



24-26 August 2016
Arad, Romania

7th International Workshop on Soft Computing Applications

PROGRAM



Centrul
Municipal
de Cultură
Arad



7th International Workshop on Soft Computing Applications - SOFA 2016

Organized by:



“Aurel Vlaicu” University of
Arad



University of
Belgrade

**IEEE
Romania**



BTM Resources

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Computer Voice Systems

WELCOME MESSAGE

Soft computing (SC) is a collection of methodologies which are trying to cope with the main disadvantage of conventional (hard) computing: the poor performances when working in uncertain conditions. The fundamental idea of soft computing is to emulate human-like reasoning. The classic constituents of SC are fuzzy logic, neural network theory, and probabilistic reasoning, but new methods are continuously emerging: belief networks, genetic algorithms, anytime algorithms, chaos theory, some parts of learning theory, etc. Due to the large variety and complexity of the field, the constituting methods of SC are not competing for a comprehensive ultimate solution. Instead, they are complementing each other, for dedicated solutions adapted to each specific problem. Hundreds of concrete applications are already available in control, decision making, pattern recognition, and robotics. The SC systems are tolerant to imprecision, uncertainty, and partial truth. Their main advantages are tractability, robustness, and low cost implementations. At the same time, SC is a major developing vector of Artificial Intelligence.

Our pleasant duty is to gratefully acknowledge the support provided by the sponsors and co-sponsors of the SOFA 2016 Workshop, to thank the reviewers for their work and all those involved in the preparation of the workshop and the program. Last but not least, we would like to thank the authors for their valuable contribution!

We wish all participants a pleasant stay in Arad
and a successful workshop!

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GENERAL INFORMATION

Venue

The 7th edition of the SOFA Workshop will take place in Hotel Continental, in Arad, Romania. The conference room will be located in the hotel mezzanine (Vasile Goldiș Room).

Address: Revolutiei Blvd., no. 79-81, 310130 Arad

e-mail: forum.arad@continentalhotels.ro

Telephone: +40 372 578 800

web: <http://continentalhotels.ro/Continental-Forum-Arad/en/>

Registration desk

A registration desk will be open all throughout the event where participants can register and receive information on the event.

Language

The official language of the workshop is English.

Presentations

Presentations can be made by using data projectors. All authors are kindly requested to take their presentation on a USB and upload it on the conference laptop during the break before their session. We do not support authors in using their own laptop.

Each presentation will be a maximum of 15 minutes and there will be a discussion time at the end of each session.

Posters

All posters will be on display throughout the duration of the workshop in front of the conference room. Posters are expected to be A1 format.

Best Student Paper Competition

The papers submitted as student papers will participate in the Best Student Paper Competition. A committee will be evaluating them during the workshop and awards will be given during the closing session.

Internet

There will be free of charge internet facilities for the workshop participants.

Social programmes

- A **Welcome Reception** will take place on the evening of the first day at Hotel Continental (Mondo Restaurant, ground floor).
- The **Conference Dinner** will take place on the evening of the 2nd day, at Ratio Restaurant. Participants will be transferred to the location by foot (the meeting for departure will be in the Continental Hotel lobby). The restaurant is 10-minute walking distance from the hotel across the Mures River.

Only participants with full registration fees have this dinner covered. Student participants can purchase tickets for the dinner at the registration desk during *the first workshop day*.

Insurance

The Organizers of the workshop do not provide insurance and do not take responsibility for any loss, accident or illness that might occur during the workshop or in the course of travel to or from the meeting site. It is therefore the responsibility of the participants to check their coverage with their insurance provider.

Voltage

The electricity supply is 220 V AC (50 Hz).

Weather

Weather in August is very hot, ranging between 28 and 38 degrees Celsius.

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Program

SOFA 2016

Wednesday, August 24th

08.30 – 09.30 Registration

Hotel Continental, mezzanine

The registration desk will be open all throughout the conference.

09.30 – 09.45 Opening

Hotel Continental, mezzanine - Vasile Goldiș Room

09.45 – 10.30 Keynote presentation I

Hotel Continental, mezzanine - Vasile Goldiș Room

Chair: Valentina E. Balas

Michio Sugeno (Japan)

Introduction to Choquet calculus

10.30 – 10.50 Coffee break

Hotel Continental, mezzanine

10.50 – 12.15 Methods and Applications in Electrical Engineering

Hotel Continental, mezzanine - Vasile Goldiș Room

Chair: Octavian Proștean, Dorin Isoc

Digital Sunshade using Head-up Display

Razvan Miclea, Silea Ioan, Sandru Florin

Basic Expert System

Marius M. Balas, Robert A. Boran

Expert system for predictive diagnosis (1) Principles and knowledge base
Dorin Isoc

Expert system for predictive diagnosis (2) Implementing, testing, using
Dorin Isoc

GA based Multi-Stage Transmission Network Expansion Planning
A. Simo, St. Kilyeni, **C. Barbulescu**

Discussions: 12.05-12.15

12.15 – 13.15 Lunch break

Hotel Continental, Restaurant Mondo (ground floor)

13.15 – 14.00 Keynote presentation II

Chair: Valeriu Beiu

Anna Esposito (Italy)

Emotional facial expressions: Communicative displays or psychological universals?

14.00 – 14.50 Knowledge-Based Technologies for Web Applications, Cloud Computing, Security Algorithms and Computer Networks

Chair: Dominic Bucerzan

About the applications of the similarity of websites regarding HTML-based webpages

Doru Anastasiu Popescu, Ovidiu Domşa, **Nicolae Bold**

Energy Efficient Cache Node Placement using Genetic Algorithm with Probabilistic Delta Consistency using Flexible Combination of Push and Pull algorithm for Wireless Sensor Networks

Juhi R. Srivastava and T.S.B Sudarshan

A Fast JPEG2000 Based Crypto-Compression Algorithm: Application to the Security for Transmission of Medical Images

Med Karim Abdmouleh, Hedi Amri, Ali Khalfallah, and Med Salim Bouhlel

Discussions: 14.45-14.50

14.50 – 15.05 Short break

15.05 – 16.45 Biomedical Applications

Chair: Oana Geman, Vasile Stoicu-Tivadar

Deep Learning Tools for Human Microbiome Big Data

Oana Geman, Iuliana Chiuchisan, Mihai Covasa, Mariana Milici, Dan Milici

Evaluating the User Experience of a Web Application for Managing Electronic Health Records

Daniel-Alexandru Jurcau, Vasile Stoicu-Tivadar

Multi Framing HDR for RMN Brain Images

Marius M. Balas, Adelin Sofrag

Discussions: 15.50-15.55

Computer aided posture screening using the Microsoft Kinect on professional computer users for malicious postures

Norbert Gal-Nadasan, Vasile Stoicu-Tivadar

IT complex solution supporting continuity of care

Mihaela Crişan-Vida, Liliana Bărbuţ, Alexandra Bărbuţ, Lăcrămioara Stoicu-Tivadar

Skull stripping for MRI images using morphological operators

Joanna Swiebocka-Wiek

Discussions: 16.40-16.45

16.45 – 17.00 Coffee break

17.00 – 19.45 Image, text and signal processing

Chair: Annamaria R. Varkonyi-Koczy, Dorel Aiordachioaie

Nonlinear Fourth-order Diffusion-based Model for Image Denoising

Tudor Barbu

On Time-Frequency Image Processing For Change Detection Purposes

Dorel Aiordachioaie

Adaptive Multi-round Smoothing based on the Savitzky-Golay Filter

Jozsef Dombi, Adrienn Dineva

Point Cloud Processing with the Combination of Fuzzy Information Measure and Wavelets

Adrienn Dineva, Annamaria R. Varkonyi-Koczy, Vincenzo Piuri, Jozsef K. Tar

Significance of Glottal Closure Instants detection algorithms in vocal emotion conversion

Susmitha Vekkot, **Shikha Tripathi**

Discussions: 18.15 – 18.25

Analysis of Image Compression Approaches Using Wavelet Transform and Kohonen's Network

Mourad Rahali, Habiba Loukil, Mohamed Salim Bouhleb

Application of Higham and Savitzky-Golay Filters to Nuclear Spectra

Vansha Kher, Garvita Khajuria, Purnendu Prabhat, Meena Kohli, **Vinod K. Madan**

The efficiency of perceptual quality metrics 3D meshes based on the human visual system

Nessrine Elloumi, Habiba Loukil Hadj Kacem, Med Salim Bouhleb

Fireworks Algorithm based Image Registration

Silviu-Ioan Bejinariu, Hariton Costin, Florin Rotaru, **Ramona Luca**, Cristina Diana Niță, Camelia Lazăr

DiscreteWavelet Transforms for PET Image Reduction/Expansion (wavREPro)

Hedi Amri, Malek Gargouri, Med Karim Abdmouleh, Ali Khalfallah, Bertrand David, Med Salim Bouhleb

Discussions: 19.40 – 19.45

20.10 – 22.00 Welcome reception

Hotel Continental, Mondo Restaurant (ground floor)

Thursday, August 25th

09.00 – 09.45 Keynote presentation III

Chair: Michio Sugeno

Mika Sato-Ilic (Japan)

Soft Data Analysis based on Cluster Scaling

09.45 – 10.55 Machine Learning and Applications I

Chair: Antoanela Naaji, Valeriu Beiu

Model evaluation as approach to predict a diagnosis

Adriana Mihaela Coroiu

The Basics of Implementing Intelligent Social Networks

Stefan Cosmin Popa, Marius Constantin Popescu, **Antoanela Naaji**

The generation of tests of knowledge check using genetic algorithms

Doru Anastasiu Popescu, **Nicolae Bold**, Alexandru Ion Popescu

Algorithms for MOST techniques used to CAD/CAM and CNC technologies

Sandru Florin, Nanu Sorin, Belgiu George

Discussions: 10.45 – 10.55

10.55 – 11.15 Coffee break

11.15 – 12.00 Keynote presentation IV

Chair: Valentina E. Balas

Valeriu Beiu (Romania)

Why the Brain Can and the Computer Can't

12.00 – 12.50 Special Session: Business Process Management

Chair: Gabriela Proștean

Collaborative Business Process Solution Considering an Ontological Dimension of Process Models

Maria Laura Sebu, Horia Ciocarlie

Logistics scenario for wind turbine assembly based on ERP

Gabriela Prostean, Cristian Vasar, **Badea Andra**

Relieving supply chain through collaboration for wind turbine assembly based on AHP and DBR

Badea Andra, Gabriela Prostean, Cristian Vasar

Discussions: 12.45-12.50

12.50 – 13.50 Lunch break

Hotel Continental, Mondo Restaurant (ground floor)

13.50 – 14.40 Special Session: Business Process Management

Chair: Gabriela Prostean

New learning and new teaching in higher education. Formal vs Informal learning

Camelia Ciuclea, **Gabriela Prostean**, Diana Andone, Serban Miclea

Integrating e-learning platforms in teaching/learning. A critical review upon the Virtual Campus usage in UPT

Camelia Ciuclea, **Gabriela Prostean**, Diana Andone, Anca Draghici

Application of the Fuzzy-Pay-Off Method in the Valuation of a Financial Instrument

Mihaela Crăciun, Luliela Magdalena Csorba

Discussions: 14.35-14.40

14.40 – 16.00 Fuzzy Applications, Theory and Fuzzy and Control

Chair: Rajeeb Dey, Viorel Nicolau

Fuzzy Logic Control Strategy for a Three-Phase Electric Arc Furnace

Loredana Ghiormez, Octavian Prostean, Ioan Filip, Manuela Panoiu

On Fuzzy Estimation of Channel Noise Characteristics in MIMO Communication Systems

V. Nicolau, M. Andrei

Fuzzy-Expert System for Investments in Winemaking

Marius M. Balas, Emanuela V. Muller

Closed loop blood glucose regulation of Type 1 diabetic patient using Takagi-Sugeno fuzzy logic control

Anirudh Nath, Rajeeb Dey, Valentina E. Balas

Experimental implementation of fuzzy vision-based tracking control of quad-rotor

Hemjyoti Das, Aniket Samrat Mazumdar, Rajeeb Dey, Lintu Roy

Discussions: 15.55-16.00

16.00 – 16.15 Coffee break

16.15 – 17:05 Computational Intelligence in Education and Human Resources

Chair: Paul Hubert Vossen, Dana Balas-Timar

Distributive Fairness in Educational Assessment. Psychometric Theory meets Fuzzy Logic

Paul Hubert Vossen

Job Performance Assessment Scoring with Fuzzy AHP

Dana Balas-Timar

E-Learning Web Based Grid by Utilising P2P Technology in Presentation Broadcasting

Rafid Al-Khannak

Discussions: 17.00-17.05

17.05 – 18.05 Round Table Discussion: The theory of fuzzy sets and its real-world applications

Introduction: Annamaria Varkonyi-Koczy (Hungary)

Moderator: József Dombi (Hungary)

18:40 Departure for Conference Dinner

Ratio Restaurant. *Meeting point for departure: Hotel Continental lobby*

Friday, August 26th

08.30 – 09.15 Keynote presentation V

Chair: Valentina E. Balas

Rajeeb Dey (India)

Complex Dynamical System: Analysis and Control via Linear Matrix Inequality (LMI) techniques

09.15 – 11.10 Special Session: Soft Computing & Fuzzy Logic in Biometrics (SCFLB)

Chair: Adrian Ciobanu, Nicolae Popescu-Bodorin

A Circular Eccentric Iris Segmentation Procedure for LG2200 Eye Images
Cristina-Madalina Noaica

Iris Segmentation in the Last Decade – A Survey

C. M. Noaica, P.S. Penariu, V.C. Stroescu

Circular Fuzzy Iris Segmentation Using Isolines, Sine Law and Lookup Tables

N. Popescu Bodorin, V. E. Balas, **P.S. Penariu**

A Parallel Approach on Airport Runways Detection using MPI and Cimg

P.S. Penariu, N. Popescu Bodorin, V.C. Stroescu

Discussions: 10.15-10.20

Identifying Down Syndrome Cases by Combined Use of Face Recognition Methods

Vlad Dima, **Anca Ignat**, Cristina Rusu

Iris Recognition using Color and Texture Features

Ioan Păvăloi, **Anca Ignat**

Retinal Vessel Classification Technique

Florin Rotaru, Silviu-Ioan Bejinariu, Cristina Diana Niță, **Ramona Luca**, Mihaela Luca, Adrian Ciobanu

Discussions: 11.05-11.10

11.10 – 11.30 Coffee break

11.30 – 12.15 Keynote presentation VI

Chair: Marius Balas

Salil Bose (USA)

Online course: A Modern Trend of Teaching and Learning

12.15 – 13.20 Machine Learning and Applications II

Chair: Jozsef Dombi

Matrix-Valued Bidirectional Associative Memories

Calin Adrian Popa

Enhanced Gradient Descent Algorithms for Quaternion-Valued Neural Networks

Calin Adrian Popa

A reinforcement learning based approach to multiple sequence alignment

Ioan-Gabriel Mircea, Iuliana Bocicor, Gabriela Czibula

Supervised learning techniques for body mass estimation in bioarchaeology

Vlad-Sebastian Ionescu, Gabriela Czibula, Mihai Teletin

Discussions: 13.15-13.20

13.20 – 14.00 Lunch break

14.00 – 16.00 Special Session: Soft Computing Algorithms Applied in Economy, Industry and Communication Technology

Chair: Dominic Bucerzan, Mihaela Muntean

Introductory speaker, 14.00-14.30

Mihaela I. Muntean

Theory to Practice in Business Intelligence

Reliable Metrics for Image LSB Steganography on Mobile Platforms

Dominic Bucerzan, Ratiu Crina

Information System Security in the Context of Administrative Cooperation through Internal Market Information System
Stoian Camelia Daciana, **Dominic Bucerzan**

Discussions: 15.00-15.10

An Application of the Multi Period Decision Trees in the Sustainable Medical Waste Investments

Luiela Magdalena Csorba, **Mihaela Crăciun**

Containerizing Solution for a Highly Distributed Systems

Iovanov Vlad, **Buzgau Mihai**, Bucerzan Dominic

Data acquisition and processing with fusion sensors, used in algorithms for increasing accuracy of position measurement of mobile robots

Sandru Florin, Nanu Sorin, Negrea Romeo, Popescu Anca, Fericelel Sergiu

Discussions: 15.55-16.00

16.00 – 16.10 Short Break

16.10 – 17.00 Modelling and Applications in Textiles

Chair: Marius M. Balas, Cecilia Sîrghie

Specialized Software for Tracking and Management Machinery used in Textile Industry

Pavel Farcaș, Ciprian Pop-Moldovan, Marius Constantin Popescu

Treatment optimization for bioscouring in ultrasound of cotton/cottonised hemp blended fabrics

Monica Pustianu, Mihaela Dochia, **Cecilia Sîrghie**, Simona Gavrilaș, Daniel Tomescu

Fuzzy Methods Applied on the Control of Textile Biotechnologies

Marius M. Balas, Cecilia Sîrghie, Monica Pustianu, Mihaela Dochia, Simona Gavrilaș, Daniel Tomescu

Discussions: 16.55 – 17.00

17.00 Closing and Best Student Award

POSTERS

Issues regarding the tuning of a minimum variance adaptive controller
Ioan Filip, Iosif Szeidert, Octavian Prostean, Cristian Vasar

IoThings: A platform for building up the Internet of Things
Andrei Gal, Ioan Filip, Florin Dragan

Graphical Method For Evaluating And Predicting The Human Performance In Real Time
Mariana-Rodica Milici, Oana Geman, Iuliana Chiuchisan, Laurentiu-Dan Milici

Tremor Measurement System for Neurological Disorders Screening
Iulian Chiuchisan, Oana Geman, Rodica-Mariana Milici, Laurentiu-Dan Milici

Novel Method for Neurodegenerative Disorders Screening Patients using Hurst Coefficients on EEG Delta Rhythm
Roxana Todorean (Aldea), Oana Geman, Iuliana Chiuchisan, Valentina Balas, Valeriu Beiu

Wireless Sensor Networks Relay Node Deployment for Oil Tanks Monitoring
Ola E. Elnaggar, Rabie A. Ramadan and Magda B. Fayek

A Fuzzy Approach of Sensitivity for Multiple Colonies on Ant Colony Optimization
Camelia-M. Pinteau, Oliviu Matei, Rabie A. Ramadan, Mario Pavone, Muaz Niazi and Ahamad Taher Azar

Expert Scoring Algorithm of Job Performance Assesment
Ramona Lile

Fuzzy Fractional Derivative: A new definition
Marzieh Najariyan, Mehran Mazandarani, Valentina Emilia Balas

Imperialist Competition based Clustering Algorithm to Improve the Lifetime of Wireless Sensor Network

Marzieh Badkoobe, Ali Shokouhi Rostami, Farahnaz Mohanna, Ali Asghar Rahmani Hosseinabadi, Valentina Emilia Balas

Nature Inspired Partitioning Clustering Algorithms: A Review and Analysis

Behzad Saemi, Ali Asghar Rahmani Hosseinabadi, Maryam Kardgar, Valentina Emilia Balas

Environment description for blind people

J. S. Park, D. López De Luise, D. J. Hemanth, J. Pérez

Parametric Prediction Model using Expert System and Fuzzy Harmonic System

W. Bel, D. López De Luise, A. Asmis, D. Mansilla

lenSpecialized Software System for Heart Rate Variability Analysis: An Implementation of Nonlinear Graphical Methods

E. Gospodinova, M. Gospodinov, Nilanjan Dey, I. Domuschiev, Amira S. Ashour, Sanda Balas

Classifier Ensemble Selection based on mRMR Algorithm and Diversity Measures: An Application of Medical Data Classification

Soraya Cheriguene, Nabiha Azizi, Nilanjan Dey, Amira S. Ashour, Corina Mnerie, Fuqian Shi

Personal Health Record Management System using Hadoop Framework: An Application for Smarter Health Care

Bidyut Biman Sarkar, Swagata Paul, Nabendu Chaki, Cornel Barna, Noemi Rohatinovici, Iustin Olariu

Gene-Disease-Food Relation extraction from biomedical database

Wahiba Ben Abdessalem Karaa, Monia Mannai, Nilanjan Dey, Amira S. Ashour

Cluster Analysis for European Neonatal Jaundice

P. K. Nizar Banu, Hala S. Own, Teodora Olariu

Solving First Order Linear Fuzzy Differential Equations System

Mehran Mazandarani, Marzieh Najariyan, Valentina Emilia Balas

The Importance of Quantification of Data in Studies on the Health Effects of Exposure to Electromagnetic Fields Generated by Mobile Base Stations

SMJ Mortazavi, Valentina Emilia Balas, Atefeh Zamani, SAR Mortazavi, Omid Jaber, Ali Soleimani, Ali Zamani, Masoud Haghani

Adaptive Control of Networked Control Systems Subjected to Random Communication Delays

Seshadhri Srinivasan, G. Saravanakumar, B. Subathra, U. Kotta, N. Sundarajan, Srini Ramaswamy, and V. E. Balas

Epidemic Algorithm Based Optimal Power Flow in Electric Grids

K. Muniyasamy, B. Subathra, S. Parthasarathy, S. Seshadhri and Simona Dzitac

LIST OF PARTICIPANTS

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