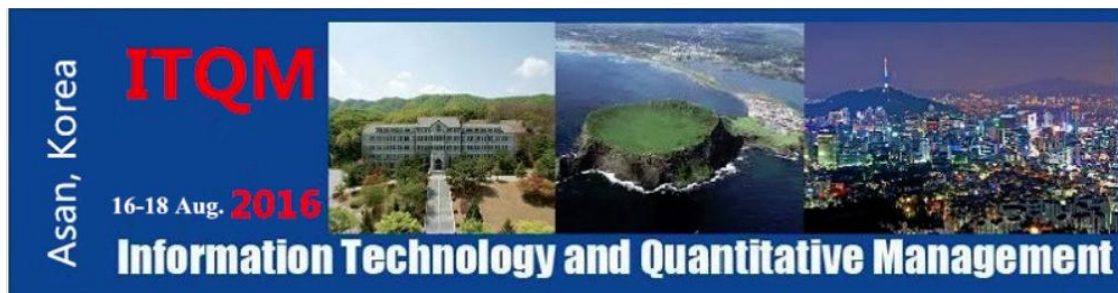
Further information:
– Invited talks at many universities from Europe, China, India, South Koreea.
– Initiator of Computer science courses and master programs (parallel computing, didactics of information, distributed systems, etc.) at universities from Oradea and Arad.
– Founder of the *International Conference on Computers Communications and Control* at University "Agora" of Oradea (2006).
– Founder of the *International Journal of Computers Communications & Control* at University "Agora" of Oradea(2006).

Personal web page: http://dzitac.ro/en/ioan

Ioan Dzitac & Lotfi A. Zadeh at ICCCC2008 (Oradea, Romania)

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Tutorial Speakers:

- Ioan Dzitac, Professor, Aurel Vlaicu University of Arad & Rector of Agora University of Oradea, Romania

- Milan Stanojevic, Professor, Faculty of Organizational Sciences; Bogdana Stanojevic, Researcher, Mathematical Institute of the Serbian Academy of Sciences and Arts

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From Fuzzy Logic to Soft Computing: New Paradigms in Decision Making

Ioan Dzitac
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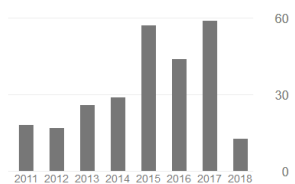Verified email at uav.ro - Homepage
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E-learning platforms in higher education. Case study D Benta, G Bologa, I Dzitac Procedia Computer Science 31, 1170-1176	41	2014
Artificial intelligence+ distributed systems= agents I Dzitac, BE Bogdan	41	2009

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Fuzzy Logic Is Not Fuzzy: World-renowned Computer Scientist Lotfi A. Zadeh

Ioan Dzitac, Florin Gheorghe Filip, Misu-Jan Manolescu

Abstract

In 1965 Lotfi A. Zadeh published "Fuzzy Sets", his pioneering and controversial paper, that now reaches almost 100,000 citations. All Zadeh's papers were cited over 185,000 times. Starting from the ideas presented in that paper, Zadeh founded later the Fuzzy Logic theory, that proved to have useful applications, from consumer to industrial intelligent products. We are presenting general aspects of Zadeh's contributions to the development of Soft Computing(SC) and