

NEUREL 2016 Conference Program

Sava Center, Milentija Popovića 9, 11070 Beograd

Tuesday, November 22, 2016

09:00 Start of Registration – NEUREL 2016 Registration Desk

10:30 – 12:00 Opening Ceremony (Joined with TELFOR Conference), Rooms 1 + 1a + 1b /0 (Ground Level)

12:00 – 13:00 Welcome Party – Sava Center Restaurant (Ground Level)

14:30 – 16:45 Session 1: Neural Networks in Biomedical Applications

Japanese Room (First floor)

Chairpersons: Olivera Šveljo, Marko Janković

Invited Lecture 1: Dan L. Llacuna, Loredana Ileana Viscu, and Cornelia Victoria Anghel Drugarin

Artificial vs. Natural Neural Networks

- 1.1. Marko Jankovic, Samuel Mosimann, Lia Bally, Cristoph Stettler, Stavroula Mougiakakou,
Deep Prediction Model: The Case of Online Adaptive Prediction of Subcutaneous Glucose
- 1.2. Dejan Raković
On Bioresonant Patterns-Qua-Attractors and Healing Boundary Conditions within Quantum-Holographic Psychosomatics
- 1.3. Ljubinka Sandjakoska, Ana Madevska Bogdanova, Nevena Ackovska
Predictive Modeling of Robot Movements in Drug Development
- 1.4. Simona Đurić, Tatjana Lončar-Turukalo, David Dabić, Katarina Koprivšek, Miloš Lučić, Olivera Šveljo
Temporal Pattern Based Classification of Independent Components in Resting State fMRI
- 1.5. Vesna Zeljkovic, Ivana Vucenik, Pedro Mayorga, Julio Valdez, Claude Tameze, Joseph Stains, Christopher Druzgalski
Mathematical Models for Bone Density Assessment
- 1.6. Florentina Pintea, Tiberiu Karnyanszky, Simona Apostol
Improved Computer Aided TDT Analysis
- 1.7. Vladislava Bobić, Predrag Tadić, Goran Kvaščev
Hand Gesture Recognition Using Neural Network Based Techniques
- 1.8. Miloš Roglić, Vladislava Bobić, Milica Djurić-Jovičić, Mirjana Djordjević, Nataša Dragašević, Boško Nikolić
Serious Gaming Based on Kinect Technology for Autistic Children in Serbia

16:45 – 17:00 Coffee Break

17:00 – 19:15 Session 2: Algorithms and Models

Japanese Room (First floor)

Chairpersons: Budimir Lutovac, Goran Kvaščev

Invited Lecture 2: Miloš Stanković

Multi-Agent Reinforcement Learning

- 2.1. Milos Kotlar, Zoran Babovic, Veljko Milutinovic
Implementation of Perceptron Algorithm Using DataFlow Paradigm
- 2.2. Vera Miler-Jerković, Milica Janković, Branko Malešević, Biljana Mihailović
Solving Fuzzy Linear Systems with EP Matrix Using a Block Representation of Generalized Inverses
- 2.3. Aleksa Srdanov, Nada Ratković Kovačević, Selena Vasić, Dragan Milovanović
Emulation of Artificial Intuition Using Random Choice and Logic
- 2.4. Miloš Brajović, Budimir Lutovac, Irena Orović, Miloš Daković, Srdjan Stanković
Sparse Signal Recovery Based on Concentration Measures and Genetic Algorithm
- 2.5. Branko Lukić, Kosta Jovanović, Goran Kvaščev
Feedforward Neural Network for Controlling Qbmove Maker Pro Variable Stiffness Actuator
- 2.6. Nataša Vlahović, Goran Kvaščev
Noise Reduction by Using Autoassociative Neural Networks
- 2.7. Liviu Goras, Stefan Viorel Savinescu
A Note on Order Reduction in Frequency Selective Systems

Wednesday, November 23, 2016

08:30 – 10:45 Session 3: Different Applications of Neural Networks

Japanese Room (First floor)

Chairpersons: David Pokrajac, Milorad Paskaš

Invited Lecture 3: Petar Djurić

Sequential Estimation and Diffusion of Information Over Networks

- 3.1. David Pokrajac, Kimberly Sudler, Phyllis Edamatsu, Teresa Hardee**
Prediction of Retention at Historically Black College/University using Artificial Neural Networks
- 3.2. Srđan Kostić, Nebojša Vasović, Kristina Todorović, Andreja Samčović**
Application of Artificial Neural Networks for Slope Stability Analysis in Geotechnical Practice
- 3.3. Miloš Daković, Tijana Ružić, Tanja Rogač, Miloš Brajović, Budimir Lutovac**
Neural Networks Application to Neretva Basin Hydro-Meteorological Data
- 3.4. Imaculate Mosha**
An Evolved Convex Hull Self Organizing Map for the Travelling Salesman Problem
- 3.5. Milan Milivojević, Ana Gavrovska, Irini Reljin**
The Music Effect Differentiation in Physiological Signals
- 3.6. Ana Gavrovska, Milan Milivojević, Goran Zajić, Irini Reljin**
Video Traffic Variability in H.265/HEVC Video Encoded Sequences
- 3.7. Marko Krstić, Milan Bjelica**
Performance Metrics for Personalized Program Guides
- 3.8. Tomislav Ćirić, Zlatica Marinković, Olivera Pronić-Rančić, Vera Marković, Larissa Vietzorreck**
Modeling of Actuation Voltage of RF MEMS Capacitive Switches based on RBF ANNs

10:45 – 11:00 Coffee Break

11:00 – 13:15 Session 4: Neural Networks in Image, Video, and Multimedia Processing

Japanese Room (First floor)

Chairpersons: Ana Gavrovska, Georgi Tsenov

Tutorial Lecture 4: Irini Reljin and Ana Gavrovska

New Trends in Imaging and Video Traffic Modeling

- 4.1. Stoimen Stoimenov, Georgi Tsenov, Valeri Mladenov**
Face Recognition System in Android Using Neural Networks
- 4.2. Kevin Pelzers, Valeri Mladenov**
Animal Call Segregation Using Self Organizing Map with Speeded Up Robust Features
- 4.3. Milija Bajčeta, Petar Sekulić, Slobodan Djukanović, Tomo Popović, Vesna Popović-Bugarin**
Retinal Blood Vessels Segmentation Using Ant Colony Optimization
- 4.4. Marijeta Slavković-Ilić, Milorad Paskaš, Branimir Reljin**
Nuclei Segmentation from Contrast Enhanced FISH Images
- 4.5. Milorad Paskaš, Marijeta Slavković-Ilić, Branimir Reljin**
Evaluation of Morphological Multifractal Models for Texture Classification
- 4.6. Vladimir Risojević**
Analysis of Learned Features for Remote Sensing Image Classification
- 4.7. Aleksej Avramović**
Evaluation of Descriptor Dimensionality Reduction Methods for Land-Use Classification
- 4.8. Milena Vesić, Goran Zajić, Ana Gavrovska**
CBIR System with Relevance Feedback using Hölder exponent

13:30 – 14:30 Lunch

19:00 – 24:00 Boat Tour and Conference Dinner

Yachting Club Kej, Usce bb

Thursday, November 24, 2016

Post-conference Day