

WELCOME TO THE VIRTUAL ICCCC 2020!

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ICCCC2020



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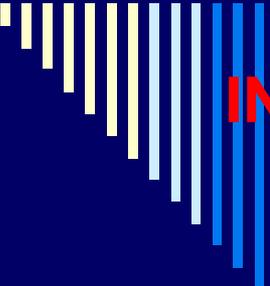
[A+](#) [a-](#) [P](#) [L](#)



2020 8th International Conference on Computers Communications and Control (ICCCC)

Agora University of Oradea: Blue Aula
Ready for Official Opening of ICCCC2020
Unfortunately is **EMPTY** ☹️





INSTITUTIONAL ORGANIZER OF ICCCC 2020

CERCETARE DEZVOLTARE AGORA/

Research & Development Center of Agora University
(Ioan DZITAC & Misu - Jan MANOLESCU – administrators,
and Simona DZITAC – economic manager),
under the aegis of the Romanian Academy - Information
Science and Technology Section (President: Florin FILIP).



**Abstracts of ICCCC Papers, ISSN/ ISSN-L 1844-4334,
Agora University Press, 2010**

ZOOM PRO

On site event has been canceled due to corona virus COVID - 19.

ICCCC2020 will be held online instead of in person!

ICCCC2020 (May 11-15): For the first time in our organizational portfolio, after seven editions face-to-face, is time for the online meeting, via Zoom Pro, with our colleagues from Chile, China, Colombia, France, Greece, India, Israel, Italy, Japan, Lithuania, Mexico, Poland, Romania, Russia, Serbia, Switzerland, UK, and USA.

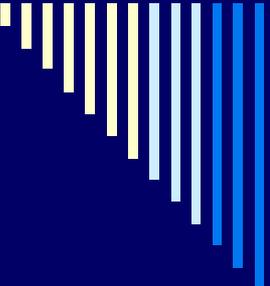


UNIVAGORA.RO

Program - Agora University of Oradea

The web site of the Agora University of Oradea,
Romania.

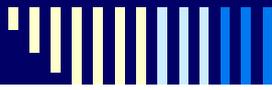
<http://univagora.ro/en/icccc2020/program/>



PROGRAM
AT
A
GLANCE

v. 1004 - Bucharest, 10-15 May 2023, Politehnica University of Bucharest, Romania, 1-2023

Day	GMT Hours	Bucharest Hours	Activity	Speakers
Monday, May 11	14:00- 16:00	17:00- 19:00	Connection with Zoom Pro/ Official opening Break/Surprise	Ioan DZITAC (General Chair) Misu-Jan MANOLESCU (Chair) Florin Gheorghe FILIP (PC Chair) Domnica DZITAC (Virtual Chair) Simona DZITAC (Chair)
Tuesday, May 12	11:00- 13:00	14:00- 16:00	Regular papers <i>Chairperson: Alfred BRUCKSTEIN</i> Break/Surprise	Chapter 1. <i>Integrated solutions in computer-based control and communications</i> (ID 10, 12, 21, 35, 38, 53)
	14:00- 16:30	17:00- 19:30	Keynote lectures <i>Chairperson: Janusz KACPRZYK</i>	Alfred BRUCKSTEIN Valeriu BEIU Yezid DONOSO
Wednesday, May 13	11:00- 13:00	14:00- 16:00	Regular papers <i>Chairperson: Gintautas DZEMYDA</i> <i>Chairperson: Ioan DZITAC</i> Break/Surprise	Chapter 2. <i>Computational intelligence methods</i> (ID 6, 11, 54) Chapter 3. <i>Fuzzy methods and soft computing</i> (ID 44, 50, 61, 64)
	14:00- 16:30	17:00- 19:30	Keynote lectures <i>Chairperson: Florin Gheorghe FILIP</i>	Janusz KACPRZYK Gintautas DZEMYDA Razvan ANDONIE
Thursday, May 14	11:00- 13:00	14:00- 16:00	Regular papers <i>Chairperson: Enrique HERRERA-VIDEVA</i> Break/Surprise	Chapter 4. <i>Decision making issues. Methods and support systems</i> (ID 18, 36, 37, 42, 51, 62)
	14:00- 15:40	17:00- 18:40	Keynote lectures <i>Chairperson: Yezid DONOSO</i>	Enrique HERERRA-VIDEVA Felisa CORDOVA
Friday, May 15	11:00- 13:00	14:00- 16:00	Regular papers <i>Chairperson: Valeriu BEIU</i> Break/Surprise	Chapter 5. <i>Theory for Computing, Control and Communication Systems</i> (ID 14, 15, 16, 22, 28, 31, 52, 57)
	14:00- 16:00	17:00- 19:00	Official Closing Surprise	Ioan DZITAC (General Chair) Misu-Jan MANOLESCU (Chair) Florin Gheorghe FILIP (PC Chair) Domnica DZITAC (Virtual Chair) Simona DZITAC (Chair)



AGENDA

Dedication: This edition is dedicated to the:

- **100th** anniversary of [Isaac Asimov \(1920-1992\)](#);
- **20th** anniversary of [Agora University of Oradea](#);
- **15th** anniversary of [International Journal of Computers Communications & Control](#);
- **10th** commemoration since [Acad. Mihai Drăgănescu](#)(1929-2010) passed away.

- **Previous editions in images: 2004, 2006, 2008, 2010, 2012, 2016, 2018**
- **Keynote speakers at ICCCC2020**

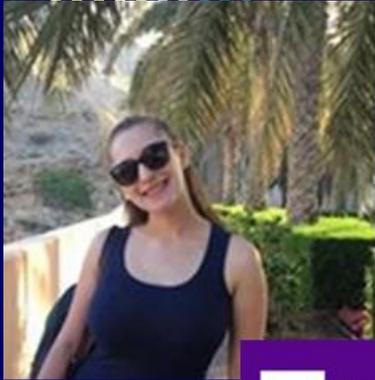
First dedication:
100th anniversary of Isaac Asimov (1920-1992);
Presented by Domnica Dzitac
New York University Abu Dhabi, UAE

The Isaac Asimov Centennial Year¶



January 2, 2020 is the one hundredth anniversary of Isaac Asimov's birth. In this centennial year, I hope to update and modernize Asimov Online, which has been neglected for far too long. You can expect new content, including information about all of the editions of his books, a greatly expanded bibliography, with details about all of his fiction and nonfiction essays, and much, much more.¶

"Whereas the second week in April each year is designated as 'National Robotics Week', recognizing the accomplishments of Isaac Asimov, who immigrated to America, taught science, wrote science books for children and



Domnica Dzitac

Studied, lived and traveled in many countries, currently studying at New York University Abu Dhabi. Experience with C++, Python, algorithms, data structures.

Software Engineer Abu Dhabi New York University '21 [in](#) [f](#)



NYU

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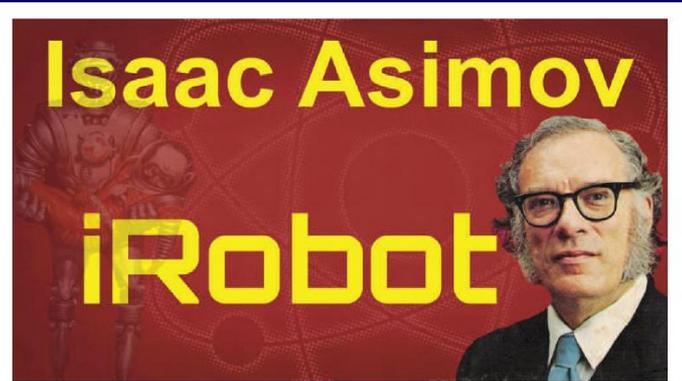
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Search





In 1950, Asimov published a book of his previously printed short stories called „I, Robot”, pondering about the ethics of building intelligent machines as well as the expectations to come out of it. In this book he proposed The three laws of Robotics.

These laws should be governing robots behavior according to Asimov:

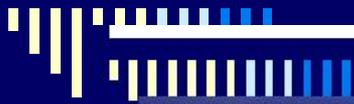
- "1. A robot may not injure a human being or, through inaction, allow a human being to come to harm.**
- 2. A robot must obey orders given to it by human beings except where such orders would conflict with the First Law.**
- 3. A robot must protect its own existence as long as such protection does not conflict with the First or Second Law."**

Second dedication: 20 years of Agora

Presented by Misu-Jan Manolescu

20

The image shows a screenshot of the Agora University website. At the top, it reads "AGORA UNIVERSITY" and "Higher education institution, legal person under private law and public utility". Below this are the Romanian flag, the university's logo with the motto "IN HIC SIGNO VINCES", and the European Union flag. The main navigation bar includes links for "University", "Academic", "Students", "Bachelor", "Master", "Conferences", and "Research". A search bar is also present. Below the navigation bar is a large photograph of the university's main building. Underneath the photo, the text reads "20 YEARS OF PRIVATE EDUCATION IN ORADEA ~2000 – 2020~". At the bottom, it says "AGORA 20" and "AGORA UNIVERSITY OF ORADEA IS ACREDITED BY Agenția Română de Asigurare a Calității în Învățământul Superior".



AGORA UNIVERSITY
OF ORADEA, ROMANIA

Founders of Agora University:
Prof. Misu-Jan Manolescu &
Prof. Adriana Manolescu (2000)

Search
Romana English
Contact Site map

University Academic Students Bachelor Master Conferences Research Quality



Lectures at Southeastern University, Lakeland, Florida, USA

RECTORS OF AGORA UNIVERSITY

Ioan Dzitac: 2012-2016; 2016-2020

Misu-Jan Manolescu: 2000-2012; 2020-2024





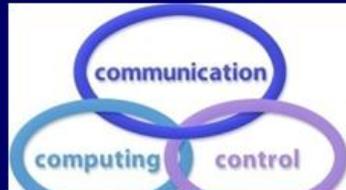
Dr. Eng. MISU-JAN MANOLESCU, OC Chair professor of management at Agora University



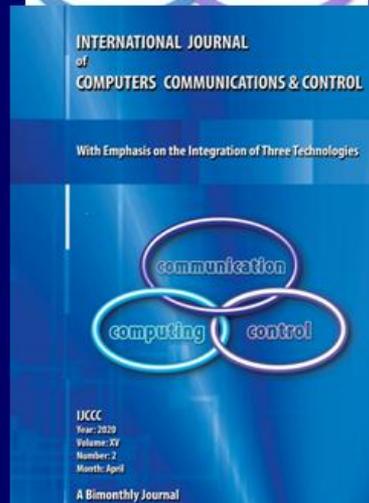
President of Agora University (since 2012)

Founder Rector of Agora University (2000-2012)

Rector of Agora University (2020-2024)



Co-founder of ICCCC (since 2006)



Co-founder and

Managing Editor of IJCCC (since 2006)

Bad news: unfortunately, **Mr. Rector Manolescu** suddenly became ill 🙄
Good news: fortunately, it's just a toothache, not Covid -19 😊
He delegated **Professor Viorina Judeu** to represent him.



3th dedication: 15 years of IJCCC Presented by Ioan Dzitac

IJCCC- founded 15 years ago
Expected Impact Factor in
JCR2019 > 2

The IJCCC was considered in 2015 by Elsevier as No. 1 in Romania in the field of Computer Science-Information Systems and was nominated for the Scopus Awards 2015.
Elsevier: How do you feel about being nominated for Scopus Awards 2015?: [Interview Elsevier - Editor in Chief](#)



Web of Science





Dr. IOAN DZITAC, General Chair,
Professor of AI at Aurel Vlaicu University of Arad,
Professor of IT Agora University of Oradea
PhD supervisor at University of Craiova
Former rector of Agora University of Oradea
(2012-2016); (2016- May 02,2020)

Elsevier: Interview with Ioan Dzitac - nomination of IJCCC...

Written on Nov. 1, 2015.

International Journal of Computers Communication & Control

Interview with editor-in-chief [Ioan Dzitac](#)

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

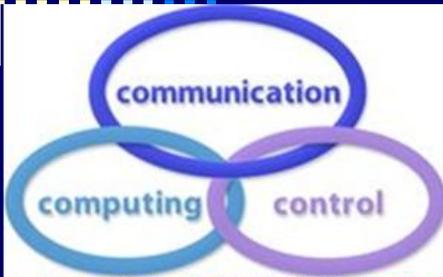
Editor-in-Chief Ioan Dzitac:

The whole team is honored by the nomination which we believe is an acknowledgement of all the hard work



Founders of ICCCC & IJCCC (2006):

I. Dzitac , F.G. Filip, M.J. Manolescu



CCC Publications



C O P E

Member since 2012
JM08090

INTERNATIONAL JOURNAL
of
COMPUTERS COMMUNICATIONS & CONTROL

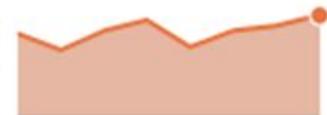
With Emphasis on the Integration of Three Technologies

International Journal of
Computers,...

Q2

Computer
Networks and
Communications
best quartile

SJR 2018
0.37



powered by scimagojr.com

Web of Science

INTERNATIONAL JOURNAL OF COMPUTERS COMMUNICATIONS & CONTROL

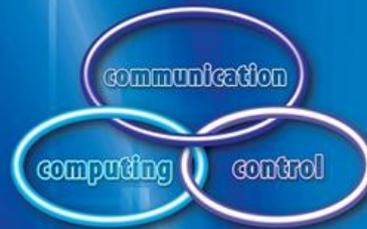
Impact Factor
1.585 1.361
2018 5 year

JCR # Category	Rank in Category
AUTOMATION & CONTROL SYSTEMS	38 of 62
COMPUTER SCIENCE, INFORMATION SYSTEMS	108 of 155

Data from the 2018 edition of [Journal Citation Reports](#)

Publisher
CCC PUBL-AGORA UNIV, PIATA TINERETULUI 8, ORADEA, JUD, BIHOAR

ISSN: 1841-9836
eISSN: 1841-9844



IJCCC
Year: 2020
Volume: XV
Number: 3
Month: June



A Bimonthly Journal

Web of Science

Search Search Results

Tools Search

Citation report for **1,030** results from Web of Science Core Collection between 1975 and 2020

You searched for: PUBLICATION NAME: (INT J COMPUT COMMUN) ...[More](#)

This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed.

Total Publications



1,030 Analyze



2001

2020

h-index



29

Average citations per item

4.65

Sum of Times Cited



4,787

Without self citations

4,145

CiteScoreTracker 2019

Last updated on 09 April, 2020

Updated monthly

2.24

$$= \frac{\text{Citation Count 2019}}{\text{Documents 2016 - 2018}} = \frac{406 \text{ Citations to date} \gt}{181 \text{ Documents to date} \gt}$$

Scopus

4th dedication:

"10th commemoration since Acad. M. Drăgănescu (1929-2010) passed away.
Mihai Drăgănescu and The Birth of the Romanian ICT Sector"
Presented by Florin Gheorghe Filip

10



AI RESEARCH INSTITUTE FOR ARTIFICIAL INTELLIGENCE "MIHAI DRĂGĂNESCU", ROMANIAN ACADEMY

ABOUT ICIA ▾ RESEARCH ACTIVITIES ▾ PUBLICAȚII LATEST NEWS

Mihai Drăgănescu (1929-2010)



[About Acad. Mihai Drăgănescu](#) [Curriculum Vitae](#) [Categories and Functors for the Integrative Science](#)

[E-prints: Internet books](#) [Mind and Consciousness](#) [Science and Technology of Information](#)

[Information Society – Knowledge Society](#) [Consciousness Society](#) [History of the Science and Technology](#)

About Acad. Mihai Drăgănescu



WELCOME IPC Chair

Acad. Florin Gheorghe FILIP

**Full Member of the Romanian Academy
Member of the Presidium of the Romanian Academy
President of the Section for the Science and
Technology of Information
Former Director of Library of Romanian Academy
Past Vice-President of Romanian Academy (2000-2010)**

Editor in Chief of two ISI journals:

- Studies in Informatics and Control (ICI Bucharest)**
- International Journal of Computers, Communication & Control (Agora Univ.)**

Co-founder of ICCCC and IJCCC (2006)

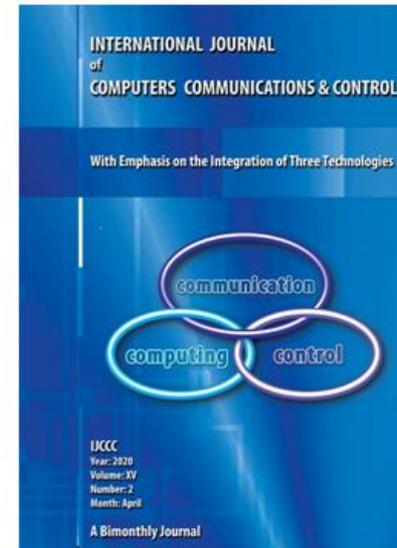
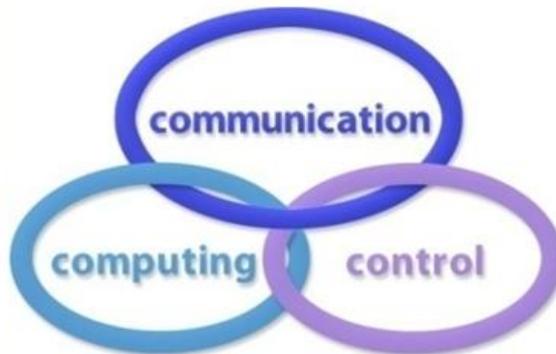
Dr.H.C. of Agora University (2012)

PREVIOUS EDITIONS

OC Co- Chair: Associate Professor Simona Dzitac, PhD



Member in Editorial Board of IJCCC



2. Simona DZITAC

Researcher at R&D Agora, rd.agora@univagora.ro, simona@dzitac.ro

Dr. Simona Dzitac is an Associate Professor at Energy Engineering Department, Faculty of Energy Engineering and Industrial Management, University of Oradea, Romania. She received her B.Sc. in Mathematics (2000), Energy Engineering (2005), Economic Informatics (2007) and PhD in Energy Engineering (2008). Her current research interests include different aspects of reliability, modelling, simulation, quality management, IT management. She has published 11 books/courses and materials for students and more than 80 scientific papers in journals and conferences proceedings. Her research activity includes participation in 30 grants/projects. The impact of her published works are over 60 citations and h-index 5 in ISI Web of Science,

Dr. Ioan Dzitac
Founder &
-General Chair-

Pre - ICCCC: ICC2004
-Keynote speakers-



Acad. Paul Dan Cristea
Romania



Acad. Gheorghe Paun
Romania



Acad. H.-N. Teodorescu
Romania



Domnica Dzitac
-Mascot of ICCCC-



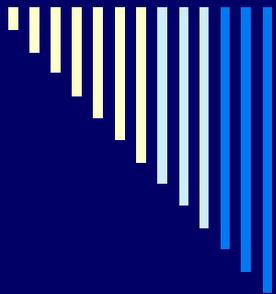
Prof. A. Willi Petersen
Germany



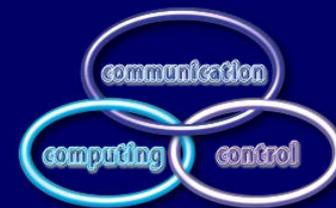
Prof. Antonio di Nola
Italy



Prof. Athanasios Styliadis
Greece



ICCCC 2006



Felix Spa, June 1-3
Organized by Agora University
under aegis of IEEE Romania Section



J. Fodor, K. Hirota, D. Tufis, P. Filip, M.J. Manolescu, I. Dzitac, A. Iorgulescu, A. Styliadis

ICCCC 2008



Felix Spa, May 15-17

Organized by Agora University under aegis of
Romanian Academy and IEEE Romania Section

With an exceptional participation of Lotfi A. Zadeh (1921-2017)
The father of Fuzzy Sets and Fuzzy Logic (more 195.000 citations!!!)



D. Tufis, I. Dzitac, L.A. Zadeh, M.J. Manolescu, F.G. Filip

ISBN: 978-973-27-1678-6



**From Natural Language to Soft Computing:
New Paradigms in Artificial Intelligence**

Lotfi A. Zadeh
Dan Tufiş
Florin Gheorghe Filip
Ioan Dzitac (Eds.)

Exploratory Workshop on ML-Computation
Băile Felix; Oradea, Romania, May 15-17, 2008

$X = \{ \text{blue cubes} \}$
 $\in X$
 $\in X$
 $\notin X$



**From Natural Language to Soft Computing:
New Paradigms in Artificial Intelligence**



Lotfi A. Zadeh
Dan Tufiş
Florin Gheorghe Filip
Ioan Dzitac (Eds.)

Cover Design:
Marcel Sujan / robidegrauo

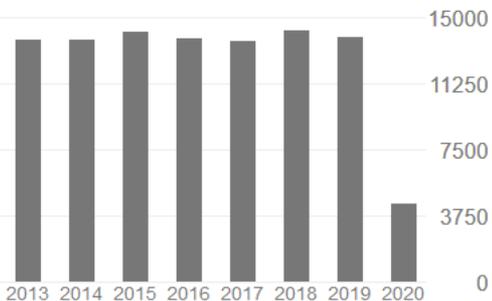
Fuzzy Logic Is Not Fuzzy: World-renowned Computer Scientist Lotfi A. Zadeh

I. Dzitac, F.G. Filip, M.J. Manolescu

Cited by

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	All	Since 2015
Citations	240348	74196
h-index	112	62
i10-index	379	183



Lotfi A. Zadeh (1921-2017)

**Former Member in
Editorial Board of IJCCC
and Keynote speaker
at ICCCC2008**

Epidemiologic context is a fuzzy/nondeterministic environment: ambiguous data, noisy, imprecise, uncertainty etc.

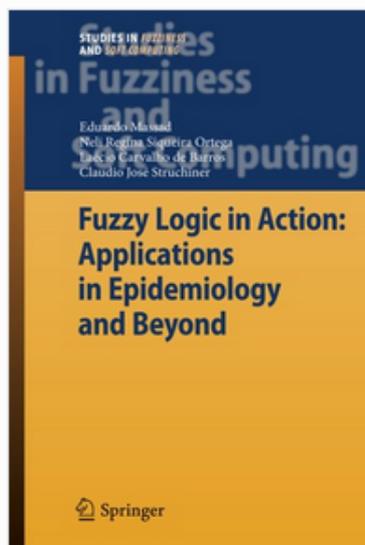
778

I. Dzitac, F.G. Filip, M.J. Manolescu

Table 1: Hard Computing vs. Soft Computing

Hard Computing	Soft Computing
<i>Deterministic</i> environment (closed, static, known)	<i>Nondeterministic</i> environment (open, dynamic, uncertain)
Well-defined <i>problem</i> (quantity, precision, certainty)	Fuzzy-defined <i>Situation</i> (quality, imprecision, uncertainty)
<i>Solving</i> accurately problems (imperative, firm, reliable)	<i>Managing</i> "Just In Time" situations (descriptive, flexible, robust)
Optimal, lasting, <i>solution</i> (algorithmic, apodictic, general)	Suboptimal, temporary, <i>answer</i> (non-algorithmic, revisable, local)
<i>Technocentric</i> design Software entity: <i>PROGRAM</i> (object devised as tool)	<i>Anthropocentric</i> design Software entity: <i>AGENT</i> (process devised as interactant)
<i>Client-Server</i> paradigm (object-oriented, sequential)	" <i>Computing as Interaction</i> " paradigm (agent-oriented, parallel)

Soft Computing can deal with ambiguous or noisy data and is tolerant of imprecision, uncertainty, partial truth, and approximation. In effect, the role model for SC is the human mind. Artificial Intelligence and Computational Intelligence based on SC provide the background for



Fuzzy Logic in Action: Applications in Epidemiology and Beyond

Authors

Eduardo Massad, Neli Regina Siqueira Ortega, Laécio Carvalho de Barros,

Claudio José Struchiner

Book

28

Citations

1

Mentions

13k

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Part of the [Studies in Fuzziness and Soft Computing](#) book series (STUDFUZZ, volume 232)

Fuzzy Logic Inference System for Identification and Prevention of Coronavirus (COVID-19)

Nitish Dhiman, M.K. Sharma

Abstract: Now a days Novel Coronavirus named COVID-19 becomes major health concern causing severe health issue in human beings and it becomes a pandemic. It's a kind of zoonotic that means it can transmit animals to humans. It may spread via polluted hands or metals. No specific treatment is available so far for COVID-19, so initial identification and preventions for COVID-19 will be crucial to control or to break down the chain of COVID-19. For this purpose, we have proposed a fuzzy inference system to diagnose the COVID-19 disease by taking six input factor like as; Ethanol, Atmospheric Temperature (AT), Body Temperature (BT), Breath Shortness (BS), Cough and Cold and the output factor has divided into three linguistic categories which denotes the severity level of the infected patients.

Keywords: Coronavirus (COVID-19), Gaussian Membership Function, Fuzzy Inference System, Medical Diagnosis

symptoms like; cough, fever, breathing difficulties and it may cause pneumonia and kidney failure or patient may death, in some cases patient might show no symptoms at all. According to the study of the Centers for Disease Control and Prevention (CDC) [6] these symptoms usually appear between two days and two weeks of exposure to the virus. Journal of the American Medical Association reports say that out of all COVID-19 patients 11-44% has fatigue, 76-82% has coughed and 98% have a fever. The severity level of the disease increases in the human of age between 28 to 85 years-old. Currently more than fifteen Italian citizens cases test have been found positive in India by March 2020. Present research paper has been divided into five sections; in the second section, we have shown the effects of COVID-19 in different types of metal. In the third section of the

Invited at ICCCC2008 and on Editorial Board of IJCCC

EDITORIAL TEAM

George METAKIDES



George METAKIDES 
<http://www.metakides.net/business.htm>
University of Patras, Greece

Born in Thessaloniki, Greece in 1945, Prof. Metakides received as a Fulbright scholar a Master of Science in Electrical Engineering and Doctor of Philosophy in Mathematical Logic from Cornell University in 1971. He pursued an academic career in the U.S.A. at MIT, Cornell University and Rochester University until 1978, when he returned to Greece to take the Chair of Logic at the University of Patras.

He has published numerous articles and books in the areas of Mathematical Logic, Computer Science and Science Policy and is a frequent invited speaker at major international conferences. He holds honorary doctorates from the University of Newcastle-upon-Tyne, the Technical University of Bucharest and the University of Thessaloniki and is an honorary professor of the University of Moscow. He is a foreign member of the Russian Academy of Natural Sciences and an honorary member of the Romanian Academy of Science. He has received the Medal of Honour of the Bulgarian Academy of Science, the Polish Information Society Recognition Award, for his efforts to build co-operation between IT professionals in Poland and the EU, and the Telecom Europe Prize Salvà I Campillo for his contribution to the development and dissemination of new information and communication technologies in Europe.

Since 1984 he has held senior positions with responsibility for R&D policy, funding and international co-operation in European institutions, including president of the Research Group of the European Council and member of the ESPRIT (European Strategic Programme of Research in Information Technology) Management Committee and of the NATO Science Committee at different times between 1984 and 1987. He established and headed the department for Basic Research and International Scientific Relations in Information Technologies at the European Commission from 1988 to 1993. He was the director of the 2 billion Euro ESPRIT Programme in the European Commission's Industry Directorate General from 1993 until its completion in 1998.

Until November 2002 he was director of Essential Technologies and Infrastructures in Europe's 4 billion Euro Information Society Technologies (IST) Programme (1998-2002), in the Information Society Directorate General which - besides funding and co-ordinating R&D in information and communication technologies in the European Union - also covers information society and telecommunications policy and regulation.

ICCCC 2010



C. Lagos, F.G. Filip, I. Dzitac, M.J. Manolescu, R. Andonie

ICCCC 2012



I. Dzitac, F. Cordova, F.G. Filip, M.J. Manolescu, Y. Shi, G. Kou

ICCCC 2014



I. Dzitac, Y. Shi, F.G. Filip, P. Zarate, M.J. Manolescu, F. Aleskerov, I. Dumitrache



*IEEE - ICCCC2016 6th Internat
Communications and Control*

Keynote and special invited speakers at ICCCC 2016



Prof. Enrique Herrera-Viedma
Spain



Prof. Gang Kou
China



Acad. Gintautas Dzemyda
Lithuania



Prof. Zenonas Turksis
Lithuania



Prof. Ioana Moisil
Romania



Acad. Florin Gheorghe Filip
Romania



2018 7th International Conference
and Control (ICCC)



Prof. Barnabas Bede USA
Spain



Prof. Alfred M. Bruckstein
Israel



Prof. Yezid Donoso
Colombia



Prof. Amlan Chakrabarti
India



Prof. Valeriu Beiu
Romania



Prof. Arturas Kaklauskas
Lithuania



Acad. Gheorghe Paun
Romania

ICCCC 2020



Springer



2004 5 29

8th International Conference on Computers
Communications and Control,
ICCCC 2020
May 11-15, 2020, Oradea, Romania

Organized Online by:
Research & Development Center of Agora University
Agora University of Oradea
Romanian Academy
Association Cluster of Scientific Research, Innovation and European Studies from Oradea



General Chair:
Dr. Ioan Dzitac



Program Committee Chair:
Acad. Florin Gheorghe Filip



Organizing Committee Chairs:
Dr. Misu-Jan Manolescu



Dr. Simona Dzitac

Special Sessions of ICCCC2020:

- Special Session 1: *Integrated solutions in computer-based control and communications*
- Special Session 2: *Computational intelligence methods*
- Special Session 3: *Fuzzy methods and soft computing*
- Special Session 4: *Decision making issues. Methods and support systems*
- Special Session 5: *Theory for Computing, Control and Communication Systems*

Welcome to ICCCC 2020!
Details on the ICCCC 2020 web page: <http://univagora.ro/en/icccc2020/>



Prof. Janusz Kasprzyk
Polish Academy of Sciences



Prof. Enrique Herrera - Viedma
University of Granada, Spain



Acad. Florin Gheorghe Filip
Academia Română, Romania



Prof. Gintautas Dumslis
Vilnius University, Lithuania

Keynote Speakers at ICCCC 2020:



Prof. Kazem ANTONI,
Central Washington University, USA



Dr. Valeriu Boin,
Aurel Vlaicu University of Arad, Romania



Dr. Alifred M. Bruckstein,
Technion - Israel Institute of Technology,
Israel



Prof. Felix Córdova,
University Fines Terrae, Chile

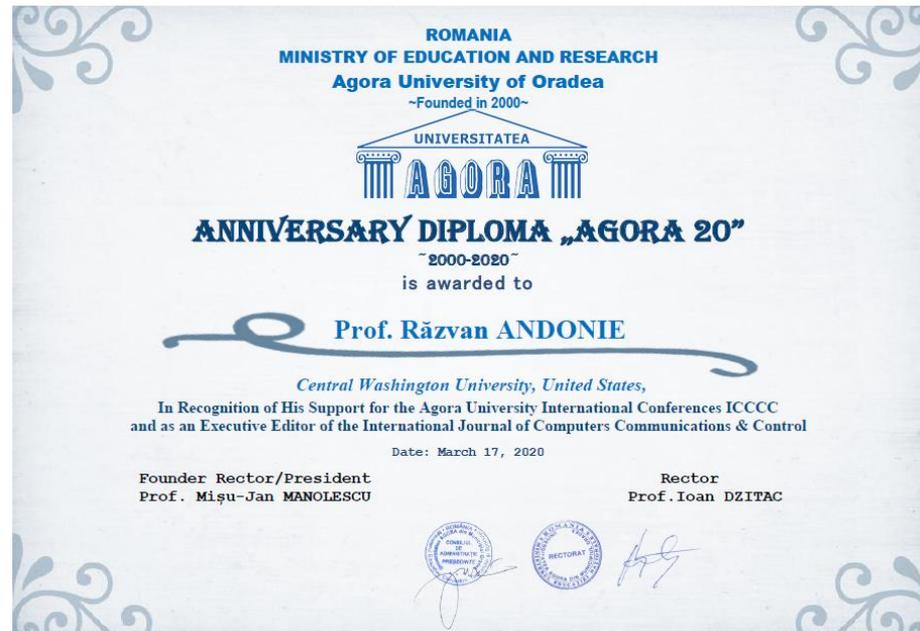


Dr. Vaidh Devesa,
Universidad de los Andes, Bogotá,
Colombia

Welcome! Keynote speakers at ICCCC2020 via Zoom Pro

1. Prof. Razvan ANDONIE

Title of lecture: "Practical Hyperparameter Optimization for Deep Learning"



*Prof. Răzvan ANDONIE, Central Washington University, 400 East University Way, Ellensburg,
WA 98926, USA, Phone: (509) 963-1430, FAX: (509) 963-1449, andonie@cwu.edu*

2. Dr. Valeriu BEIU

Title of lecture: "Land of the Giants ... AI Chips"



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

3. Dr. Alfred M. BRUCKSTEIN

Title of lecture: "Erratic Extremism Leads to Dynamic Consensus"



*Alfred M. Bruckstein, Ollendorff Chair in Science, Technion, IIT, Haifa, Israel,
fredy@cs.technion.ac.il*

4. Prof. Felisa CORDOVA

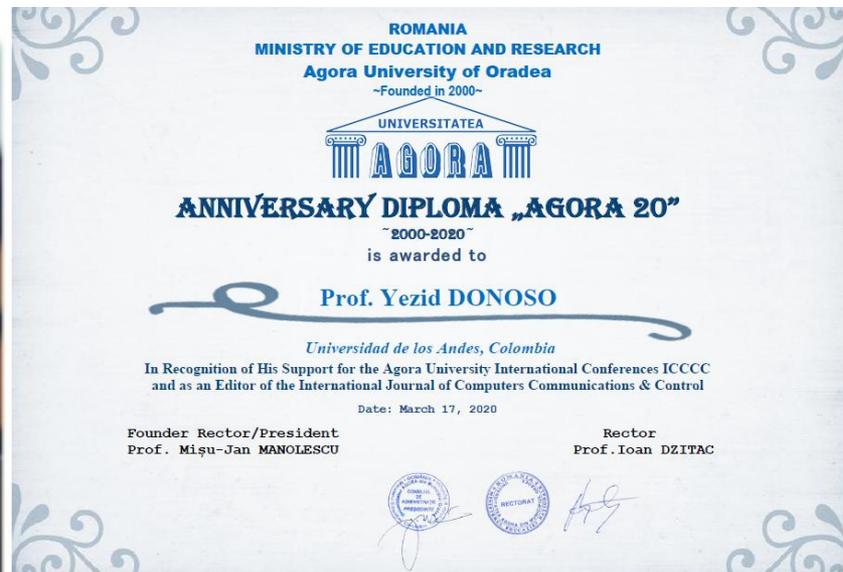
Title of lecture: "Trends and challenges of cyber-social-technological-cognitive approach in ecosystems"



Prof. Felisa Córdova, Director School of Engineering, Faculty of Engineering, University Finis Terrae, Santiago, Chile, fcordova@uft.cl

5. Dr. Yezid DONOSO

Title of lecture: "Methodologies for Solving Complex Multi-Objective Combinatorial Problems in Engineering: An Evolutionary Approach Applied to Computer Networks"



Professor, Academic Vice Director, Head of the Master Program in Information Security Systems and Computing Engineering Department, Universidad de los Andes, Bogotá, Colombia, South America, 57-1-3394949 Ext 1723, ydonoso@uniandes.edu.co

6. Prof. Gintautas DZEMYDA

Title of lecture: "Recent advances in data dimensionality reduction using multidimensional scaling"



Gintautas Dzemyda

Prof. Dr. Habil.

Full member of the Lithuanian Academy of Sciences



7. Prof. Florin Gheorghe FILIP

Title of lecture: "10th commemoration since Acad. M. Draganescu (1929-2010) passed away"



Florin Gheorghe FILIP

President of "Information Science and Technology" Section of Romanian Academy, Romania,
ffilip@acad.ro



8. Prof. Enrique HERERRA - VIEDMA

Title of lecture : "Consensus in Group Decision Making and Social Networks"



[DECSAI - University of Granada, Spain](#)

9. Janusz KACPRZYK

Advances in Intelligent Systems and Computing
(Series Editor; J. Kacprzyk)



Title of lecture : "Decision aid, decision advice, decision support: when, why, for whom"



Professor, Ph.D., D.Sc. Janusz Kacprzyk

Systems Research Institute, Polish Academy of Sciences

Head of Intelligent Systems Laboratory

Studies in Fuzziness and Soft Computing

Studies
in Fuzziness

Shahnaz N. Shahbazova
Michio Sugeno
Janusz Kacprzyk *Editors*

Recent Developments in Fuzzy Logic and Fuzzy Sets

Dedicated to Lotfi A. Zadeh

 Springer

[Recent Developments in Fuzzy Logic and Fuzzy Sets](#) pp 153-174 | [Cite as](#)

Fuzzy Normed Linear Spaces

Authors

[Authors and affiliations](#)

Sorin Nădăban, Simona Dzitac, Ioan Dzitac 

Chapter

First Online: 06 March 2020

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Downloads

Part of the [Studies in Fuzziness and Soft Computing](#) book series (STUDF

Abstract

In this chapter we will present different concepts of fuzzy by various authors from different points of view. Thus, in introduced the notion of fuzzy norm, this being of Minkov convex and absorbing fuzzy set. In 1992, Felbin introduce

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Prof. Janusz Kacprzyk, Systems Research Institute, Polish Academy of Sciences, Ul. Newelska 6, 01-447 Warszawa, Poland

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- Springer (Advances in Intelligent Systems and Computing, Series Editor: Janusz KACPRZYK).





Good luck & Good health, dear participants!
Success ICCCC2020!

Thank you for attention!

Ioan Dzitac,

General Chair of ICCCC2020

NEXT PRESENTATIONS TODAY:

- Acad. Florin Gheorghe Filip (keynote)
- Prof. Ioan Dzitac (surprise)