



# PROGRAM

of

## IEEE-ICCCC2016

### 6th International Conference on Computers Communications & Control

Hotel President, Băile Felix- Oradea, Romania  
May 10-14, 2016

This edition is dedicated to the 110th anniversary of



**GRIGORE C. MOISIL (1906-1973)**

Romanian Mathematician

Computer Pioneer Award of IEEE Computer Society (1996, post mortem)

<http://univagora.ro/en/icccc2016/>

# AGORA UNIVERSITY

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**AGORA UNIVERSITY**  
OF ORADEA, ROMANIA

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**Prof.Gang Kou, DHC of Agora University**

RECTOR'S PROPOSAL In 2012, Prof. Gang Kou, Executive Dean of School of Business Administration, Southwestern University of Finance and Economics (SWUFE) of Chongqing

**Invitation from China: 2016 Discover SWUFE**

Letter from China: Dear Partners, We wish you all a happy and prosperous new year for 2016! It is with great pleasure that we once again welcome you and your students to participate in our annual

**Other news**

IEEE-ICCCC2016 Deadline Extended

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

Agora Conferences 2015-2016

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**Tel./Fax: +40359101032**  
**E-mail: [icccc@univagora.ro](mailto:icccc@univagora.ro)**



### Hotel President, Băile Felix, Romania

417500 Baile Felix Resort  
 Phone: +40259-318.381, +40748-423-363  
 GPS: 47° 0'10" N, 21° 57'32" E  
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**IEEE-ICCCC2016**  
**6th International Conference on Computers Communications & Control**

This edition of conference is dedicated to the 110th anniversary of



**GRIGORE C. MOISIL (1906-1973)**

**Romanian Mathematician**

**Computer Pioneer Award of IEEE Computer Society (1996 - post mortem)**

**“Grigore Constantin Moisil** (Romanian: [gri'gore mo.i'sil]; 10 January 1906 – 21 May 1973) was a Romanian mathematician, computer pioneer, and member of the Romanian Academy. His research was mainly in the fields of mathematical logic, (Łukasiewicz–Moisil algebra), algebraic logic, MV-algebra, and differential equations. He is viewed as the father of computer science in Romania.

Moisil was also a member of the Academy of Sciences of Bologna and of the International Institute of Philosophy. In 1996, the IEEE Computer Society awarded him posthumously the *Computer Pioneer Award*.”

Source: [https://en.wikipedia.org/wiki/Grigore\\_Moisil](https://en.wikipedia.org/wiki/Grigore_Moisil)





### Invitation from China: 2016 Discover SWUFE

Letter from China: Dear Partners, We wish you all a happy and prosperous new year for 2016! It is with great pleasure that we once again welcome you and your students to participate in our annual Discover SWUFE Summer Camp for International students. This year's camp will take place between July 3rd-16th 2016 in Chengdu, China!

### IEEE-ICCC2016 Deadline Extended

IEEE - ICC2016 6th International Conference on Computers Communications and Control- dedicated to the 110th anniversary of Grigore C. Moisil (1906-1973)- Hotel President, Băile Felix, Oradea, România, May 10-14, 2016 Organized by Agora University of Oradea, under the aegis of Romanian Academy: - Information Science

[www.univagora.ro](http://www.univagora.ro)

### Other news

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

Agora Conferences 2015-2016

Progress in Scopus for our IJCCC

Prof. Enrique Herrera Viedma: Keynote Speaker at ICC2016

IJCCC and Fuzzy Sets

### "ACCESS TO SUCCESS!"



**Prof. Adriana Manolescu, PhD**

*President of The Senate  
of Agora University*

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**Prof. Mișu-Jan Manolescu, PhD**

*President of The Administration Council  
of Agora University*

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**Prof. Ioan Dzitac, PhD**

*Rector  
of Agora University*

[rector@univagora.ro](mailto:rector@univagora.ro)

## ICCCC 2016 GENERAL PROGRAM

May 10-14, 2016

*Tuesday, May 10, 2016:*

### **PARTICIPANTS' ARRIVAL**

HOURS	ACTIVITY	PLACE	SERVICES
12:00-22:00	Registration of participants	Hotel President, Baile Felix Second Reception	-conference materials receiving; -welcome snack, coffee, tea, water; -repartition for accommodation; -free relax program: swimming in thermal water, spa, forest trip, nenuphare lake visit etc.



## IEEE-ICCC2016 GENERAL PROGRAM (at a glance)

### Wednesday, May 11: OPENING & PLENARY SESSIONS:

DATE	HOUR	ACTIVITY	PLACE
Wednesday May 11	07:00-08:30	Breakfast + Registration	Hotel President
	09:30-10:50	Official Opening Ceremony + Keynote lecture: Prof. Enrique HERRERA – VIEDMA, Spain <i>Intelligent Decision Making and Consensus</i> Chair: Acad. F.G. FILIP, Romania	Agora University Blue Aula
	10:50-11:10	Coffee break	Agora University Green Aula
	11:10-11:30	Professor/Doctor Honoris Causa Ceremony I. Moisi/ G. Kou	Agora University Blue Aula
	11:30-13:20	Keynote lecture: Prof. Ioana MOISIL, Romania <i>The wonderful adventures of the mathematician in Logic-land: from Łukasiewicz-Moisil Logic to Computers</i> Chair: Acad. G. DZEMYDA ***** Keynote lecture: Prof. Gang KOU, China <i>The theorem and methodologies of the data analysis in the decision making</i> Chair: Acad. Z. TURSKIS, Lithuania	Agora University Blue Aula
	13:20-13:50	Welcome cocktail	Agora University Green Aula
	14:30-15:30	Lunch	Restaurant R1 Hotel President
	16:00-17:00	Keynote lecture: Acad. Gintautas DZEMYDA, Lithuania <i>Methods and Applications of the Multidimensional Data Visualization</i> Chair: Prof. I. MOISIL, Romania	Hotel President Room S1
	17:00-17:30	Coffee break	Hotel President
	17:30-18:30	Keynote lecture: Acad. Florin Gheorghe FILIP, Romania <i>From Fitt's list to modern incremental platforms: the impact of modern I&amp;CT technologies</i> Chair: Prof. G. KOU, China	Hotel President Room S1
	18:30-19:30	Keynote lecture: Acad. Zenonas TURSKIS, Lithuania <i>Lithuanian School on Multiple Criteria Decision Making</i> Chair: Prof. E. HERRERA-VIEDMA, Spain	Hotel President Room S1
	20:00-23:00	Romanian Dinner	Restaurant R2 Hotel President



### *Wednesday, May 12, PARALLEL SESSIONS*

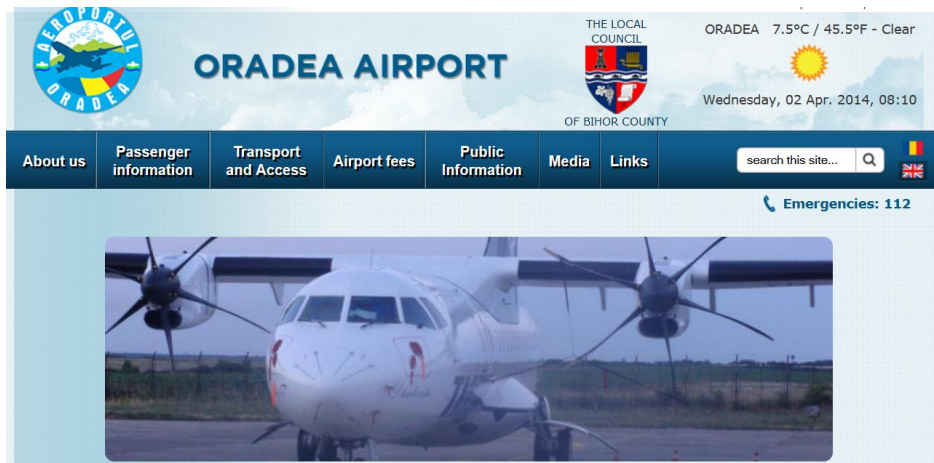
DATE	HOUR	ACTIVITY	PLACE
<b>Thursday May 12</b>	07:00-08:30	Breakfast	Hotel President Restaurant R1
	09:00-11:00	Parallel Sessions	Hotel President (S1, S2, S3, S4)
	11:00-11:30	Coffee break	Hotel President
	11:30-13:30	Parallel Sessions	Hotel President (S1, S2, S3, S4)
	13:30-14:00	Conclusions and Closing Ceremony	Hotel President S1
	14:30-15:30	Lunch	Hotel President Restaurant R2
	15:30-19:30	Free activities	ORADEA CITY TOUR (with bus) Or Swimming, Sport, Spa, Forest Trip, Baile Felix Trip (Nenuphre Lake)
	20:00-23:00	International Dinner	Hotel President, Restaurant R2



### *Saturday, May 14: EXCURSION*

<b>Friday May 13</b>	07:00-08:30	Breakfast	Hotel President
	09:00-20:00	EXCURSION	Mountain
<b>Saturday May 14</b>	07:00-11:00	Breakfast	
	09:00-12:00	Departure of participants	





<http://www.aeroportoradea.ro/en/>




<http://www.cfrcalatori.ro/191>



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## OFFICIAL OPENING & PLENARY LECTURES




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**Prof. Gang Kou, DHC of Agora University**

RECTOR'S PROPOSAL In 2012, Prof. Gang Kou, Executive Dean of School of Business Administration, Southwestern University of Finance and Economics (SWUFE) of Chengdu, China, was an invited speaker at International Conference on Computers, Communications and Control (ICCCC), organized by Agora University, contributing to the prestige of the meeting.

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### PROGRAM OF PLENARY SESSIONS (A.M.)

#### 2016 6th International Conference on Computers Communications and Control

**Wednesday, May 11, 2016**

**ROOM: Blue Aula, Agora University**

HOURL	ACTIVITY	PLACE
09:30-10:50	Official Opening Ceremony + Keynote lecture: <b>Prof. Enrique HERRERA-VIEDMA</b> <i>Intelligent Decision Making and Consensus</i> Chair: Acad. F.G. FILIP	Agora University Blue Aula
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**PROGRAM OF PLENARY SESSIONS (P.M.)**  
**2016 6th International Conference on Computers Communications and Control**

**Wednesday, May 11, 2016**

**ROOM: S1, Hotel President**

<b>HOUR</b>	<b>ACTIVITY</b>	<b>PLACE</b>
16:00-17:00	Keynote lecture: <b>Acad. Gintautas DZEMYDA</b> <i>Methods and Applications of the Multidimensional Data Visualization</i> Chair: Prof. I. MOISIL	Hotel President Room S1
17:00-17:30	Coffee break	Hotel President
17:30-18:30	Keynote lecture: <b>Acad. Florin Gheorghe FILIP</b> <i>From Fitt's list to modern incremental platforms: the impact of modern I&amp;CT technologies</i> Chair: Prof. G. KOU	Hotel President Room S1
18:30-19:30	Keynote lecture: <b>Acad. Zenonas TURSKIS</b> <i>Lithuanian School on Multiple Criteria Decision Making</i> Chair: Prof. E. HERERRA-VIEDMA	Hotel President Room S1



Prof. E. HERERRA-VIEDMA  
SPAIN



Prof. I. MOISIL  
ROMANIA



Prof. G. KOU  
CHINA



Acad. G. DZEMYDA  
LITHUANIA



Acad. F.G. FILIP  
ROMANIA



Acad. Z. TURSKIS  
LITHUANIA

## PROGRAM OF PARALLEL SESSIONS

### 2016 6th International Conference on Computers Communications and Control

**Thursday, May 12, 2016**

**ROOM: S1, Hotel President**

**Coffee break: 11:00-11:30**

#### **Special Session 4: Advanced Decision Support Systems**

**Chairs:** *Milan Stanojević & Astrid Oddershede & Víctor Olivares*

**Room: S1**

Analysis of Available Cloud Computing Models to Support Cloud Adoption Decision Process in an Enterprise <i>Ognjen Pantelić, Ana Pajić and Ana Nikolić</i> SERBIA	09:00-09:20
Serial Multimodal Biometric Systems Based on Optimized Thresholds <i>Milan Stanojević, Ivan Milenković, Dušan Starčević and Bogdana Stanojević</i> SERBIA	09:20-09:40
A Model for Storage Facility Design with Energy Costs <i>Ivan S. Derpich Juan M. Sepulveda</i> CHILE	09:40-10:00
A Comparative Analysis of Data Warehouse Data Models <i>Ivan Bojičić, Zoran Marjanović, Vladan Jovanović, Nina Turajlić, Marko Petrović and Milica Vučković</i> SERBIA	10:00-10:20
Multi-Criteria Decision Model for Assessing Arsenic Abatement Technology in Chilean Mining <i>Claudio Macuada, Astrid Oddershede and Felisa Cordova</i> CHILE	10:20-10:40
Design of Drone Fleet Management Model in A Production System of Customized Products <i>Víctor Olivares and Felisa Cordova</i> CHILE	10:40-11:00

#### **Special Session 4: Advanced Decision Support Systems**

**Chairs:** *Claudia Duran San Martin & Robert Györfödi*

**Room: S1**

Model for the Organization, Storage and Processing of Large Data Banks of Physiological Variables <i>Fredi Palominos, Hernan Diaz, Felisa Córdova, Lucio Cañete and Claudia A. Durán</i> CHILE	11:30-11:50
Management of Intellectual Capital on a System of Accounting Information Management <i>Regiane Piontkewicz, Maria Do Carmo Duarte Freitas, Avanilde Kemczinski and Claudia Duran San Martin</i> BRAZIL & CHILE	11:50-12:10



Coordination and Return Uncertainties in Closed Loop Supply Chains <i>Juan Pedro Sepúlveda Rojas and Paulo Andrés Benitez-Fuentes</i> CHILE	12:10-12:30
Analysis of Synergic Relationship in a Chilean Medium-Sized Port: An Approach from the Simulation of Transformation Matrix of Eigenvalues <i>Claudia Duran and Felisa Cordova</i> CHILE	12:30-12:50
Theoretical Aspects of the Information and Knowledge Engineering <i>Maria Do Carmo Duarte Freitas, Ricardo Mendes Jr, Guilherme Frederico, Ricardo Siebenrok Odorczyk, Felisa Cordova and Claudia Duran San Martin</i> BRAZIL & CHILE	12:50-13:10
A System of Categorization and Classification Based on Certain Criteria <i>Robert Györödi, Cornelia Györödi, Anamaria Tontea and Livia Bandici</i> ROMANIA	13:10-13:30

## PROGRAM OF PARALLEL SESSIONS

### 2016 6th International Conference on Computers Communications and Control

**Thursday, May 12, 2016**

**ROOM: S2, Hotel President**

**Coffee break: 11:00-11:30**

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

**Chair:** *Yezid Donoso & Dominic Bucerzan*

**ROOM: S2**

The Performance of Neural Network – Statistical Evaluation <i>H.G. Hovhannisyan, S.V. Verlinski, R. Ciudin and Marius Cioca</i> ARMENIA & ROMANIA	09:00-09:20
Delay/Disruption Tolerant Networks – Based Message Forwarding Algorithm for Rural Connectivity Applications <i>Carlos Velasquez and Yezid Donoso</i> COLOMBIA	09:20-09:40
Obfuscation Procedure, based on the Insertion of a Dead Code into Crypter <i>Cristian Barria, Claudio Cubillos, David Cordero, Robinson Osses</i> CHILE	09:40-10:00
A Comparative Approach of the Efficiency of Modern Steganography Techniques for Mobile Devices <i>Dominic Bucerzan, Crina Rațiu</i> ROMANIA	10:00-10:20
Proposed Classification of Malware, Based on Obsucation <i>Cristian Barria, Claudio Cubillos, David Cordero, Miguel Palma</i> CHILE	10:20-10:40
A Delay-Sensitive Mathematical Model Approach and a Distributed Algorithm for Mobile Wireless Sensor Networks <i>German Montoya and Yezid Donoso</i> COLOMBIA	10:40-11:00
The Maximum Flows in Bipartite Dynamic Networks with Lower Bounds. The Static Approach <i>Camelia Schiopu and Eleonor Ciurea</i> ROMANIA	11:30-11:50

#### **Special Session 3: Computational Intelligence Methods**

**Chair:** *Valeriu Beiu & Ivan Derpich*

**ROOM: S2**

A Comparative Study of Computational Intelligence Techniques Applied to PM2.5 Air Pollution Forecasting <i>Mihaela Oprea, Sanda Florentina Mihalache and Marian Popescu</i> ROMANIA	11:50-12:10
Comparison of Wrapper and Filter Feature Selection Algorithms on Human Activity Recognition <i>Jozsef Suto, Stefan Oniga and Petrica Pop Sitar</i> HUNGARY & ROMANIA	12:10-12:30

<p>Centrality Measures in Large and Sparse Networks  <i>Fuad Aleskerov, Natalia Meshcheryakova, Sergey Shvydun and Vyacheslav Yakuba</i>  RUSSIA</p>	12:30-12:50
<p>McEliece's Public Key Cryptosystem Based On Non-Binary Algebraic Codes  <i>Hugo Rodríguez, Jose Alejandro Perez, Ismael Soto, Cesar Azurdia, Carolina Lagos and Ivan Derpich</i>  CHILE</p>	12:50-13:10
<p>Linguistic Interpretation of Speech Errors  <i>Daniela Gîfu and Marius Cioca</i>  ROMANIA</p>	13:10-13:30



**PROGRAM OF PARALLEL SESSIONS**  
**2016 6th International Conference on Computers Communications and Control**

**Thursday, May 12, 2016**  
**ROOM: S3, Hotel President**  
**Coffee break: 11:00-11:30**

**Special Session 5: Fuzzy Control, Modelling and Optimization**  
**Chair:** *Gaston Lefranc & Doina Zmaranda*  
**ROOM: S3**

Numerical Algorithms for Lyapunov Stability Analysis of Interpolative Control Structures <i>Sanda Dale, Doina Zmaranda, Helga-Maria Silaghi and Gianina Gabor</i> ROMANIA	09:00-09:20
A Novel Framework for the Parallel Solution of Combinatorial Problems Implementing Tabu Search and Simulated Annealing Algorithms <i>L.G. Guzman E.D. Nino Ruiz C.J. Ardila D. Jabba W. Nieto</i> COLOMBIA	09:20-09:40
A Fuzzy Approach for on-line Error Compensation During Robotic Welding <i>Ignacio Davila Rios, Ismael Lopez-Juarez, Gerardo M. Mendez, Roman Osorio-Comparan and Gaston Lefranc and Claudio Cubillos</i> CHILE	09:40-10:00
Adaptive Neuro-Fuzzy Inference System for Kinematics Solutions of Redundant Robots <i>Mihai Crenganis, Radu Breaz, Gabriel Racz and Octavian Bologa</i> ROMANIA	10:00-10:20

**Special Session 2: Data Mining and Intelligent Knowledge Management**  
**Chair:** *Yi Peng & Helga Maria Silaghi*  
**ROOM: S2**

Use of Informal Knowledge Sources and Net Generation <i>Dijana Karuovic, Dragana Glusac, Dragan Grahovac and Dragica Radosav</i> SERBIA	10:20-10:40
Enterprise Architecture Framework Oriented to Cloud Computing Services <i>Wilson Nieto Bernal, Garyn Carrillo Caballero, , Jose Oviedo Sanchez and Heyder Páez-Logreira</i> COLOMBIA	10:40-11:00
Opinion Evolution of a Social Group with Extreme Opinion Leaders <i>Yiyi Zhao and Gang Kou</i> CHINA	11:30-11:50
Speed Computation in Movement followed by Accurate Positioning of Industrial Robots <i>Liliana Marilena Matica and Horea Oros</i> ROMANIA	11:50-12:10
Decision Based on Lattice Order Preference Structure <i>Mingshan Zhang, Daji Ergu and Gang Kou</i> CHINA	12:10-12:30

Cartesian Coordinates Computation with Interpolation Algorithms of Differential Numerical Analysis for Industrial Robot Motion <i>Liliana Marilena Matica, Zoltan Kovendi, Helga Maria Silaghi, Claudiu Costea</i> ROMANIA	12:30-12:50
Data Mining and Knowledge Discovery Tools for Human Microbiome Big Data <i>Oana Geman, Iuliana Chiuchisan and Mihai Covasa</i> ROMANIA & USA	12:50-13:10
New Methods of Pattern Analysis in the Study of Iris Anderson-Fisher Data <i>Alexey Myachin</i> RUSSIA	13:10-13:30

## PROGRAM OF PARALLEL SESSIONS

### 2016 6th International Conference on Computers Communications and Control

**Thursday, May 12, 2016**

**ROOM: S4, Hotel President**

**Coffee break: 11:00-11:30**

#### **Special Session 4: Advanced Decision Support Systems**

**Chair:** *Marius Cioca & Claudio Cubillos*

**Room: S4**

A New Colour Image Segmentation <i>Gustavo Scheleyer, Claudio Cubillos, Ginno Millan, Roman Osorio and Gaston Lefranc</i> CHILE	11:30-11:50
Construction of Decision Support System in Business Design Based on Integration of Information Technology <i>G.S. Karakozov, G.B. Virabyan, S.V. Verlinski, R. Ciudin and Marius Cioca</i> ARMENIA & ROMANIA	11:50-12:10
Data Analysis Methods Related to Energetic Consumption in Copper Mining - a Test Case in Chile <i>Carolina Lagos, Sebastian Gutierrez, Felisa Cordova, Guillermo Fuertes, and Raúl Carrasco</i> CHILE	12:10-12:30
Automatic Parameter Configuration for an Elite Solution Hyper-Heuristic Applied to the Multidimensional Knapsack Problem <i>Enrique Urra, Claudio Cubillos, Daniel Cabrera-Paniagua, Gaston Lefranc</i> CHILE	12:30-12:50
Neutrosophic Sets and their Application to MCDM Problems <i>Sorin Nadaban</i> ROMANIA	12:50-13:10
An Optimization Model Integrating Different Preference Formats Xiangrui Chao, Gang Kou and Yi Peng	13:10-13:30
The Dominance-Based Rough Set Approach as a Business Analytical Tool <i>Ayrton Benedito Gaia Do Couto and Luiz Flavio Autran Monteiro Gomes</i> BRAZIL	13:30-13:50



## Authors' Countries:

1. Armenia
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5. Colombia
6. Hungary
7. Lithuania
8. Mexico
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10. Russia
11. Serbia
12. Spain
13. United States



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