

# Information in Image and Video Analysis Theory and Applications

## Anniversary Workshop

Dedicated to the 150<sup>th</sup> anniversary of the Romanian Academy  
and  
25<sup>th</sup> anniversary of the Information Science and Technology Section

March 24th, 2016

Conference Hall of Romanian Academy, Iași Branch, Blvd. Carol I, nr. 8, Iași

08.30 – 09.00		Registration
09.00 – 09.30	Conference Hall	Opening Ceremony
09.30 – 11.00	Conference Hall	1 <sup>st</sup> Session
11.00 – 11.15		Coffee break
11.15 – 13.00	Conference Hall	2 <sup>nd</sup> Session
13.00 – 14.00		Lunch break
14.00 – 15.45	Conference Hall	3 <sup>rd</sup> Session

### 1<sup>st</sup> Session

**Chairs: Corneliu Lazăr, Mircea-Florin Vaida**

*2D/3D Heat transport maps of biological tissue in therapeutic hypothermia*

Victor Cojocaru, Anatoli Sidorenko, Daniel Vrabii, "D. Ghitu" Institute of Electronic Engineering and Nanotechnologies, Academy of Sciences of Moldova

*Discriminative Model for Tumor Segmentation in Multimodal MRI*

László Lefkovits, Sapientia Hungarian University of Transilvania

Szidónia Lefkovits, "Petru Maior" University

Mircea-Florin Vaida, Technical University of Cluj-Napoca

*The use of image moments in visual control techniques: An overview*

Cosmin Copot, Ghent University

Adrian Burlacu, Corneliu Lazar, "Gheorghe Asachi" Technical University of Iasi

*Image Based Visual Servoing through Model Predictive Control - a survey of some results*

Corneliu Lazar, Adrian Burlacu, "Gheorghe Asachi" Technical University of Iasi

*Visual Servoing Techniques for Wheeled Mobile Robots: Review and Latest Trends*

Adrian Burlacu, Corneliu Lazar, "Gheorghe Asachi" Technical University of Iasi

*Accurately automatic detection and localization of the optic disc in retina images*

Dan Popescu, University Politehnica of Bucharest

Loretta Ichim, University Politehnica of Bucharest, „Stefan S. Nicolau” Institute of Virology, Romanian Academy

## 2<sup>nd</sup> Session

**Chairs: Hariton Costin, Tudor Barbu**

*Deep Learning Applied In Distributed Image Processing Architectures*

Mihai Scutaru, Bogdan Budescu, Codruța Ene, Florin Moldoveanu, Sorin Moraru, Transilvania University of Brasov

*A Robust Gaze Following Approach to Human-Robot Interaction*

Sorin Mihai Grigorescu, Florin Moldoveanu, Department of Automation, Transilvania University of Brasov

*A Rule-based Decision System for Automatic Sorting of Recyclable / Non-recyclable Waste*

Mariana Rusu, Technical University of Moldova, Chisinau  
Marius-Dan Zbancioc, Institute of Computer Science, Romanian Academy Iasi Branch, "Gheorghe Asachi" Technical University of Iasi

*Vessel Edge Detection using Classical Image Processing Techniques*

Irina Andra Tache, University Politehnica of Bucharest

*Iris recognition using Spatial Color Indexing*

Ioan Păvăloi  
Institute of Computer Science, Romanian Academy Iasi Branch

*On the statistical characterization of the structure of non-woven textiles based on processed microscopic images - A preliminary discussion*

Horia-Nicolai Teodorescu, Romanian Academy  
Lucian Dăscălescu, IUT d'Angoulême, University Poitiers, France

## 3<sup>rd</sup> Session

**Chairs: Florin Rotaru, Silviu-Ioan Bejinariu**

*Nonlinear Second-order PDE-based Image Filtering Approach*

Tudor Barbu, Adrian Ciobanu, Cristina Diana Niță  
Institute of Computer Science, Romanian Academy Iasi Branch

*Video tracking for animal behavior analysis*

Florin Rotaru, Silviu-Ioan Bejinariu, Mihaela Luca, Ramona Luca, Cristina Diana Niță  
Institute of Computer Science, Romanian Academy Iasi Branch

*Detecting 3D Depth for Image Objects using Information from Horizon Line*

Mutia Shami, "Gheorghe Asachi" Technical University of Iasi  
Marius-Dan Zbancioc, Institute of Computer Science, Romanian Academy Iasi Branch, "Gheorghe Asachi" Technical University of Iasi

*Resolution Constraints for Iris Images in the Case of Identification Based on Color Features*

Adrian Ciobanu, Tudor Barbu, Mihaela Luca  
Institute of Computer Science, Romanian Academy Iasi Branch

*Ontology Based Motion Recognition from Video Sequences*

Ramona Luca, Silviu-Ioan Bejinariu  
Institute of Computer Science, Romanian Academy Iasi Branch

*Multi-objective Nature Inspired Optimization Algorithms*

Silviu-Ioan Bejinariu, Hariton Costin, Florin Rotaru, Ramona Luca, Cristina Diana Niță, Camelia Lazăr  
Institute of Computer Science, Romanian Academy Iasi Branch