

ISCIII'11

5th International Symposium
on
Computational Intelligence and Intelligent Informatics

PROGRAMME

September 15–17, 2011
Floriana, Malta

Technical Co-Sponsors:

IEEE Industrial Electronics Society

Co-Sponsors:

IEEE Hungary Section

IEEE SMC Hungary Chapter

IEEE CIS Hungary Chapter

Japan Society for Fuzzy Theory and Intelligent Informatics (SOFT)

Hungarian Fuzzy Association (HFA)

Óbuda University (Hungary)

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Special thanks

to the following reviewers:

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GENERAL INFORMATION

Venue:

Grand Hotel Excelsior – Great Siege Road, Floriana, FRN1810, Malta

Language:

The symposium language is English, no translation is provided.

Presentations:

Presentations can be made by using data projector. All authors are kindly asked to upload their presentation from an USB to the computer in the conference room during the breaks. For presenting a paper it is advisable not to use own computer.

Registration Desk

The registration desk will be open during the whole event.

IEEE Membership desk:

An IEEE membership desk is set up in the registration area for promoting IEEE membership among the attendance and in order to get new memberships.

Social Events:

Welcome Party – Grand Hotel Excelsior, Chart Room – September 15 evening
Symposium Dinner – Lo Squero Restaurant – September 16 evening

Weather:

The weather in September is generally warm and humid, with an average temperature of 29 degrees Celsius

Travel:

Valleta can easily be reached by air from all major European cities. Traffic in Malta drives on the left, as in the UK. Buses are the primary method of public transport, offering a cheap and frequent service to many parts of Malta. The vast majority of buses on Malta depart from a large circular terminus in Valletta.

Insurance:

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

Electricity:

Electricity in Malta uses a Voltage of 240 volts, 50cycles. Three-pin square British style plugs are used.

PROGRAM

September 15, Thursday

12:00-14:00 - Registration ROOM "BELLAVANTI"

14:00 – 14:10 Opening – János C. Fodor

14:10 – 15:10 SESSION I. – Chair: János C. Fodor

Documents, Speech and Image Processing

Geometrical approach to similarity representation in pattern recognition for speech-spectral deformation

Yoshinao Shiraki

A Novel Approach to Robust Fixed Point Transformations

Teréz A. Várkonyi, József K. Tar, Imre J. Rudas, Stefan Preitl, Radu-Emil Precup and Annamária R. Várkonyi-Kóczy

Unsupervised Selection of HMMs Architectures for Handwritten Text/Word Recognition

Mahdi Hamdani, Tarek M. Hamdani, Adel M. Alimi, Haikal El Abed, Volker Margner

15:10 – 15:40 Coffee Break

15:40 – 17:00 SESSION II. – Chair: Annamaria R. Varkonyi-Koczy

Intelligent Systems

Simulating Proactive Behaviour in Active Databases

K. Rabuzin

Toward Interactive TV

Olfa Bali, Hichem Karray, Anis Ben Ammar, Adel M. Alimi

Distributed, mobile, social system for road surface defects detection

Paweł Aksamit, Marek Szmechta

On the Control of a Rotary-Linear Switched Reluctance Motor

Ioana Benția, Mircea Ruba, Loránd Szabó

17:00 – 18:00 SESSION III. – Chair: Nicolae Tudoroiu

Fuzzy Logic, Neural Networks and Applications

Multirate Depth Control of an AUV by Neural Network Predictive Controller for Enhanced Situational Awareness

I. Astrov and A. Pedai

Joint UKF Estimator for Fault Detection and Isolation in Heating Ventilation and Air Conditioning Systems

N. Tudoroiu and M. Zaheeruddin

Linux Bonding Approach for Heterogeneous Networks

S.V. Srikanth, N. Sarat, Chandra Babu, Dileep K Panjala, Trilok Inakota, D.K. Jain

19:00 – 21:00 Welcome Reception

September 16, Friday

ROOM "BELLAVANTI"

09:30 – 10:30 Plenary talk – Chair: János C. Fodor

Casual Communication between Robots and Humans Using
Fuzzy Interruption Technology on Internet

Kaoru Hirota

10:30 – 11:00 Coffee Break

11:00 – 12:40 SESSION IV. – Chair: Mihaela Costin

Applications

A Weights Representation for Absolute Measurement AHP
using Fuzzy Sets Theory

*Shin-ichi Ohnishi, Tatsuhiko Saito, Takahiro Yamanoi, Hideyuki
Imai*

Modeling packet delay distributions in an industrial telemetry
system Software Applications

Marek Szmechta, Paweł Aksamit

Cognitive Aspects of Multiple Tasks and Perception: Overview
and Discussion on Recent Studies

Mihaela Costin

Distributed MOPSO with a new population subdivision
technique for the Feature Selection

Raja Fdhila, Tarek M. Hamdani, Adel M. Alimi

Autocollimator Calibration

Gy. Hermann

12:40 – 14:00 Lunch

14:00 – 15:00 SESSION V. – Chair: László Horváth

Models, Methods and Control I

Variations of Gravitation Models Using Geometric
Programming

A. Bakó, P. Földesi

New Improvement Results of Synchronizing IFS Using
Almost Sure Stability

S. Ben Abdelbari, J. Ezzine

Negotiation guiding framework: a recommendation for
negotiation's designer model

Fatma B. Said, Tarek M. Hamdani, Adel M. Alimi

15:00 – 15:30 Coffee Break

15:30 – 16:50 SESSION VI. – Chair: László Horváth

Models, Methods and Control II

Knowledge Engineering for Modeling and Simulation in
Virtual Product Development

László Horváth, Imre J. Rudas

On the Usefulness of Numeric Field Computations in the
Study of the Switched Reluctance Motor's Winding Faults

*Rareş Terec, Ioana Benția, Mircea Ruba, Loránd Szabó, Pavol
Rafajdus*

On the use of cluster validity for evaluation of MIGSOM
clustering

T. Ayadi, T.M. Hamdani, A.M. Alimi

Practice Oriented Higher Education Course Definitions and
Processes

József Gáti and Gyula Kártyás

19:00 – 21:00 Dinner

September 17, Saturday

	ROOM "BELLAVANTI"
10:00 – 11:20	SESSION VII. – Chair: Lorand Szabo
	Other aspects of Computational Intelligence and Intelligent Informatics
	Augmented Virtuality based Immersive Telepresence for Control of Mining Robots <i>Karthik Mahesh Varadarajan, Markus Vincze</i>
	On the FPGA Implementation of the Fuzzy-Interpolative Systems <i>M.M. Balas, B.A. Sajgo, P. Belean</i>
	Iris Codes Classification Using Discriminant and Witness Directions <i>N. Popescu-Bodorin, V.E. Balas, I.M. Motoc</i>
	8-Valent Fuzzy Logic for Iris Recognition and Biometry <i>N. Popescu-Bodorin, V.E. Balas, I.M. Motoc</i>
	Closing with farewell drink

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