		Tuesday, November 20, 2018	
08:00	-	Start of Registration	NEUREL 2018
			Registration Desk
08:30	- 10:15	SESSION 1	Japan Salon
		Signal, Image and Video Processing	(First floor)
	Cha	airpersons: Ana Gavrovska and Milorad Paskaš	
S1.1		vković-Ilić, Irini Reljin and Branimir Reljin tterns toward Robustness to Gaussian Noise	
S1.2		, Milan Milivojević and Irini Reljin Visual Quality Assessment with Content-aware Data Partitionin	g
S1.3		avrovska and Nataša Milosavljević tion using Color and Detail Clustering	
S1.4	Milan Milivojević, Ana Gavro Biometric Clustering of ECG u		
S1.5		Marija Zajeganović, Dragan Ristić, Irini Reljin and Miomir Ne Responses using Kohonen Neural Network	Nijić
S1.6		ic, Ana Gavrovska, Irini Reljin, Branimir Reljin and Milan Bjensor Diagnostic Procedures into the Intelligent Transportation No	
S1.7		Dejan Bokan and Dragan Kukolj e Quality Assessment using Multi-scale DoG and GRNN	
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)
			(0.04.14 2010.)
14:30	- 16:30	SESSION 2	Japan Salon
		Biomedical Applications 1	(First floor)
	Cha	airpersons: Marko Janković and Dejan Raković	
IL.1		nkovic, University of Bern, Switzerland Associative Reasoning - QLEAR Learning	
	Chairman for Invited Lecture:	Branimir Reljin	
S2.1		ric, Lia Bally and Stavroula Mougiakakou an LSTM and Bi-LSTM Based Deep Neural Network	
S2.2		ric and Stavroula Mougiakakou ate Estimation on Control of Blood Glucose in Type 1 Diabetes	
S2.3	Vladimir Atanasoski, Marija Ivanovic, Milan Marinkovic, Goran Gligoric, Bosko Bojovic, Alexei Shvilkin and Jovana Petrovic Unsupervised Classification of Premature Ventricular Contractions Based on RR Interval and Heartbeat Morphology		
S2.4	Adam Barton The Spiking Neural Network Agent – The Initial Experimental Study		, 3
S2.5	Dejan Raković	Dejan Raković On Extended Quantum-Holographic Framework for Control of Macro-Quantum Correlations of Individual and Collective	
S2.6	Aneta Kartali, Miloš Roglić,	Marko Barjaktarović, Milica Đurić-Jovičić and Milica Jankov al Emotion Recognition: A Comparison of Different Approaches	rić

Coffee Break

16:45 - 17:00

17:00	9 – 18:45 SPECIAL SESSION – Vlatacom Institute Session Organizer: Srđan Stanković	Japan Salon (First floor)
	Chairpersons: Branka Stojanović and Miloš Stanković	
S3.1	Milan Stojanović, Nataša Vlahović, Miloš Stanković and Srđan Stanković Deep Features in Correlation Filters for Thermal Image Tracking	
\$3.2	Miloš Pavlović, Branka Stojanović, Ranko Petrović and Srđan Stanković Fusion of Visual and Thermal Imagery for Illumination Invariant Face Recognition System	
S3.3	Branka Stojanović, Snežana Puzović, Nataša Vlahović, Ranko Petrović and Srđan Sta Real-Time Multi-Sensor Infrared Imagery Enhancement	nković
S3.4	Nataša Vlahović, Nemanja Ilić and Miloš Stanković Deep Learning in Video Stabilization Homography Estimation	
S3.5	Jakub Špaňhel, Jakub Sochor and Aleksej Makarov Vehicle Fine-grained Recognition Based on Convolutional Neural Networks for Real-world A	Applications
S3.6	Jakub Špaňhel, Jakub Sochor and Aleksej Makarov Detection of Traffic Violations of Road Users Based on Convolutional Neural Networks	
S3.7	Katarina Knežević, Emilija Mandić, Ranko Petrović and Branka Stojanović Blur and Motion Blur Influence on Face Recognition Performance	

	Wednesday, November 21, 2018	
08:30	SESSION 4 Miscellaneous Applications Chairpersons: Liviu Goras and Tomislav Šekara	Japan Salon (First floor)
S4.1	Aleksej Avramović, Domen Tabernik and Danijel Skočaj Real-time Large Scale Traffic Sign Detection	
\$4.2	Igor Ševo Semi-supervised Neural Network Training Method for Fast-moving Object Detection	
S4.3	Aleksej Avramović, Vedran Jovanović, Ratko Pilipović, Vladan Stojnić, Vladimir Risojević, Slavica O Igor Ševo, Mario Muštra, Zdenka Babić and Janja Filipi Automatic Monitoring of Honeybees' Activity Outside of the Hive from UHD Video	Sajić, Mitar Simić,
S4.4	Vladan Stojnić and Vladimir Risojević Analysis of Color Space Quantization in Split-Brain Autoencoder for Remote Sensing Image Classification	
S4.5	Saad Merrouche, Dimitrije Bujaković, Milenko Andrić and Boban Bondžulić Feature Selection for Image Distortion Classification	
S4.6	Jovan Mikulović and Tomislav Šekara	

Power Definitions for Fractional Order Elements and Non-Active Power Compensation

On Pattern Formation in Homogeneous and Nonhomogeneous Cellular Neural Networks Vladica Đorđević, Zlatica Marinković, Olivera Pronić-Rančić and Vera Marković

Comparative Analysis of Different ANN Methods for the Noise Wave Temperature Extraction

Coffee Break

Liviu Goras, Viorel Stefan Savinescu and Nica Ioan

S4.7

S4.8

10:45 - 11:00

11:00	- 13:30	SESSION 5	Japan Salon
		Deep Learning	(First floor)
	Chairpersons:	Irena Orović and Budimir Lutovac	
IL.2	Invited Lecture 2: Petar Djurić, Stony Bro Deep Gaussian Processes: Theory and App		
	Chairman for Invited Lecture: Srđan Stanko	vić	
S5.1	Guanchao Feng, J. Gerald Quirk and Pet Supervised and Unsupervised Learning of I	<mark>ar Djurić</mark> Fetal Heart Rate Tracings with Deep Gaussian Processe	es
S5.2	Predrag Tadić, Nima Asadi, Nikola Popov Improving the Efficiency of the Support Vec		
S5.3	Miloš Brajović, Budimir Lutovac, Miloš D Reconstruction of Missing Samples in LFM		
S5.4	Andjela Draganić, Irena Orović and Srdja QR Encoding from Highly Under-sampled C		
S5.5	Ljubinka Sandjakoska and Ana Madevsk Towards Stochasticity of Regularization in L		
S5.6	Vedran Jovanović, Eirik Svendsen, Vladi Splash Detection in Fish Plants Surveillance		
S5.7	Luka Šećerović and Veljko Papić Detecting Missing Products in Commercial	Refrigerators using Convolutional Neural Networks	
S5.8	Milos Kotlar, Dragan Bojic, Marija Punt, a A Survey of Deep Neural Networks: Deploy		
13:30	- 14:30	Lunch Break	Sava Center Restaurant
			(Ground Level)
14:30	- 16:30	SESSION 6	Japan Salon
14:30		SESSION 6 nedical Applications 2	Japan Salon (First floor)
14:30	Bior		•
14:30	Bior	nedical Applications 2 Valeri Mladenov and Dan Lacrama ity of Connecticut, USA	•
	Bion Chairpersons: Invited Lecture 3: Natasa Reljin, Universi	nedical Applications 2 Valeri Mladenov and Dan Lacrama ity of Connecticut, USA is for Heart Failure Detection	-
	Bior Chairpersons: Invited Lecture 3: Natasa Reljin, Universi Transthoracic Bioimpedance Measurements Chairman for Invited Lecture: Srđan Stanko	nedical Applications 2 Valeri Mladenov and Dan Lacrama ity of Connecticut, USA s for Heart Failure Detection vić mer, Yitzhak Mendelson, David Blehar, Chad Darling	(First floor)
IL.3	Bior Chairpersons: Invited Lecture 3: Natasa Reljin, Universi Transthoracic Bioimpedance Measurements Chairman for Invited Lecture: Srđan Stanko Natasa Reljin, Yelena Malyuta, Gary Zimr Automatic Detection of Dehydration using S Sotiria Gilou, Christos Dimitrousis, Alexa Lazaridou, Panagiotis Bamidis and Alexa	nedical Applications 2 Valeri Mladenov and Dan Lacrama Ity of Connecticut, USA s for Heart Failure Detection vić mer, Yitzhak Mendelson, David Blehar, Chad Darling Support Vector Machines ander Zogkas, Christina Kemanetzi, Chrysovalantis	(First floor) and Ki Chon Korfitis, Elizabeth
IL.3 S6.1	Chairpersons: Invited Lecture 3: Natasa Reljin, Universit Transthoracic Bioimpedance Measurements Chairman for Invited Lecture: Srđan Stanko Natasa Reljin, Yelena Malyuta, Gary Zimr Automatic Detection of Dehydration using S Sotiria Gilou, Christos Dimitrousis, Alexa Lazaridou, Panagiotis Bamidis and Alexa Artificial Neural Networks and Statistical Cla	nedical Applications 2 Valeri Mladenov and Dan Lacrama ity of Connecticut, USA is for Heart Failure Detection vić mer, Yitzhak Mendelson, David Blehar, Chad Darling Support Vector Machines ander Zogkas, Christina Kemanetzi, Chrysovalantis I ander Astaras assification Applied to Electrical Impedance Spectroscop	(First floor) and Ki Chon Korfitis, Elizabeth
IL.3 S6.1 S6.2	Chairpersons: Invited Lecture 3: Natasa Reljin, Universi Transthoracic Bioimpedance Measurements Chairman for Invited Lecture: Srđan Stanko Natasa Reljin, Yelena Malyuta, Gary Zimr Automatic Detection of Dehydration using S Sotiria Gilou, Christos Dimitrousis, Alexa Lazaridou, Panagiotis Bamidis and Alexa Artificial Neural Networks and Statistical Cla Diagnosis in Dermatology (DermaSense) Sertan Kaymak, Parvaneh Esmaili and Alexa	nedical Applications 2 Valeri Mladenov and Dan Lacrama ity of Connecticut, USA is for Heart Failure Detection vić mer, Yitzhak Mendelson, David Blehar, Chad Darling Support Vector Machines ander Zogkas, Christina Kemanetzi, Chrysovalantis I ander Astaras assification Applied to Electrical Impedance Spectroscop ii Serener of Malignant Pigmented Skin Lesions	(First floor) and Ki Chon Korfitis, Elizabeth
IL.3 S6.1 S6.2 S6.3	Chairpersons: Invited Lecture 3: Natasa Reljin, Universi Transthoracic Bioimpedance Measurements Chairman for Invited Lecture: Srđan Stanko Natasa Reljin, Yelena Malyuta, Gary Zimr Automatic Detection of Dehydration using S Sotiria Gilou, Christos Dimitrousis, Alexa Lazaridou, Panagiotis Bamidis and Alexa Artificial Neural Networks and Statistical Cla Diagnosis in Dermatology (DermaSense) Sertan Kaymak, Parvaneh Esmaili and Al Deep Learning for Two-Step Classification of Georgi Tsenov and Valeri Mladenov	nedical Applications 2 Valeri Mladenov and Dan Lacrama ity of Connecticut, USA is for Heart Failure Detection vić mer, Yitzhak Mendelson, David Blehar, Chad Darling Support Vector Machines ander Zogkas, Christina Kemanetzi, Chrysovalantis I ander Astaras assification Applied to Electrical Impedance Spectroscop ii Serener of Malignant Pigmented Skin Lesions Classifier for P300 Signal Detection	(First floor) and Ki Chon Korfitis, Elizabeth
S6.1 S6.2 S6.3 S6.4	Chairpersons: Invited Lecture 3: Natasa Reljin, Universi Transthoracic Bioimpedance Measurements Chairman for Invited Lecture: Srāan Stanko Natasa Reljin, Yelena Malyuta, Gary Zimr Automatic Detection of Dehydration using S Sotiria Gilou, Christos Dimitrousis, Alexa Lazaridou, Panagiotis Bamidis and Alexa Artificial Neural Networks and Statistical Cla Diagnosis in Dermatology (DermaSense) Sertan Kaymak, Parvaneh Esmaili and Al Deep Learning for Two-Step Classification of Georgi Tsenov and Valeri Mladenov EEG Alphabet Speller with Neural Network Yasen Yordanov and Valeri Mladenov	nedical Applications 2 Valeri Mladenov and Dan Lacrama Ity of Connecticut, USA Is for Heart Failure Detection vić mer, Yitzhak Mendelson, David Blehar, Chad Darling Support Vector Machines ander Zogkas, Christina Kemanetzi, Chrysovalantis I ander Astaras assification Applied to Electrical Impedance Spectroscop It Serener of Malignant Pigmented Skin Lesions Classifier for P300 Signal Detection ural Network ntea and Tiberiu Karnyanszky	(First floor) and Ki Chon Korfitis, Elizabeth

17:00	– 19:00 SESSION 7	Japan Salon
	Estimation, Planning and Management	(First floor)
	Chairpersons: Nataša Reljin and Zoi Dokou	
IL.4	Invited Lecture 4: Zoi Dokou, University of Connecticut, USA Water Resources Management for Ensuring Food and Water Security	
	Chairman for Invited Lecture: Branimir Reljin	
S7.1	Zoi Dokou, Natasa Reljin, Mohsen Kheirabadi, Amvrossios Bagtzoglou and Emmanouil Anagnostou Lake Level Estimation using Machine Learning and Physically-based Approaches in Lake Tana, Ethiopia	
S7.2	Emir Žunić, Harun Hindija, Admir Beširević, Kerim Hodžić and Sead Delalić Improving Performance of Vehicle Routing Algorithms using GPS Data	
S7.3	Emir Žunić, Sead Delalić, Kerim Hodžić, Admir Beširević and Harun Hindija Smart Warehouse Management System Concept with Implementation	
S7.4	Merima Čišija, Emir Žunić and Dženana Đonko Collection and Sentiment Analysis of Twitter Data on the Political Atmosphere	
S7.5	Adnan Husaković, Eugen Pfann and Mario Huemer Robust Machine Learning Based Acoustic Classification of a Material Transport Process	
S7.6	Abdullah Erdal Tümer and Serpil Edebali Modeling and Optimization of Hexavalent Chromium Sorption onto Amberjet 1200H by Using Multiple-Linear	Regression
19:00	- 19:15 Closing Session	Japan Salon (First floor)

19:30 – Boat Tour and Conference Dinner Yachting Club Kej
Usce bb

Boat cruising will start at 20:00 from Yachting Club "Kej", Usce Street bb. All participants are kindly requested to be on board by 19:45.

The time for oral presentation is limited to 30 minutes for invited lectures and 15 minutes for regular papers including discussion (approximately 5 minutes).

Authors who will present the papers are kindly requested to contact their session chairmen 10 minutes before the beginning of the session. In this way, the authors will contribute to well organization of sessions.