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PROGRAM OF ICCCC 2014

5th International Conference on Computers, Communications and Control

[Hotel President](#), Băile Felix, [Oradea](#), România, May 6-10, 2014



- Full Program (final):

General Program (at a glance):  [PDF \(196.1 KB\)](#)

DATE	HOUR	ACTIVITY	PLACE
Tuesday May 06	12:00-22:00	Arrival of participants Registration	Băile Felix (8 km from Oradea) Hotel President
Wednesday May 07	07:00-08:30	Breakfast	Hotel President
	09:30-10:30	Official Opening	Agora University
	10:30-11:30	Keynote lecture: Yong SHI	Agora University

	11:30-12:00	Coffee break	Agora University
	12:00-13:00	Keynote lecture: Fuad ALESKEROV	Agora University
	13:00-14:00	Keynote lecture: Pascale ZARATE	Agora University
	14:30-15:30	Lunch	Hotel President
	16:00-17:00	Keynote lecture: Ioan DUMITRACHE	Hotel President
	17:00-17:30	Coffee break	Hotel President
	17:30-18:30	Keynote lecture: Florin Gheorghe FILIP	Hotel President
	18:30-19:30	Free activities	
	19:30	Romanian Dinner	Hotel President
Thursday May 08	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 09	07:00-08:30	Breakfast	Hotel President
	08:30-:20:00	EXCURSION	Mountain Resort
Saturday May 10	12:00	Departure of participants	

Conference Program (in details)

Plenary Session

Wednesday, May 07, 2014, 09:30-14:00, Agora University, Blue Aula

09:30-10:30: Official Opening

10:30-11:30

Keynote Lecture: Big Data, Big Data Mining and Data Science.

Keynote Speaker: Yong Shi, University of Chinese Academy of Science, China.

Chair: Florin Gheorghe Filip, Romanian Academy, Romania.

12:00-13:00

Keynote Lecture: Choice Procedures in Big Data Analysis.

Keynote Speaker: Fuad Aleskerov, National Research University Higher School of Economics, Moscow, Russia and Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia.

Chair: Ioan Dzitac, Agora University of Oradea, Romania.

13:00-14:00

Keynote Lecture: Tools for Collaborative Decision Making.

Keynote Speaker: Pascale Zarate, University of Toulouse1, France.

Chair: Felisa Cordova, University of Santiago de Chile, Chile.

PRESIDENT HOTEL, ROOM S1

16:00-17:00

Keynote Lecture: From Computer Controlled Processes to Intelligent Cyber-Physical Systems.

Keynote Speaker: Ioan Dumitrache, Politehnica University of Bucharest, Romania.

Chair: Vinod Madan, Kalasalingam University, India.

17:00-17:30: Coffee break

17:30-18:30

Keynote Lecture: Evolutions in System Solutions and IT&Cs for Sustainable Development and Enterprise Integration

Keynote Speaker: Florin Gheorghe Filip, Romanian Academy

Chair: Yong Shi, University of Chinese Academy of Sciences, China

PARALLEL SESSIONS

Thursday, May 08, 09:00-14:00, Hotel President, Room S1

Special Session 01: Decision Support Systems for Supply Chain Management and their Dynamics. New Proposals and Directions

Thursday, May 08, 09:00-14:00 , Hotel President, Room S1

Chairs:

1. Angel Ortiz, Universidad Politecnica de Valencia, Spain.

2. Florin Gheorghe Filip, Romanian Academy, Romania.

09:00-09:20

A Model-Driven DSS for Managing the Shortage Planning of Ceramic Companies.

Maria del Mar Alemany Diaz, Angel Ortiz-Bas, Andres Boza, Vicente S. Fuertes-Miquel,

Universitat Politecnica de Valencia, Spain.

09:20-09:40

A Computer System for an Effective Personnel Selection

Mark Beregovsky¹, Ekaterina Kalugina¹, Inna Lola¹, Sergey Shvydun^{1,2},

¹National Research University Higher School of Economics, Moscow, Russia, ²Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia.

09:40-10:00

Multicriteria Supplier Classification for Decision Support Systems: Comparative Analysis of Two Methods

Juan Sepulveda, Ivan Derpich,

University of Santiago de Chile, Chile.

10:00-10:20

Event Management in Decision-Making processes with Decision Support Systems

Andres Boza, Maria del Mar Eva Alemany, Eduardo Vicens, Llanos Cuenca,

Universitat Politecnica de Valencia, Spain.

10:20-10:40

An Algorithm for Production Planning Based on Supply Chain KPIs

Dragana Makajic-Nikolic, Sladjan Babarogic, Danica Lecic -Cvetkovic, Nikola Atanasov,

University of Belgrade, Serbia.

10:40-11:00

Choice of Countermeasures in Project Risk Management

Dorota Kuchta^{1,2}, Dariusz Skorupka²,

¹Wroclaw University of Technology, Poland, ²Tadeusz Kosciuszko Military Academy of Land Forces, Wroclaw, Poland.

11:00-11:30 Coffee break

11:30-11:50

Mathematical Decision Model for Reverse Supply Chains Inventory

Luminita Duta¹, Florin Gheorghe Filip², Constantin-Bala Zamfirescu³,

¹Valahia University of Targoviste, Romania, ²Romanian Academy, ³Lucian Blaga University of Sibiu, Romania.

11:50-12:10

Decision Model for Assessing Healthcare ICT Support Implications: User Perception.

Astrid M. Oddershede, Felisa M. Cordova, Francisco J. Watkins, Rolando Carrasco¹,

University of Santiago de Chile, Chile, ¹School of IEEE, Newcastle University, UK.

12:10-12:30

New High-precision Efficient Models of Pattern Analysis

Alexey Myachin

National Research University Higher School of Economics, Russia

12:30-12:50**A Dynamic Assignment Simulation Model Using Petri Nets Applied to a Public Penal Defensory.****Felisa M. Cordova, Fernando H. Cifuentes, Astrid M. Oddershede***University of Santiago, Chile.***12:50-13:10****Cloud Service Management System for Innovative Clusters. Application for North-West Region of Romania****Dana Popescu¹, Anca Dodescu¹, Petru Filip^{2,3,1}**¹University of Oradea, ²Dimitrie Cantemir Christian University, ³Agora University of Oradea, Romania.**13:10-13:30****Eco-Horizon 2020: Multifunctional Scenario Interface for Biologists****Ralf D. Fabian¹, Cristina I. Cismas-Brumar¹, Adriana Manolescu², Gabriela Bologa²**¹Lucian Blaga University of Sibiu, ²Agora University of Oradea, Romania.**13:30-14:00** Hotel President, Room S1:

CONCLUSIONS

Special Session 02: Network Optimization and Security

Thursday, May 08, 09:00-14:00

Hotel President, Room S2

Chairs:

1. Yezid Donoso, University de los Andes, Colombia.
2. Vinod Madan, Kalasalingam University, India.

09:00-09:20**A Multihoming Load Balancing Algorithm for a Fairness Resource Allocation in Heterogeneous Wireless Networks.****Yezid Donoso¹, Carlos Lozano-Garzon^{1,2}, Miguel Camelo², Pere Vila²,**¹Universidad de los Andes, Bogota, Colombia, ²Universitat de Girona, Girona, Spain.**09:20-09:40****Opportunistic Forwarding Algorithm for Delay Tolerant Networks in Rural Applications****Carlos Velasquez-Villada¹, Yezid Donoso¹, Fernando Solano²,**¹Universidad de los Andes, Bogota, Colombia, ²Warsaw University of Technology, Poland.**09:40-10:00**

An online Load Balancing Algorithm for a Hierarchical Ring Topology.**Ciprian I. Păduraru,***University of Bucharest, Romania.***10:00-10:20****PCA Encrypted Short Acoustic Data Inculcated in Digital Color Images,****S.H. Karamchandani^{1,2}, S.N. Merchant¹, K.J. Gandhi², S.R. Gosalia², V.K. Madan³, U.B. Desai⁴,***¹Indian Institute of Technology, Bombay, India, ²D.J. Sanghvi College of Engineering, Mumbai, India, ³Kalasalingam University, Tamil Nadu, India, ⁴Indian Institute of Technology, Hyderabad, India.***10:20-10:40****Binding Android Steganography by Windows Steganography.****Dominic Bucerzan, Crina Rațiu,***¹Aurel Vlaicu University of Arad, Romania, ²Vasile Goldis Western University of Arad, Romania.***10:40-11:00****Optimization of Energy Consumption in WSN by Using a Facility Location Model.****Ivan Derpich, Juan Sepulveda, Victor Olivares,***University of Santiago de Chile, Chile.***11:00-11:30 Coffee break****11:30-11:50****An Energy Efficient and Predictive Routing Algorithm using a Double Kalman Filter for Mobile Wireless Sensor Networks.****Yezid Donoso, German A. Montoya,***Universidad de Los Andes, Bogota, Colombia.***11:50-12:10****Auditing Multi-domain Policies in Programmable Networks.****Yezid Donoso¹, Ferney A. Maldonado-Lopez¹, Fernando Solano²***¹Universidad de los Andes, Colombia, ²Warsaw University of Technology, Warsaw, Poland.***12:10-12:30****Structuring a Mesh Wireless Network.****Francisco J. Watkins, R.A. Hinojosa, Astrid M. Oddershede, Felisa M. Cordova,***University of Santiago de Chile, Chile.***12:30-12:50****Synthetic Network Traffic Dataset Generation for Behavioral Profiling.****Raman Singh, Harish Kumar, R.K. Singla,***Panjab University, Chandigarh, India.*

12:50-13:10

On Access Control for the Online Social Networks.

M.J. Abinash, V. Vasudevan,

Kalasalingam University, India.

13:10-13:30

Application of the Analysis of Self-similar Teletraffic with Long-range Dependence (LRD) at the Network Layer Level.

Ginno Millan¹, Gaston Lefranc²,

¹Universidad Catolica del Norte, Coquimbo, Chile, ²Pontificia Universidad Catolica de Valparaiso, Chile.

13:30-14:00 Hotel President, Room S1

CONCLUSIONS

Special Session 03: Data Mining and Intelligent Knowledge Management

Thursday, May 08, 09:00-14:00, Hotel President, Room S3

Chairs:

1. Claudiu Kifor, *Lucian Blaga University of Sibiu, Romania.*
2. Bogdana Stanojevic, *Mathematical Institute of the Serbian Academy of Sciences and Arts, Serbia.*

09:00-09:20

Simulation of Induced Bias Matrix Model for Consistency Test.

Daji Ergu¹, Yi Peng², Gang Kou³,

¹Southwest University for Nationalities, Chengdu, China, ²University of Electronic Science and Technology, Chengdu, China, ³Southwestern University of Finance and Economics, Chengdu, China.

09:20-09:40

Dynamic Comprehensive Evaluation Method with Twice-aggregation.

Guangxu Li¹, Yi Peng¹, Gang Kou²,

¹University of Electronic Science and Technology of China, Chengdu, China, ²Southwestern University of Finance and Economics, Chengdu, China

09:40-10:00

Minimum Mean Square Error Estimators for the Exponential SSALT Model.

Changsheng Lin¹, Gang Kou², Yi Peng³,

¹University of Electronic Science and Technology of China, Chengdu, China, ¹Yangtze Normal University, Chongqing, China, ²Southwestern University of Finance and Economics, Chengdu, China, ³University of Electronic Science and Technology of China, Chengdu, China

10:00-10:20

A Conceptual Architecture of Ontology Based Knowledge Management System for Failure Mode and Effects Analysis.

Zobia Rehman^{1,2}, Claudiu Vasile Kifor¹, Stefania Kifor¹,

¹Lucian Blaga University of Sibiu, Romania, ²Comsats Institute of Information Technology, Pakistan.

10:20-10:40

Representing IT Performance Management as Metamodel

Ana Pajic¹, Ognjen Pantelic², Bogdana Stanojevic²

¹University of Belgrade, Serbia, ²Mathematical Institute of the Serbian Academy of Sciences and Arts, Belgrade, Serbia.

10:40-11:00

Machine Minimization for Scheduling Jobs with Interval Constraints and Limited Machine Workload Capacity: A Resolution Method Based on Evolutionary Game-theoretical Model.

Oscar C. Vasquez^{1,2}, Luis Osorio-Valenzuela¹, Juan M. Sepulveda¹, Ignacio J. Vargas³,

¹University of Santiago de Chile, Chile, ²Pierre and Marie Curie University, Paris, France, ³Diego Portales University, Chile

11:00-11:30 Coffee break

11:30-11:50

Control of Feed Flow Rate with Fuzzy Logic for a Cement Mill.

Claudiu Raul Costea, Helga Maria Silaghi, Doina Zmaranda, Marius Alexandru Silaghi,

University of Oradea, Romania

11:50-12:10

Infilling of Rainfall Information using Genetic Programming.

C. Sivapragasam¹, Nitin Muttill¹, Catherin Jesila²,

S. Visweshwaran,²

¹Kalasalingam University, India, ²Victoria University, Australia.

12:10-12:30

A Comprehensive Approach to Offline Advanced Error Troubleshooting in Intelligent Manufacturing Systems.

Lehel Csokmai¹, Radu Țarcă¹, Constantin Bungău¹, Geza Husi²

University of Oradea, Romania, University of Debrecen, Hungary.

12:30-12:50

A Method for Training a Neural Network with a Small Number of Examples Used for Robot Control.

Emilia Ciupan, Florin Lungu, Cornel Ciupan,

Technical University of Cluj-Napoca, Romania.

12:50-13:10

Fuzzy Euclidian Normed Spaces.

Sorin Nădăban,

Aurel Vlaicu University of Arad, Romania.

13:10-13:30

PARMODS: A Parallel Framework For MODS Metaheuristics.

Elias D. Nino Ruiz, Stella Miranda,

Universidad del Norte, Barranquilla, Colombia.

13:30-14:00 Hotel President, Room S1

CONCLUSIONS

Special Session 04: Soft Computing and Intelligent Applications

Thursday, May 08, 09:00-14:00, Hotel President, Room S4

Chairs:

1. Fuad Aleskerov, *National Research University Higher School of Economics, Moscow, Russia & Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia.*
2. Gaston Lefranc, *Pontificia Universidad Catolica de Valpaiso, Chile.*

09:00-09:20

A Mathematical Model of an Effective Personnel Selection in Network Structures.

Fuad Aleskerov^{1,2}, Sergey Shvydun^{1,2}, Ekaterina Kalugina¹,

¹National Research University Higher School of Economics, Moscow, Russia, ²Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia.

09:20-09:40

Colony of Robots Based on Multi-Agent System for Closed Three-Dimensional Enviroments Exploration.

Ian Hughes¹, Claudio Cubillos¹, Gaston Lefranc¹, Ginno Millan²,

¹Pontificia Universidad Catolica de Valpaiso, Chile, ²Universidad Catolica del Norte, Coquimbo, Chile.

09:40-10:00

Using Fuzzy Logic for the Estimation of the Technical State of Automotive Disc Brakes.

Marius Băban, Călin Florin Băban, Constantin Bungău, George Dragomir, Rareș Mihai Pancu,

University of Oradea, Romania.

10:00-10:20

Sentiment Analysis in Social Media.

Daniela Gifu¹, Marius Cioca²,

¹Alexandru Ioan Cuza University of Iasi, Romania, ²Lucian Blaga University of Sibiu, Romania.

10:20-10:40

Neural Model Used to Predict the Cost of Abrasive Waterjet Cutting Process.

Emilia Ciupan, Florin Lungu, Cornel Ciupan,

Technical University of Cluj-Napoca, Romania.

10:40-11:00

Procedural Aspects Concerning Intelligent Design Environment for Real-Time Applications.

Sanda Dale¹, Helga Silaghi¹, Doina Zmaranda¹, Ulrich Rohde²,

¹University of Oradea, Romania, ²Brandenburgischen, Germany.

11:00-11:30 Coffee break

11:30-11:50

Implementing BPMN 2.0 scenarios for AAL@Home Solution.

Lucia Rusu¹, Marinela Mailat¹, Bogdan Cramariuc², Dan Bența³,

¹Babes Bolyai University of Cluj-Napoca, Romania, ²IT Center for Science and Technology Bucharest, Romania,

³Agora University of Oradea, Romania.

11:50-12:10

Software Application for Automatic Financial Data Capture in EU Funded Projects Reporting System.

Alin Mihailă¹, Lucia Rusu¹, Dan Bența³,

¹Babes Bolyai University of Cluj-Napoca, Romania, ²Agora University of Oradea, Romania.

12:10-12:30

GLM Analysis for fMRI using Connex Array.

Andrei Țugui,

Politehnica University of Bucharest, Romania.

12:30-12:50

On Computer Representation of Simple Geometric Objects.

Constantin Bungău¹, Ioan Dzițac^{2,3}, Tiberiu Vesselenyi¹

¹University of Oradea, Romania, ²Aurel Vlaicu University of Arad, ³Agora University of Oradea, Romania.

12:50-13:10

Numerical Simulation on the Three-Dimensional Unsteady Compressible Flow Characteristics inside a High-Speed Control Valve.

Cheol Heui Han¹, Sang Jin Ma¹, Myung Jin Chung²,

¹Korea National University of Transportation, Republic of Korea, ²Korea Polytechnic University, Republic of Korea.

12:50-13:10

Control System of Auto Moving Vehicle using for Artificial Turf Ground Performance Test.

Myung Jin Chung, Donghyuk Cha,

Korea Polytechnic University, Republic of Korea.

13:30-14:00 Hotel President, Room S1

CONCLUSIONS

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