CALL FOR PAPERS
IEEE - ICCCC 2016

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

Organized by Agora University of Oradea, under the aegis of Romanian Academy: - Information Science and Technology Section.

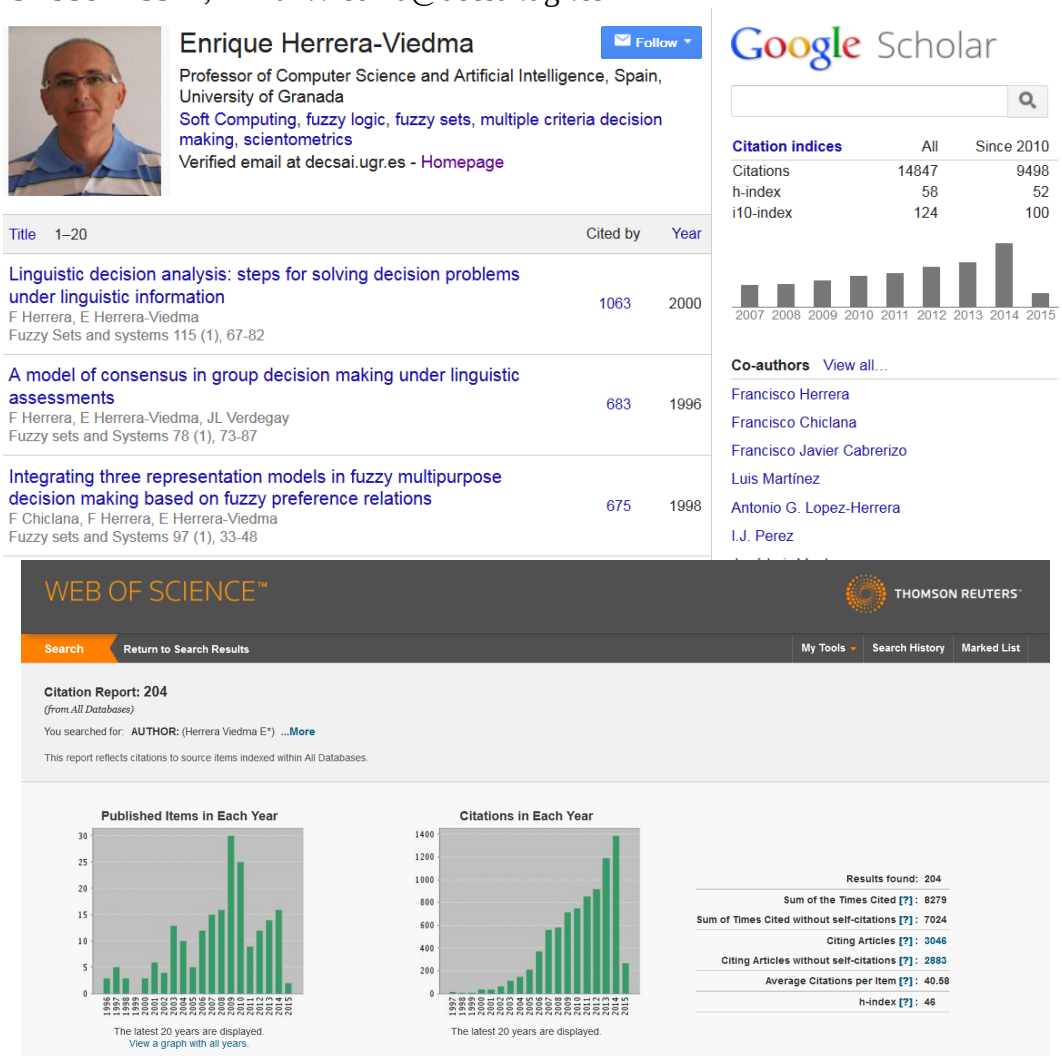
Scope and Topics

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.
The goal of this conference is to bring together international researchers, scientists in academia and industry to present and discuss 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 The Program Committee is soliciting paper describing original, previously unpublished, completed research, not currently under review by another conference or journal, addressing state-of-the-art research and development in all areas related to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.
In particular the following *topics* are expected to be addressed by authors:
1) *Integrated solutions in computer-based control and communications*;
2) *Network Optimization and Security*;
3) *Computational intelligence methods (with particular emphasis on fuzzy logic-based methods, ANN, evolutionary computing, collective/swarm intelligence)*;
4) *Data Mining and Intelligent Knowledge Management*;
5) *Advanced decision support systems with particular emphasis on sustainable energy*;
6) *Membrane Computing - Theory and Aplications*;
7) *Stereovision Based Perception for Autonomous Mobile Systems and Advanced Driving Assistance.*

Keynote Speakers at ICCCC 2016

Prof. Enrique Herrera Viedma,
DECSAI - University of Granada, Spain

Address:
C/ Periodista Daniel Saucedo Aranda, s/n, 18071- Granada, Phone: +34 958 244258, Fax: +34 958 243317, E-mail:viedma@decsai.ugr.es



Enrique Herrera-Viedma

Follow

Professor of Computer Science and Artificial Intelligence, Spain, University of Granada

Soft Computing, fuzzy logic, fuzzy sets, multiple criteria decision making, scientometrics

Verified email at decsai.ugr.es - Homepage

Google Scholar

Title 1–20	Cited by	Year
Linguistic decision analysis: steps for solving decision problems under linguistic information F Herrera, E Herrera-Viedma Fuzzy Sets and systems 115 (1), 67-82	1063	2000
A model of consensus in group decision making under linguistic assessments F Herrera, E Herrera-Viedma, JL Verdegay Fuzzy sets and Systems 78 (1), 73-87	683	1996
Integrating three representation models in fuzzy multipurpose decision making based on fuzzy preference relations F Chiclana, F Herrera, E Herrera-Viedma Fuzzy sets and Systems 97 (1), 33-48	675	1998

Citation indices	All	Since 2010
Citations	14847	9498
h-index	58	52
i10-index	124	100

2007 2008 2009 2010 2011 2012 2013 2014 2015

Co-authors View all...

Francisco Herrera
Francisco Chiclana
Francisco Javier Cabrerizo
Luis Martínez
Antonio G. Lopez-Herrera
I.J. Perez

WEB OF SCIENCE™ THOMSON REUTERS

Search | Return to Search Results | My Tools | Search History | Marked List

Citation Report: 204
(from All Databases)

You searched for: AUTHOR: (Herrera Viedma E*) ...More

This report reflects citations to source items indexed within All Databases.

Published Items in Each Year

The latest 20 years are displayed.
View a graph with all years.

Citations in Each Year

The latest 20 years are displayed.

Results found:	204
Sum of the Times Cited [?]:	8279
Sum of Times Cited without self-citations [?]:	7024
Citing Articles [?]:	3046
Citing Articles without self-citations [?]:	2883
Average Citations per Item [?]:	40.58
h-index [?]:	46

Prof. Zenonas Turskis,
Vilnius Gediminas Technical University, Lithuania

Address: Vilnius Gediminas Technical University, Sauletekio al. 11, LT-2040 Vilnius, Lithuania, E-mail: zenonas.turskis@vgtu.lt

Research interest Multicriteria evaluation and automatic programming of technological solutions in construction and investment projects, the areas of technological sciences (T000) and construction.

Prof. Dr. Zenonas Turskis

Follow

Professor of Civil Engineering and Management, Vilnius Gediminas technical university, Department of

Civil engineering, management, economics, OR, MCDM

Verified email at vgtu.lt

Title 1–20	Cited by	Year
Selection of the effective dwelling house walls by applying attributes values determined at intervals EK Zavadskas, A Kaklauskas, Z Turskis, J Tamošaitiene Journal of Civil Engineering and Management 14 (2), 85-93	168	2008
Multiple criteria decision making (MCDM) methods in economics: an overview Z Turskis, EK Zavadskas Technological and economic development of economy, 397-427	165	2011

Google Scholar

Citation indices	All	Since 2010
Citations	2995	2506
h-index	31	27
i10-index	53	46

WEB OF SCIENCE™ THOMSON REUTERS

Search | Return to Search Results | My Tools | Search History | Marked List

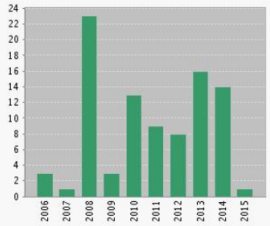
Citation Report: 91

(from Web of Science Core Collection)

You searched for: **AUTHOR:** (Turskis Z*) ...More

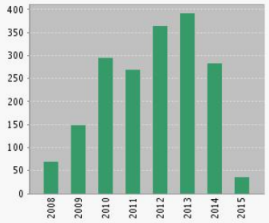
This report reflects citations to source items indexed within Web of Science Core Collection. Perform a Cited Reference Search to include citations to items not indexed within Web of Science Core Collection.

Published Items in Each Year



The latest 20 years are displayed.

Citations in Each Year

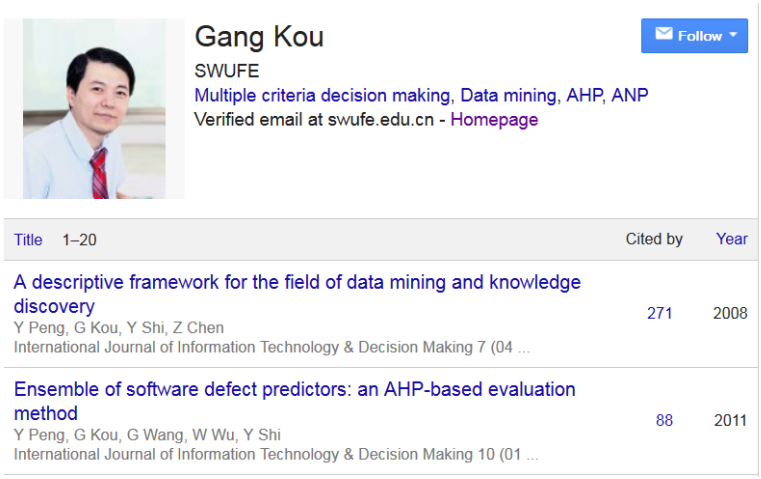


The latest 20 years are displayed.

Results found:	91
Sum of the Times Cited [?]:	1862
Sum of Times Cited without self-citations [?]:	1463
Citing Articles [?]:	649
Citing Articles without self-citations [?]:	581
Average Citations per Item [?]:	20.46
h-index [?]:	27

Prof. Gang Kou,
Southwestern University of Finance and Economics, Chengdu, China

Address:
Gang Kou, Ph.D., Professor, Executive Dean of School of Business Administration,
Southwestern University of Finance and Economics,
Chengdu, 611130, China, E-mail: kougang@yahoo.com



Gang Kou

Follow

SWUFE

Multiple criteria decision making, Data mining, AHP, ANP

Verified email at swufe.edu.cn - Homepage

Title 1–20	Cited by	Year
A descriptive framework for the field of data mining and knowledge discovery Y Peng, G Kou, Y Shi, Z Chen International Journal of Information Technology & Decision Making 7 (04 ...	271	2008
Ensemble of software defect predictors: an AHP-based evaluation method Y Peng, G Kou, G Wang, W Wu, Y Shi International Journal of Information Technology & Decision Making 10 (01 ...	88	2011

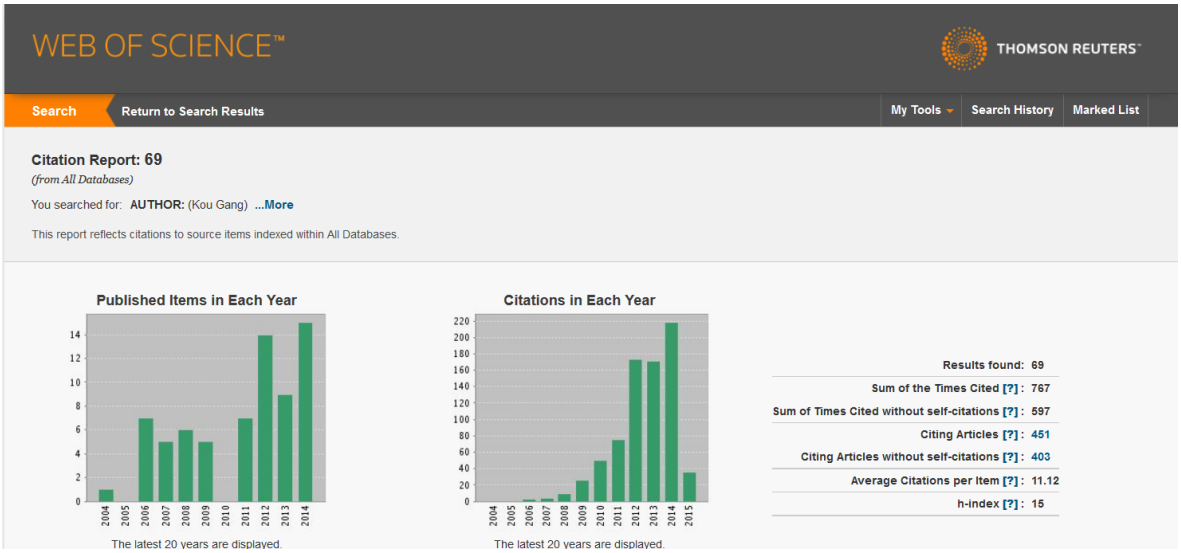
Google Scholar

Citation indices	All	Since 2010
Citations	1804	1542
h-index	20	19
i10-index	37	28

2007 2008 2009 2010 2011 2012 2013 2014 2015

Co-authors View all...

Yi Peng



WEB OF SCIENCE™

THOMSON REUTERS

Search | Return to Search Results | My Tools | Search History | Marked List

Citation Report: 69

(from All Databases)

You searched for: AUTHOR: (Kou Gang) ...More

This report reflects citations to source items indexed within All Databases.

Published Items in Each Year

The latest 20 years are displayed.

Citations in Each Year

The latest 20 years are displayed.

Results found:	69
Sum of the Times Cited [?] :	767
Sum of Times Cited without self-citations [?] :	597
Citing Articles [?] :	451
Citing Articles without self-citations [?] :	403
Average Citations per Item [?] :	11.12
h-index [?] :	15

ICCCC 2016 Special Sessions

Special Session 1: Network Optimization and Security

Organizer and Chair: Yezid DONOSO, University de los Andes, Colombia

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, ydonoso@uniandes.edu.co*

Brief Bio-Sketch: Dr. Eng. Yezid DONOSO is an Associate Professor at the Universidad de los Andes in the Computing and System Engineering Department in Bogota, Colombia, South America. He is a consultant in computer network and optimization. He holds a degree in System and Computer Engineering, a M.Sc. degree in System and Computer Engineering, a D.E.A. in Information Technology and a Ph.D. (Cum Laude) in Information Technology from Girona University, Girona, Spain. IEEE Senior Member. Distinguished Professor, given by Universidad del Norte, Colombia, October 2004. National Award of Operations research given by the Colombian Society of Operations Research, 2004. He is co-author of the book Multi-Objective Optimization in Computer Networks Using Metaheuristics (2007) and Network Design for IP Convergence.

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.*

****

Special Session 2: Data Mining and Intelligent Knowledge Management

Organizers and Chairs: Gang KOU and Yi PENG
Prof. Gang KOU,
Executive Dean of School of Business Administration,
Southwestern University of Finance and Economics,
Chengdu, 611130, China, E-mail: kougang@yahoo.com

Brief Bio Sketch: Dr. Gang Kou (b. December 12, 1975) is a Professor and Executive Dean of School of Business Administration, Southwestern University of Finance and Economics. He is managing editor of International Journal of Information Technology & Decision Making and series editor of Quantitative Management (Springer). Previously, he was a research scientist in Thomson Co., R&D. He received his Ph.D. in Information Technology from the College of Information Science & Technology, University of Nebraska at Omaha; got his Master degree in Department of Computer Science, University of Nebraska at Omaha; and B.S.degree in Department of Physics, Tsinghua University, Beijing, China. He has participated in various data mining projects, including data mining for software engineering, network intrusion detection, health insurance fraud detection and credit card portfolio analysis. His research interests are in Data mining, Multiple Criteria Decision Making and Information management. He has published more than eighty papers in various peer-reviewed journals and conferences. He has over 1,700 citations in Google Scholar.

Prof. Yi PENG,
School of Management and Economics,
University of Electronic Science and Technology of China,
Chengdu 610054, China, pengyi@ uestc.edu.cn

Brief Bio Sketch: ***Dr. Yi PENG*** (b. March 21, 1975) is a professor of School of Management and Economics, University of Electronic Science and Technology of China. Previously, she worked as Senior Analyst for West Co., USA. Dr. Peng received her Ph.D. in Information Technology from the College of Information Science & Technology, Univ. of Nebraska at Omaha and got her Master degree in Dept of Info. Science & Quality Assurance, Univ. of Nebraska at Omaha and B.S. degree in Department of Management Information Systems, Sichuan University, China. Her research interests cover Knowledge Discover in Database and data mining, multi-criteria decision making, data mining methods and modeling, knowledge discovery in real-life applications. She published more than forty papers in various peer-reviewed journals and conferences. She is the Workshop Chair of the 20th International Conference on Multiple Criteria Decision Making (2009), guest editor of Annals of Operations Research special issue on Multiple Criteria Decision Making on Operations Research.

Session Scope :

Data mining (DM) and knowledge management (KM) are two important research areas, but with different emphasis. Research and practice in these two areas have been largely conducted in parallel. Although both data mining and knowledge management have been active areas in research and practice, there is still a lack of idea exchange between these two camps. The first goal of this workshop is to bridge this gap. It has been well-known that data mining algorithms can discover hidden patterns from large-scale databases. However, the results of data mining may not be regarded as "knowledge". To elicit explicit knowledge from the hidden patterns of data mining, which is useful to the end-users, the theory of human knowledge management should be adopted. Such a "special" knowledge, different from traditional knowledge since it can be stored, transformed, disseminated and expanded, is called intelligent knowledge. The second goal of this workshop is to discuss the research issues beyond data mining, foundation of intelligent knowledge management, and the process of identifying intelligent knowledge.

Session Topics

The workshop welcomes both high-quality academic (theoretical or empirical) and practical papers in the broad ranges of data mining and intelligent knowledge management related topics including, but not limited to the following: *Data mining interpretation; Data mining and knowledge transfer; Data analysis and knowledge management; Data mining and risk management; Data warehousing in knowledge management; Evaluations of hidden patterns; Optimization based data mining for knowledge management; Practical issues of data mining; Integration of data mining and knowledge management; Intelligent knowledge algorithms; Man-machine interaction in data mining; Intelligent knowledge management.*

****

Special Session 3: Computational Intelligence Methods

Organizers and Chairs: Răzvan ANDONIE & Donald DAVENDRA, Central Washington University, USA & Valeriu BEIU, Aurel Vlaicu University of Arad, Romania

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*

Brief Bio Sketch: ***Razvan ANDONIE*** received the M.S. degree in mathematics and computer science from University of Cluj-Napoca, Romania, and the Ph.D. degree from University of Bucharest, Romania. His Ph.D. advisor was Solomon Marcus, Fellow of the Romanian Academy. He is currently a Professor of Computer Science at both Central Washington University and Transilvania University of Brasov, Romania. He has published morethan 130 research papers and was an invited professor at many universities. His actual research interests are computational intelligence techniques and applications, parallel/distributed computing, machine learning, and big data analytics.

Dr. Donald DAVENDRA, *Central Washington University, 400 East University Way, Ellensburg, WA 98926, USA, Phone: (509) 963-1430, FAX: (509) 963-1449,* donald.davendra@ vsb.cz

Brief Bio Sketch: ***Donald DAVENDRA*** is an Associate Professor of Computing Science at Central Washington University, USA. His education background includes a Bachelor of

Science, Postgraduate Diploma and Master of Science in Computing Science and Engineering from the University of the South Pacific, Fiji Islands and a Doctor of Philosophy in Technical Cybernetics from Tomas Bata University in Zlin, Czech Republic. His research areas are in evolutionary systems, chaotic systems, complex networks and its application to combinatorial optimisation problems. His publication list includes two edited monographs and around 100 papers in various peer-reviewed journals and conferences.

Prof. Valeriu BEIU, *Aurel Vlaicu University of Arad*,

str. Elena Drăgoi, nr. 2, 310330, Ara, 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*.

Section Scope

Computational intelligence is relatively new to industry. It On top of that, computational intelligence is based on a smorgasbord of approaches with very different theoretical bases, such as fuzzy logic, neural networks, evolutionary computation, statistical learning theory, swarm intelligence, and intelligent agents.

There is little consensus as to a precise definition of Computational Intelligence (CI). Nevertheless, most practitioners would include neural networks, fuzzy and evolutionary techniques, swarm intelligence (and perhaps others), and more especially *hybrids* of these. Essentially, CI comprises concepts, paradigms, algorithms and implementations of systems that are supposed to exhibit intelligent behavior in complex environments. It relies heavily on numerical, predominantly nature-inspired methods. These methods have the advantage that they tolerate incomplete, imprecise and uncertain knowledge.

CI is still a fast- growing research area in the category of emerging technologies, with thousands of applications. For most of the scientists introducing computational intelligence technologies into practice, looking at the growing number of new approaches, and understanding their theoretical principles and potential for value creation becomes a more and more difficult task. One of the reasons is that it is hard to choose from this huge variety of techniques the most appropriate one for a given real-world problem. Moreover, we sometimes do not even know if a CI technique is the appropriate approach.

Therefore, this section will adopt a very different definition of CI. We focus on problems instead of tools, looking at methods for problems not at problems for methods. This will enable us to compete with other methods for various applications, facilitating real progress towards more difficult problems.

This approach inspired by Włodzisław Duch's definition, "**CI is a branch of computer science studying problems for which there are no effective computational algorithms"**. If we define CI by the problems that the field studies, then we do not have to restrict the types of methods used for solutions.

Topics and Keywords

We seek original and high-quality contributions on the general theme of Computational Intelligence Methods. The session is focused on both CI algorithmic developments and applications. The following is a non-exhaustive list of problem environments for which we look for CI solutions: *incomplete and imprecise data; big data; data streams; real-time processing; hybrid data; parallel/distributed processing; scheduling, logistic and assignment problems optimization; complex network analysis; social network analysis; bioinformatics.*

****

Special Session 4: Advanced Decision Support Systems with particular emphasis on sustainable energy

Organizers and Chairs: Marius CIOCA, Lucian Blaga University of Sibiu, Romania

Felisa CORDOVA, Universidad de Santiago de Chile, Chile

Prof. Marius Cioca, *Faculty of Engineering, "Lucian Blaga" University of Sibiu, Emil Cioran Street, 4, 550025 - Sibiu, ROMANIA, Phone (office): +40 - 0269 - 217928, int. 1438, Fax (office): +40 - 0269 - 212245, marius.cioca@ ulbsibiu.ro*

Brief Bio Sketch: ***Marius CIOCA*** received his M.Sc. in Computer Science (1995) and PhD in Automatic Control (2004) from Politehnica University of Bucharest. Now he is full Professor of Computer Science at Department of Industrial Engineering and Management, "Lucian Blaga" University of Sibiu, Romania. His current research interests include different aspects of Web engineering, References Arhitectures, Informatic Systems, Decision Support Systems and Data mining. He has (co-)authored more than 9 books, 70 papers, has received 7 grants and was member of 20 research projects.

Prof. Felisa Cordova, Department of Industrial Engineering, University of Santiago of Chile, Santiago, Chile, felisa.cordova@usach.cl

Felisa CORDOVA is graduated in Electrical Engineering at the University of Santiago of Chile (1974). She obtained the D.E.A. in Electronics and the Docteur Ingenieur degree at the University of Paris XI, France (1981). Now she is professor and Director of the Department of Industrial Engineering, she was also Academic Vice Rector at USACH. Her main research interests include Strategic and Operations Management and Knowledge Management of the Supply Chain. She has participated in several national and international research projects in the fields of Robotics, AGV and Virtual Operation Systems in underground mining. She has

published more than 70 papers in conference proceedings and international journals in areas of Robotics and Production Re-search, Knowledge and Strategic Management. She is past-president of the Chilean Association of Automatic Control ACCA (member of IFAC). She has participated in the organization of national and international Conferences (ACCA, LCA, LCR, SEPROSUL, ICCC, ICPR). She is national councilor and past Vice President of the Engineers College of Chile. Actually she is member of the engineer accreditation board at Acredita CI.

Session Scope:

The concept of DSS is extremely large and there are multiple definitions depending on the viewpoint of researchers. Passing over definition and concept, this session aims types of users, ways of use and implications of using DSS. Thus the components of DSS must be highlighted, and, considering the new paradigm in field, ways of tehnological integration and emphasis (news) technologies used to build them, especially, focused on communications as well an approach of DSS based on web. Sure, beside concepts, ways and principles are welcome also exemplification of DSS already used/tested both in industry but also in other fields (ex. e-Health, e-Governance, e-Business, DSS Group etc.)

Session Topics: *Challenges of complex decision making in an organization; An overview of the decision making methods of a human; The relation of knowledge and data from different perspectives; DSS Architecture and types; Requirements of decision makers in an organization; Data warehousing and DSS; Data mining and Web mining in DSS; Multi-criteria decision making; Group decision making; Organizational decision making; DSS using Knowledge management.*

****

Special Session 5: Fuzzy Control, Modeling and Optimization

Organizer and Chair: Radu-Emil PRECUP, Politehnica University of Timisoara, Romania

Prof. Radu-Emil PRECUP, Department of Automation and Applied Informatics, Politehnica University of Timisoara, Bd. V. Parvan 2, 300223 Timisoara, Romania, radu.precup@upt.ro

Brief Bio-Sketch: ***Radu-Emil PRECUP*** is currently with the Politehnica University of Timisoara, Romania, where he became a Professor in the Department of Automation and Applied Informatics, in 2000, and he is currently a Doctoral Supervisor of automation and systems engineering. He is also an Honorary Professor and a Member of the Doctoral School of Applied Informatics with the Óbuda University, Budapest, Hungary. He has been an Editor-in-Chief of the International Journal of Artificial Intelligence since 2008 and he is also on the editorial board of several other prestigious journals including Applied Soft Computing (Elsevier) and Evolving Systems (Springer). He is the author or coauthor of more than 300 papers published in various scientific journals, refereed conference proceedings, and contributions to books. His current research interests include intelligent control systems, data-driven control, and nature-inspired algorithms for optimization. He is a senior member of IEEE, the vice-chair of the Virtual Reality Task Force of the Intelligent Systems Applications Technical Committee (TC) of the IEEE Computational Intelligence Society, a member of the International Federation of Automatic Control (IFAC) TC on Computational Intelligence in Control, and the Romanian Society of Control Engineering and Technical Informatics. He was the recipient of the "Grigore Moisil" Prize from the Romanian Academy in 2005 for his contribution on fuzzy control.

Session Scope:

Fuzzy control has long been applied to very large areas that exhibit important results. Originally introduced as model-free control approach, model-based fuzzy control has gained widespread significance recently. A systematic way to meet the performance specifications of control systems in complex applications is solving optimization problems with variables represented by the tuning parameters of the controllers. The very good quality of fuzzy models is necessary for the description of nonlinear dynamic processes and for getting simple models that are useful in the model-based design of fuzzy controllers. Once the fuzzy models are obtained, their parameters can be tuned on the basis of adequate optimization problems that target the minimization of objective functions in order to reduce as much as possible the modeling errors. The objective of this session is to provide papers about the recent advances of fuzzy control, modeling and optimization in various industrial and non-industrial applications. The combination of two of these three approaches is encouraged.

Session Topics

The papers submitted to this session will include the following topics: *Stable and model-based design of fuzzy control systems; Fuzzy modeling and simulation; Nature-inspired optimization in fuzzy modeling and control; Data-driven fuzzy control; Adaptive, predictive and robust fuzzy control; Type-2 fuzzy control and modeling; Evolving soft computing techniques for modeling, fault detection and isolation; Hybrid intelligent control including fuzzy control, neural networks, evolutionary-based optimization.*

Special Session 6: Membrane Computing - Theory and Aplications

Organizers and Chairs: Marian GHEORGHE & Florentin IPATE

Prof. Marian Gheorghe - The University of Bradford, Bradford BD7 1DP, United Kingdom, m.gheorghe@bradford.ac.uk

Brief Bio Sketch: ***Marian Gheorghe*** received the bachelor degree in mathematics and computer science and the PhD degree from the University of Bucharest. He moved to academia in 1991 as lecturer with the University of Bucharest and after a short spell with the University of Pitesti he took up a lectureship position with the University of Sheffield. Since 2015 he is a professor of computational models and software engineering with the University of Bradford, UK. His main research interests are in computational models, like automata, rewriting mechanisms, membrane systems and their applications in modelling complex systems, especially in biology. He is also interested in formal verification and model based testing. He was for five consecutive years the chair of the steering committee of the membrane computing conference, the main research forum of the membrane computing community. He edited special issues of prestigious journals and volumes of various conference proceedings.

Prof. Florentin Ipate - The University of Bucharest, Str Academiei 14, 010014, Bucharest, Romania, florentin.ipate@ifsoft.ro

Brief Bio Sketch: ***Florentin IPATE***received his bachelor degree in computer science from the "Politehnica" university of Bucharest. He received his MSc (in Software Systems Technology, with distinction) and his PhD (with a thesis nominated for the Distinguished Disertation Award in UK) from the University of Sheffield. Since 2002 he is Professor of Computer Science (at Pitesti University 2002-2012) and since 2012 at the University of Bucharest. His main research interests are in model based testing, agent based modelling, verification and testing, membrane computing. He published over 100 papers in prestigious journals and conferences and a research monograph with Springer.

Session Scope: Membrane computing is a new nature inspired computational paradigm abstracting from the structure and functionality of the living cell. It has a well-established corpus of research topics covering computational power, complexity and efficiency aspects, relationships with other classes of computational models, formal semantics and verification. Applications in systems and synthetic biology, cryptography, graphics, natural language processing and parallel and distributed computing have been investigated. A handbook presenting the key research topics has been published with Oxford University Press and two monographs on applications have appeared with Springer.

Session Topics: *New computational models in membrane computing; Complexity aspects; Formal verification; Membrane algorithms; Fuzzy membrane systems; Applications.*

Special Session 7: Stereovision Based Perception for Autonomous Mobile Systems and Advanced Driving Assistance

Organizer and Chair: Sergiu Nedevschi, Technical University of Cluj-Napoca, Romania

Prof. Sergiu NEDEVSCHI , Computer Science Department, Technical University of Cluj-Napoca, 28 Memorandumului st., 400114, Cluj-Napoca, Romani
Sergiu.Nedevschi@cs.utcluj.ro

Brief Bio-Sketch: ***Sergiu Nedevschi*** received the M.S. degree in E.E. from Technical University Cluj-Napoca, Romania, in 1975, and the Ph.D. degree in E.E. from the same university in 1993. From 1976 to 1983 he worked as researcher at the Research Institute for Computer Technologies from Cluj-Napoca. In 1998 he was appointed Professor in Computer Science and he founded the Image Processing and Pattern Recognition Research Center at Technical University of Cluj-Napoca (TUCN). From 2000 to 2004 he was the Head of Computer Science Department, from 2004 to 2012 the Dean of Faculty of Automation and Computer Science, and now is Vice–President for Scientific Research and ICT of the Technical University of Cluj-Napoca. His research interests include image processing, pattern recognition, computer vision, stereovision based perception, intelligent vehicles and driving

assistance systems. He leaded more than 75 research projects and published more than 300 papers (80+ journal papers). Since 2001 he has coordinated a series of research contracts funded by Volkswagen AG in the field of "Stereovision for Driving Assistance and Autonomous Driving". From 2013 he is continuing the research activity in Stereovision for Driving Assistance in cooperation with Bosch. He has been involved in EU projects like as INTERSAFE 2, INSEMTIVES, LARKC, DRIVE C2X, PAN-Robots. He is associate editor of IEEE Transactions on Intelligent Transportation Systems, the organizer of the IEEE Intelligent Computer Communication and Processing Conference (ICCP). He has been PC member, member in the local organizing committee, session chair of more than 50 international conferences and workshops including IEEE IV Symposium and IEEE ITSC.

Session Scope: The autonomous mobile systems and the advanced driving assistance systems sense their surrounding with devices such as radar, lidar, video camera. The sensory information is captured, perceived and represented in a convenient way for navigation path identification, and collision avoidance. The main perception functions are: environment geometry detection; painted objects detection, localization and classification; traffic signs and lights detection and classification; landmarks detection, localization and classification; detection, tracking, relative localization, relative speed estimation, and classification of the objects from traffic environment; objects behavior understanding; scene understanding; risk assessment.

The stereo sensor is the most powerful and reach in information sensor providing at least 3 different modalities: depth image, optical flow image, intensity or color image. The current research is focused firstly on improving dense stereo reconstruction, dense optical flow estimation, stereovision based visual odometry, and secondly on developing more robust and effective perception functions.

The current trend is to use probabilistic approaches to solve problems as estimation, recursive state estimation, parameters learning, classifiers learning, temporal and multi-sensor fusion, object behavior and scene understanding.

The objective of this session is to provide papers about the recent advances in stereovision based perception with applications in autonomous navigation and advanced driving assistance.

Session Topics
The papers submitted to this session will include the following topics: *dense stereo reconstruction; dense optical flow estimation; visual odometry; error models; scene parsing; environment geometry detection; obstacle detection, tracking, classification; pedestrian detection, tracking and classification, behaviour understnding, scene understanding, environment representation, risk assessment.*

Deadlines

- Full Paper Submission Deadline: *December 1, 2015.*(Extended: January 10, 2016)
- Notification of Acceptance/Rejection of Papers: *February 15, 2016.*
- Final Submission and Conference Fee Transfer:*March 15, 2016.*
- Abstracts and Papers Submission via EasyChair.

Conference Fees

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

- access to the conference program and publication in ISI indexed journal;
- conference materials and coffee breaks;
- reception banquets and daily meals (lunch and dinner on May 11-13);
- excursion (May 13, Mountain Resort, meals included).

Variant 2. Full variant: conference fee is 800 € that includes:

- accommodation at four stars Hotel in Baile Felix on May 10/11, 11/12, 12/13, 13/14: PRESIDENT HOTEL ;
- access to the conference program and publication in ISI indexed journal;
- conference materials and coffee breaks;
- reception banquets and daily meals (breakfast, lunch and dinner on May 11-13);
- excursion (May 13, Mountain Resort, meals included);
- indoor pool / outdoor pool with thermal water;
- sauna and jacuzzi;
- fitness;
- sport facilities (football, tennis);
- guarded indoor parking;
- Internet - Wireless.

Discounts

- 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%.

DATA FOR BANK TRANSFER

Supplier/Beneficiary: S.C. Cercetare Dezvoltare Agora S.R.L.
Fiscal code: 24747462
Headquarter: Oradea, Piata Tineretului Nr.8, Bihor, ROMANIA, Zip code 410526
1. BANCA COMERCIALA FEROVIARA S.A. ORADEA
P-ta Unirii Nr. 8, Oradea, Bihor, România
SWIFT: BFER
IBAN Account for EURO:
RO50 BFER 2480 0001 4038 EU01.
IBAN Account for RON (Romanian currency):
RO93 BFER 2480 0001 4038 RO01

2. TREZORERIA ORADEA ACCOUNT (only for Romanian state universities)

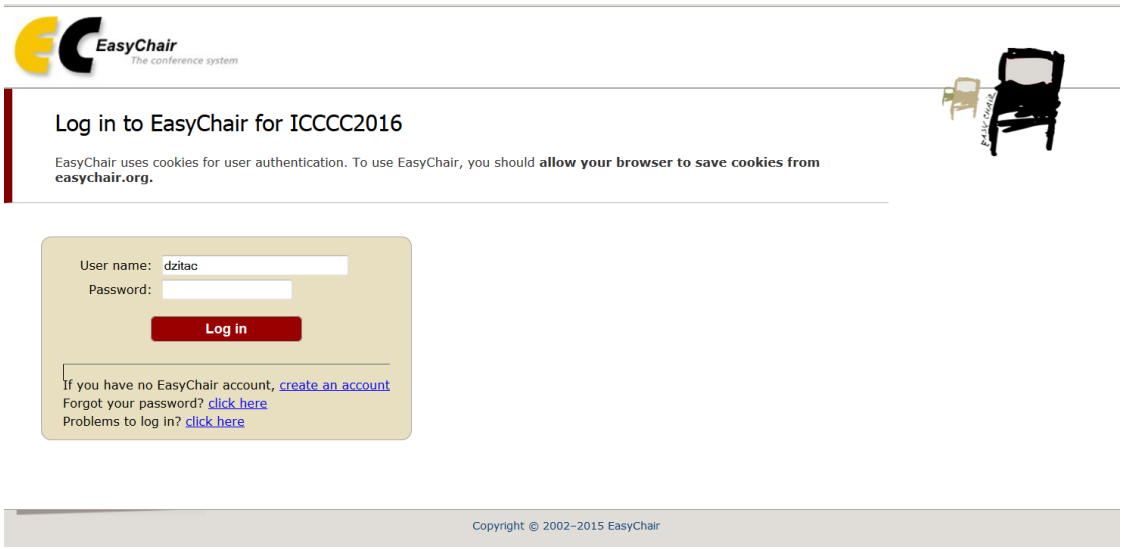
Address: str. Grivitei 4, Oradea, 410520, jud. Bihor IBAN
Account for RON (Romanian currency):
RO20 TREZ 0765 069X XX00 8908

3. Online payment via PayU

Visa/MasterCard/Eurocard or PayPal
(participants must send a request for a link for online payment).

Contact:
E-mail: icccc@univagora.ro; rd.agora@univagora.ro, rector@univagora.ro, ioan@dzitac.ro.

SUBMISSION



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

Author Guidelines

1. Initial submission and publication (manuscript for review and proceedings publication)

All accepted papers after strict peer-reviewing process will be included in the *IEEE Proceedings of 2016 6th International Conference on Computers Communications and Control* (ISBN 978-1-5090-1735-5), and will be indexed and abstracted in IEEE Xplore and other (A&I) independent services as Web of Science (Thomson Reuters), Scopus (Elsevier) etc.:

http://dzitac.ro/files/icccc/38118_LOA_201512011202.pdf

Warning:

- Abstracts and Papers Submission will be issued via EasyChair.
- Each paper shall consist of a minimum of 4 (Four) pages and a maximum of 10 (Ten) pages.
- The manuscript must be write using IEEE Manuscript Template (A4 DOC or LaTex) for Conference Proceedings: http://www.ieee.org/conferences_events/conferences/publishing/templates.html

2. Extended versions publication after conference

After presentation at conference, extended version (8-16 pages, without additional tax) of some selected high-quality papers will be published in International Journal on Computers Communications & Control (INT J COMPUT COMMUN, IF = 0.746 in JCR2014) and will be indexed in Science Citation Index Expanded as "ISI articles" and in Scopus.

IJCCC is indexed/abstracted in:

1) In SCI Expanded (ISI Thomson Reuters), Impact Factor in JCR2014 = 0.746.
Subject Category Ranking:
– Automation & Control Systems: Q4 (47 of 58);
– Computer Science, Information Systems: Q3 (96 of 139)

2) In Scopus (SNIP2014 = 1.029, IPP2014 = 0.619, SJR2014 =0.450): A) Computational Theory and Mathematics [Q3] , B) Computer Networks and Communications [Q2], C) Computer Science Applications [Q2].

3. Duplicate submission and plagiarism

The submissions to ICCCC 2016 must represent original material.
Papers are accepted for review with the understanding that the same work has been neither submitted to, nor published in, another conference or journal.
Concurrent submission is viewed as a serious breach of ethics and, if detected, will result in immediate rejection of the submission.

The author(s) warrants that the submitted paper is based on their original work. It is the author's responsibility to obtain written permission to quote material that has been previously published in any form.

4. Presenter's Information

The time allocated to oral presentation will be following:

- Regular paper (parallel/special session, paper up to 6 pages): 20 minutes which include the time for discussion (usually 5 minutes).
- Invited paper (special session, paper up to 16 pages): 40 minutes which include the time for discussion (usually 10 minutes).
- Invited paper (plenary session, paper up to 16 pages): 60 minutes which include the time for discussion (usually 15 minutes).
- PowerPoint (PPT or PPS) or Acrobat PDF slides (saved on CD, DVD, Memory Flash) for presentation on a data projector are recommended for your talk at ICCCC 2016.
- Logistics, Technical tools and Supports: Laptop; Microphone; Laser Printer; Digital Copier; Colour Scanner; Video Projector; Flipchart.

Program Committee

- Razvan ANDONIE, Central Washington University, USA **(Senior Member of IEEE -CIS)**
- Valentina BALAS, Aurel Vlaicu University of Arad, Romania **(Senior Member of IEEE - CIS)**
- Hector BENITEZ-PEREZ, IMAS, UNAM, Mexico
- Pierre BORNE, Ecole Centrale de Lille, France **(Fellow Member of IEEE –SMCS)**
- Marius CIOCA, Lucian Blaga University of Sibiu, Romania (Member of IFAC)
- Hariton COSTIN, University of Medicine and Pharmacy –Iasi, Romania **(Member of IEEE - EMBS)**
- Bogdan CRIVAT, Predixion Software, USA
- Donald DAVENDRA, Central Washington University, USA
- Antonio DI NOLA, University of Salerno, Italy
- Radu DOBRESCU, Politehnica University of Bucharest, Romania **(Senior Member of IEEE, Former President of the *IEEE Romania* Section)**
- Ioan DZITAC, Agora University of Oradea, Romania **(Senior Member of IEEE - CIS)**
- Yezyd DONOSO, Universidad de los Andes, Colombia **(Past Chair IEEE Colombia Section)**
- Ömer EĞECİOĞLU, University of Santa Barbara, USA
- Florin Gheorghe FILIP, Romanian Academy, Romania (Full Member of Romanian Academy)
- Janos FODOR, Óbuda University, Hungary
- Marian GHEORGHE, University of Sheffield, UK
- Enrique HERRERA VIEDMA, University of Granada, Spain **(Member of the government of the IEEE SMC Society)**
- Kaoru HIROTA, Tokyo Institute of Technology, Japan **(Senior Member of IEEE and IEEE CIS Distinguished Lecturer)**
- Florentin IPATE, University of Bucharest, Romania
- Gang KOU, Sothwestern University of China, China
- Vinod MADAN, Kalasalingam University, India
- Sergiu NEDEVSCHI, Technical University of Cluj-Napoca, Romania **(Member of IEEE - Member of *IEEE Romania* Section Committee)**
- Radu NICOLESCU, The University of Auckland, New Zealand **(Member of *IEEE* Computer Society)**
- Shimon Y. NOF, Purdue University, USA
- Stephan OLARIU, Old Dominion University, USA

- Gheorghe PĂUN, Romanian Academy, IMAR, Romania (Full Member of Romanian Academy and of Academia Europaea)
- Mario de J. PEREZ-JIMENEZ, University of Seville, Spain
- Yi PENG, University of Electronic Science and Technology of China, China
- Radu-Emil PRECUP, Politehnica University of Timisoara, Romania **(Senior Member of IEEE)**
- Imre J. RUDAS, Óbuda University, Hungary **(Member of IEEE -CIS)**
- Yong SHI, University of Chinese Academy of Sciencies
- Milan STANOJEVIC, University of Belgrad, Serbia
- Athanasios D. STYLIADIS, Kavala Institute of Technology, Greece
- Ioan Alexandru ŞUCAN, Google [x] , USA
- Gheorghe TECUCI, George Mason University, USA (Full Member of Romanian Academy)
- 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
- Sofia VISA, College of Wooster, USA

Organizing Committee

- Dan BENTA, Agora University of Oradea, Romania
- Casian BUTACI, Agora University of Oradea, Romania
- Felisa CORDOVA, University of Santiago de Chile, Chile
- Simona DZITAC, University of Oradea, Romania
- Adriana MANOLESCU, Agora University of Oradea, Romania
- Razvan MEZEI, Lenoir-Rhyne University, USA
- Ioana MOISIL, "Lucian Blaga" University of Sibiu, Romania
- Horea OROS, University of Oradea, Romania
- Bogdana STANOJEVIC, Mathematical Institute of the Serbian ASA, Serbia

USEFUL LINKS

If you are planning to arrive by airplane:

The closest cities with airports are:
1. ***Oradea***, flying with Tarom: http://www.tarom.ro/
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

PROGRAM OF ICCCC 2016

6th International Conference on Computers, Communications and Control

Hotel President, *Băile Felix, Oradea, România, May 10-14, 2016*

General Program (at a glance):

DATE	HOUR	ACTIVITY	PLACE
Tuesday **May 10**	12:00-22:00	Arrival of participants Registration	Băile Felix (8 km from Oradea) Hotel President
Wednesday **May 11**	07:00-08:30	Breakfast	Hotel President
	09:30-10:30	Official Opening	Agora University
	10:30-11:30	Keynote lecture	Agora University
	11:30-12:00	Coffee break	Agora University
	12:00-13:00	Keynote lecture	Agora University
	13:00-14:00	Keynote lecture	Agora University
	14:30-15:30	Lunch	Hotel President
	16:00-17:00	Keynote lecture	Hotel President
	17:00-17:30	Coffee break	Hotel President
	17:30-18:30	Keynote lecture	Hotel President
	18:30-19:30	Free activities	
	19:30	Romanian Dinner	Hotel President
Thursday **May 12**	07:00-09:00	Breakfast	Hotel President
	09:00-11:00	Parallel Sessions	Hotel President
	11:00-11:30	Coffee break	Hotel President
	11:30-14:00	Parallel Sessions	Hotel President
	14:00-15:00	Lunch	Hotel President
	16:30-18:00	Parallel Sessions	Hotel President
	18:00-18:30	Coffee break	Hotel President
	18:30-19:30	Parallel Sessions	Hotel President
	19:30	International Dinner	Hotel President
Friday **May 13**	07:00-08:30 08:30-:20:00	Breakfast EXCURSION	Hotel President Mountain Resort
Saturday **May 14**	12:00	Departure of participants	

Conference Chairs

General Chair:

Ioan DZITAC,
Rector of Agora University of Oradea, Romania,
Senior member of IEEE -CIS
rector@univagora.ro, professor.ioan.dzitac@ieee.org

Program Committee Chair:

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

Organizing Committee Chair:

Misu-Jan MANOLESCU,
President of Agora University of Oradea,
Romania, mmj@univagora.ro

Contact

Agora University, R&D Agora
Piata Tineretului, 8, Tel./Fax: +40 359 101 032
E-mail: icccc@univagora.ro, rector@univagora.ro, professor.ioan.dzitac@ieee.org