

Detailed Program of the joint 20th EANN 2019 - 15th AIAI'2019 Conference

Friday 24/5/2019

8:00-16:00 Registration

9:30- 10:30 Plenary Session 1

Chair: *Plamen Angelov*

Room A: Keynote Speaker: Evangelos Eleftheriou

IBM Fellow, Cloud & Computing Infrastructure, Zurich Research Laboratory, Zurich, Switzerland

Title: *"In-memory Computing: Accelerating AI Applications"*

Room A:

10:30- 11:45 AIAI Session 1: (ONS-CL²) Ontologies-Semantics & Classification-Clustering

Chair: *Elias Pimenidis*

Dennis Müller, Dirk Pallmer, Ernst-Josef Behmer, Krishna Chandramouli, Victor Garrido, Dirk Mühlenberg, Wilmuth Müller, Francisco Pérez, Tomas Piatrik, Camilo Vargas

Ontology population framework of MAGNETO for instantiating heterogeneous forensic data modalities (full)

András Dobó, János Csirik

Comparison of the best parameter settings in the creation and comparison of feature vectors in distributional semantic models across multiple languages (full)

Zijian Kang, Le Wang, Ziyi Liu, Qilin Zhang, Nanning Zheng

Extracting Action Sensitive Features to Facilitate Weakly-supervised Action Localization (full)

Suvra Jyoti Choudhury, Nikhil R. Pal

Classification of incomplete data using autoencoder and evidential reasoning (full)

Konstantinos Delibasis

A new topology-preserving distance metric with applications to multi-dimensional data clustering (full)

Room B: 10:30- 11:45 AIAI Session 2: (AUV-LE) Autonomous Vehicles-Learning

Chair: Konstantinos Demertzis

Qinbing Fu, Nicola Bellotto, Huatian Wang, F. Claire Rind, Hongxin Wang, Shigang Yue

A Visual Neural Network for Robust Collision Perception in Vehicle Driving Scenarios (full)

Tangyike Zhang, Shitao Chen, Songyi Zhang, Yu Chen, Chao Xia, Nanning Zheng

Mixture Modules Based Intelligent Control System for Autonomous Driving (full)

Jiannan Zhao, Xingzao Ma, Qinbing Fu, Cheng Hu, Jiannan Zhao, Xingzao Ma, Qinbing Fu, Cheng Hu, Shigang Yue

An LGMD Based Competitive Collision Avoidance Strategy for UAV (full)
Stamatis Karlos, Vasileios G. Kanas, Nikos Fazakis, Christos Aridas, Sotiris Kotsiantis
Investigating the benefits of exploiting incremental learners under Active Learning scheme (full)
Agus Budi Raharjo, Mohamed Quafafou
Dynamic Reliable Voting in Ensemble Learning

Room C: 10:30- 11:45 EANN Session 1: (MDL-EN&IN)

Machine & Deep Learning - AI in Energy & Industry

Chair: Ioannis Tsamardinou

Valentina Colla, Ismael Matino, Stefano Dettori, Silvia Cateni, Ruben Matino
Reservoir Computing Approaches Applied to Energy Management in Industry (full)
Sven Opalic, Morten Goodwin, Lei Jiao, Henrik Kofoed Nielsen, Mohan Lal Kolhe
Modelling of compressors in an industrial CO₂-based operational cooling system using ANN for energy management purposes (full)
Christoforos Nalmpantis, Dimitris Vrakas
Signal2Vec: Time Series Embedding Representation (full)
Rolandos Alexandros Potamias, Georgios Siolas, Andreas Stafylopatis
A Robust Deep Ensemble Classifier for Figurative Language Detection (full)
Nameer Al Khafaf, Mahdi Jalili, Peter Sokolowski
Application of Deep Learning Long Short-Term Memory in Energy Demand Forecasting (full)

Room D:

10:30- 11:45 5G-PINE I (5G – Putting Intelligence to the Network Edge) Workshop Session

Chair: Ioannis Chochliouros

Ioannis Chochliouros, Anastasia Spiliopoulou, Alexandros Kostopoulos, George Agapiou, Maria Belesioti, Evangelos Sfakianakis, Michail-Alexandros Kourtis, Mike Iosifidis, Marinos Agapiou, Pavlos Lazaridis
Inclusion of Telemetry and Data Analytics in the Context of the 5G ESSENCE Architectural Approach (full)
Ioannis Chochliouros, Anastasia Spiliopoulou, Alexandros Kostopoulos, Eirini Vasilaki, Athanassios Dardamanis, Uwe Herzog, Tao Chen, Latif Ladid, Marinos Agapiou
Testbeds for the Implementation of 5G in the European Union: The Innovative Case of the 5G-DRIVE Project (full)
Alexandros Kostopoulos, Ioannis Chochliouros, Evangelos Sfakianakis, Daniele Munaretto, Claus Keuker
A Cloud-based Architecture for Video Services in Crowd Events (full)
Ioannis Chochliouros, Na Yi, Anastasia Spiliopoulou, Alexandros Kostopoulos, Uwe Herzog, Tao Chen, Athanassios Dardamanis, Olga Segou, Latif Latid, Klaus Moessner, Juha Zidbeck, Philippos Assimakopoulos, Nahan Gomes, Rahim Tafazolli
Enhanced Mobile Broadband as Enabler for 5G: Actions from the Framework of the 5G-DRIVE Project (full)
Ioanna Mesogiti, Eleni Theodoropoulou, George Lyberopoulos, Fotini Setaki, Aurora Ramos, Panagiotis Gouvas, Anastasios Zafeiropoulos, Roberto Bruschi

A Framework to Support the Role of Telecommunication Service Providers in evolving 5G Business Models (full)

11:45-12:15 Coffee Break

12:15-13:15 Plenary Session 2

Chair: *John Oommen*

Room A: Keynote Speaker: Papagiotis Papapetrou

Department of Computer and Systems Sciences, Stockholm University

Title: *Learning from Electronic Health Records: from temporal abstractions to time series interpretability*

13:15-14:30 Lunch

14:30-16:00

Room A: TUTORIAL - (AML-BCB 1)

Automated Machine Learning for Bioinformatics and Computational Biology (PART 1)

Chairs: *Ioannis Tsamardinos, Vincenzo Lagani*

14:30-15:45

Room B: MHDW I (Mining Humanistic Data I) Workshop Session

Chair: *Andreas Kanavos*

Oluwole Ajala, Miznah Alshammary, Jia Gao, Costas Iliopoulos, Mai Alzamel, Jakub Radoszewski, Wojciech Rytter, Bruce Watson

On the cyclic regularities of strings (short)

Ioannis Livieris, Niki Kiriakidou, Andreas Kanavos, Gerasimos Vonitsanos, Vassilis Tampakas
Employing Constrained Neural Networks for Forecasting new Products Sales Increase (full)

Fotios Kounelis, Andreas Kanavos, Ioannis Livieris, Gerasimos Vonitsanos, Panagiotis Pintelas

Predicting Secondary Structure for Human Proteins based on Chou-Fasman Method (short)

Theodoros Giannakopoulos, Evaggelos Spyrou, Stavros Perantonis

Recognition of urban sound events using deep context-aware feature extractors and handcrafted features (full)

Evangelos Geramanis, Alexandros Dimitrios Zervopoulos, Alexandros Toulakis, Asterios Papamichail, Dimitrios Triantafylloy, Theofanis Tasoulas, Katia Lida Kermanidis

Language Processing for Predicting Suicidal Tendencies: A Case Study in Greek Poetry (full)

14:30-15:45

Room C: 5G-PINE II (5G – Putting Intelligence to the Network Edge II) Workshop Session

Chair: *Ioannis Neokosmidis*

George Agapiou, Christos Tsirakis, Marinos Agapiou, Dimitris Varoutas, Panagiotis Matzoros, Mariana Goldhame

A Techno-Economic Analysis of Employing a central Coordinator Entity in 5G Networks (short)

Juan Sanchez-Gonzalez, Jordi Perez-Romero, Oriol Sallent

A New Self-Planning Methodology Based on Signal Quality and User Traffic in Wi-Fi Networks (full)

Maria Rita Spada, Alessandro Vincentini

5GESSENCE_Trustworthy AI for 5G_5GPINE_Final (short)

Bego Blanco, Aitor Sanchoyerto, Ruben Solozabal Ochoa de Retana, Elisa Jimeno, Endika Aldecoa, Estrella Basurto, Fidel Liberal

Orchestration of Mission-Critical services over an NFV architecture (full)

Ioannis Neokosmidis, Theodoros Rokkas, Dimitrios Xydias, Maria Rita Spada

Regulatory Considerations In the 5G era: The 5GCity Neutral Host case (full)

14:30-15:45 Room D: (PEINT) (Pervasive Intelligence) Workshop Session

Chair: *Dimitris Iakovidis*

Dimitrios Diamantis, Dimitra-Christina Koutsiou, Dimitris Iakovidis

Staircase Detection using a Lightweight Look-Behind Fully Convolutional Neural Network (full)

Antonios Papadakis, Eirini Mathe, Ioannis Vernikos, Apostolos Maniatis, Evaggelos Spyrou, Phivos Mylonas

Recognizing Human Actions using 3D Skeletal Information and CNNs (full)

Georgios Dimas, Charis Ntakolia, Dimitris Iakovidis (full)

Obstacle Detection based on Generative Adversarial Networks and Fuzzy Sets for Computer-Assisted Navigation (full)

Natalia Panagou, Panagiotis Oikonomou, Panos K. Papadopoulos, Maria Koziri, Thanasis Loukopoulos, Dimitris Iakovidis

On Predicting Bottlenecks in Wavefront Parallel Video Coding Using Deep Neural Networks (full)

15:45-16:15 Coffee Break

16:15-17:15

Room C: EANN-AIAI Common Session: (DEE-SG) Deep Learning – Social Graphs

Chair: *Katia Kermanidis*

Konstantinos Demertzis, Lazaros Iliadis, Vardis-Dimitris Anezakis

A Machine Hearing Framework for Real-Time Streaming Analytics Using Lambda Architecture (full)

Giorgio Lucarelli, Matteo Borrotti

A Deep Reinforcement Learning approach for automated cryptocurrency trading (full)

Konstantinos Demertzis, Lazaros Iliadis, Panayiotis Kikiras, Nikos Tziritas

Cyber-Typhon: An Online Multi-Task Anomaly Detection Framework (full)

Christos Makris, Dionisios Pettas, Georgios Pispirigos

Distributed Community Prediction for Social Graphs based on Louvain algorithm (full)

16:15-17:45

Room D: MHDW II (Mining Humanistic Data II Workshop) Session

Chair: *Phivos Mylonas*

Vassiliki Gkantouna, Vaios Papaioannou, Giannis Tzimas, Zlatan Sabic

An approach for Domain-specific Design Pattern Identification based on Domain Ontology (full)

Miznah Alshammary, Mai Alzamel, Costas Iliopoulos, Richard E. Watson, Bruce W. Watson

A brief overview of dead-zone pattern matching algorithms (short)

Georgios Drakopoulos, Xenophon Liapakis, Evaggelos Spyrou, Giannis Tzimas, Phivos Mylonas, Spyros Sioutas

Computing Long Sequences of Consecutive Fibonacci Integers with TensorFlow (full)

Giannis Haralabopoulos, Christian Wagner, Derek McAuley, Ioannis Anagnostopoulos

Paid crowdsourcing, low income contributors, and subjectivity (short)

Konstantinos Gourzis, Georgios Alexandridis, Stelios Gialis, George Caridakis

Studying the spatialities of short-term rentals' sprawl in the urban fabric: the case of Airbnb in Athens, Greece (full)

Elias Dritsas, Gerasimos Vonitsanos, Ioannis Livieris, Andreas Kanavos, Aristidis

Ilias, Christos Makris, Athanasios Tsakalidis

Pre-processing Framework for Twitter Sentiment Classification (full)

16:15-17:45

Room A: TUTORIAL (AML-BCB 2)

Automated Machine Learning for Bioinformatics and Computational Biology (PART 2)

Chairs: *Ioannis Tsamardinos, Vincenzo Lagani*

20:00 Welcome Reception!!

Saturday 25/5/2019

8:30-14:00 Registration

9:00-10:30 Room A: Plenary Session 3

Chair: *John Macintyre*

Workshop: EMERGING TRENDS in AI

Presentations by:

John Macintyre,

Andrew Starr,

Plamen Angelov

(Free discussion-exchange of Arguments with conference participants)

10:30-10:45 Coffee Break

10:45-11:45 Room A: AIAI Session 3: (BIO) Biomedical AI

Chair: *Konstantinos Delibasis*

Corinne Allaart, Lena Mondrejevski, Panagiotis Papapetrou

FISUL: A Framework for Detecting Adverse Drug Events from Heterogeneous Medical Sources using Feature Importance (full)

Jaakko Hollmen, Panagiotis Papapetrou

Clustering diagnostic profiles of patients (full)

Seyed Sahand, Mohammadi Ziabari

An adaptive Temporal-Causal Network Model for Stress Extinction Using Fluoxetine (full)

Athanasios Kallipolitis, Michael Galliakis, Andreas Menychtas, Ilias Maglogiannis

Emotion Analysis in Hospital Bedside Infotainment Platforms using Speeded up Robust Features (full)

10:45-11:45 Room B: EANN Session 2: (CLA) CLASSIFICATION

Chair: *Andrew Starr*

Kennedy Chengeta

Enhanced feature selection for Facial Expression Recognition Systems with genetic algorithms (full)

Paulo Vitor Campos Souza, Vinicius Jonathan Silva Araujo, Vanessa Souza Araujo, Lucas Oliveira Batista, Augusto Junio Guimaraes

Pruning Extreme Wavelets Learning Machine by Automatic Relevance Determination (full)

Amal Bouraoui, Salma Jamoussi, Abdelmajid Ben Hamadou

Learning meaningful sentence embedding based on recursive auto-encoders (full)

Thuan Gia Lam, Doina Logofatu, Costin Badica

A Hybrid Approach for the Fighting Game AI Challenge: Balancing Case Analysis and Monte Carlo Tree Search for the Ultimate Performance in Unknown Environment (full)

10:45-11:45 Room C: AIAI Session 4: (OPTI-BRI) Optimization - Brain inspired

Chair: *Peter Hajek*

Ekaba Besong, John Oommen

Optimizing Self-Organizing Lists-on-Lists using Enhanced Object Partitioning (full)

George Kyriakides, Konstantinos Margaritis

Comparison of Neural Network Optimizers for Relative Ranking Retention Between Neural Architectures (full)

Parthiv B. Rana, Jigar L. Patel, D. I. Lalwani

Design parameters optimization of a deep-groove ball bearing for different boundary dimensions using Amended Differential Evolution Algorithm (full)

Siyu Yu, Nanning Zheng, Hao Wu, Ming Du, Badong Chen

Exploring Brain Effective Connectivity in Visual Perception Using a Hierarchical Correlation Network (full)

10:45-11:45 Room D: EANN Session 3: (SEC-CLA) Security-Classification

Chair: *Konstantinos Demertzis*

Nikolaos Symeonidis, Christoforos Nalmpantis, Dimitris Vrakas

A benchmark framework to evaluate Energy Disaggregation solutions (full)

Lukas Kaupp, Ulrich Beez, Bernhard G. Humm, Jens Hülsmann

Outlier Detection in Temporal Spatial Log Data using Autoencoder for Industry 4.0 (full)

Nima Joorabloo, Mahdi Jalili, Yongli Ren

A probabilistic graph-based method to improve recommender system accuracy (full)

Daniel Pérez, Serafín Alonso, Antonio Morán, Miguel A. Prada, Juan José Fuertes, Manuel Domínguez

Comparison of network intrusion detection performance using feature representation (full)

11:45-12:00 Coffee Break

12:00-13:00 Room A: Plenary Session 4

Chair: *Panagiotis Papapetrou*

Keynote Speaker: Plamen Angelov

Department of Computing and Communications, University of Lancaster

Title: Empirical Approach: How to get Fast, Interpretable Deep Learning

13:00-14:00 Room A: AIAI Session 5: (FUZ-CON) Fuzzy Rule Based-Constrained

Chair: *Mario Malcangi*

Petr Hajek

Interpretable Fuzzy Rule-Based Systems for Detecting Financial Statement Fraud (full)

Augusto Junio Guimarães, Vinicius Jonathan Silva Araujo, Vanessa Souza Araujo, Lucas Oliveira Batista, Paulo Vitor Campos Souza

A hybrid model based on fuzzy rules to act on the prediction of autism in adults (full)

Suchismita Das, Nikhil R. Pal

An Unsupervised Fuzzy Rule-based Method for Structure Preserving Dimensionality Reduction with Prediction Ability (full)

Ke Liu

Solving the Talent Scheduling Problem by Parallel Constraint Programming (full)

13:00-14:00 Room B: EANN Session 4: (BiOM-BI) Biomedical-Bioinformatics

Chair: *Ilias Maglogiannis*

Stavros Ntalampiras, Ilyas Potamitis

Classification of Sounds Indicative of Respiratory Diseases (full)

Mike Spiliotis, Ana Iglesias, Luis Garrote

A meta-multicriteria approach to estimate drought vulnerability based on fuzzy pattern recognition (full)

Beatriz A Garro, Roberto A Vazquez

A New Generalized Neuron Model applied to DNA Microarray Classification (full)

Georgios Papadopoulos, Nikolaos Vasillas, Anastasios Kessidis

Convolutional Neural Network for Detection of Building Contours Using Multisource Spatial Data (full)

13:00-14:00 Room C: AIAI Session 6: (ML I) Machine Learning I

Chair: *Jaakko Hollmen*

Siva Krishna Dasari, Abbas Cheddad, Petter Andersson

Random Forest Surrogate Models to Support Design Space Exploration in Aerospace Use-case (full)

Stamatios-Aggelos Alexandropoulos, Christos Aridas, Sotiris Kotsiantis, Michael Vrahatis

Stacking strong ensembles of classifiers (full)

Tiago Azevedo, Luca Passamonti, Pietro Lio, Nicola Toschi

A machine learning tool for interpreting differences in cognition using brain features (full)

Theodoros Iliou, Georgia Konstantopoulou, Christina Lympelopoulou, Konstantinos Anastasopoulos, George Anastassopoulos, Dimitrios Margounakis, Dimitrios Lymberopoulos

Iliou Machine Learning Data Preprocessing Method for Suicide Prediction from Family History (full)

13:00-14:00 Room D: EANN Session 5: (OPT-ML) Optimization-Machine Learning

Chair: *Ioannis Refanidis*

Iakov Karandashev, Boris Kryzhanovskiy

Global Minimum Depth In Edwards-Anderson Model (full)

Marco Vannucci, Valentina Colla

Imbalanced Datasets Resampling Through Self Organizing Maps and Genetic Algorithms (full)

Lamprini Kyrkou, Christoforos Nalmpantis, Dimitris Vrakas

Imaging Time-Series for NILM (full)

Sotirios Tasoulis, Georgios Mallis, Spiros Georgakopoulos, Aristidis Vrahatis, Vassilis Plagianakos, Ilias Maglogiannis

Deep Learning and Change Detection for Fall Recognition (full)

14:00-15:00 Lunch

15:10-18:30 Knossos Guided Tour

21:00 Conference Gala Party!!

Sunday 26/5/2019

8:30-15:00 Registration

9:30-10:30 Room A: Plenary Session 5

Chair: *John Macintyre*

Keynote Speaker: John Oomen, School of Computer Science, Carleton University, Ottawa, Canada

Topic: The Power of the “Pursuit” Learning Paradigm in the Partitioning of Data

10:30-11:45 Room A: AIAI Session 7 (DEE I) Deep Learning

Chair: *Serafin Alonso*

Jacek Zurada, Babajide Ayinde, Keishin Nishihama

Diversity Regularized Adversarial Deep Learning (full)

Aliaksandr Barushka, Petr Hajek

Review Spam Detection using Word Embeddings and Deep Neural Networks (full)

Giorgio Morales, Itamar Salazar-Reque, Joel Telles, Daniel Díaz

Detecting Violent Robberies in CCTV Videos Using Deep Learning (full)

Harald Schallner

Capacity Requirements Planning for Production Companies Using Deep Reinforcement Learning (full)

Pradeep Hewage, Ardhendu Behera, Marcello Trovati, Ella Pereira

Long-Short Term Memory for an Effective Short-Term Weather Forecasting Model Using Surface Weather Data (short)

10:30-11:45 Room B: EANN Session 6: (FL-ML) Fuzzy Logic-Machine Learning

Chair: *Will Serrano*

Paul Alexandru Bucur, Philipp Hungerländer

Canonical correlation analysis framework for the reduction of test time in industrial manufacturing quality tests (full)

Ladislava Smítková Janků

Improvement of Routing in Opportunistic Communication Networks of Vehicles by Unsupervised Machine Learning (full)

Mario Malcangi, Marco Malcangi

Bioinspired Early Prediction of Earthquakes inferred by an Evolving Fuzzy Neural Network Paradigm (full)

Jaziar Radianti, Ioannis Dokas, Kees Boersma, Nadia Saad Noori, Nabil Belbachir, Stefan Stieglitz

Enhancing Disaster Response for Hazardous Materials Using Emerging Technologies: The Role of AI and a Research Agenda (short)

10:30-11:45 Room C: AIAI Session 8: (DEE-CON I) Deep Learning-Convolutional I ANN

Chair: *Alexander Wendt*

Ladislav Lenc, Jiří Martínek, Pavel Král

Tools for Semi-automatic Preparation of Training Data for OCR (full)

Jiří Martínek, Ladislav Lenc, Pavel Kral

Training Strategies for OCR Systems for Historical Documents (full)

Andres Ovidio Restrepo Rodriguez, Daniel Esteban Casas Mateus, Paulo Alonso Gaona-Garcia, Adriana Gomez Acosta, Carlos Enrique Montenegro Marin

Segmentation methods for image classification using a Convolutional Neural Network on AR-Sandbox (short)

Linfeng Sui, Xuyang Zhao, Qibin Zhao, Toshihisa Tanaka, Jianting Cao

Localization of Epileptic Foci by Using Convolutional Neural Network Based on iEEG (full)

10:30-11:45 Room D: EANN Session 7: (DEE-CON II) Deep-Convolutional ANN II

Chair: *Paulo Novais*

Vedang Chauhan, Keyur Joshi, Brian Surgenor

Image Classification Using Deep Neural Networks: Transfer Learning and handling unknown Images (full)

Andreea-Iulia Patachi, Florin Leon, Doina Logofatu

A Deep Network System for Simulated Autonomous Driving Using Behavioral Cloning (full)

Hasniza Hassan, Syahid Anuar, Nor Bahiah Ahmad

Students' Performance Prediction Model using Meta-Classifer Approach (full)

Nameer Al Khafaf, Mahdi Jalili, Peter Sokolowski

Application of Deep Learning Long Short-Term Memory in Energy Demand Forecasting (full)

Antonios Karatzoglou

Evolutionary Optimization on Artificial Neural Networks for Predicting the User's Future Semantic Location (full)

11:45-12:00 Coffee Break

12:00-13:15 Room A: AIAI Session 9: (DEE-AND) Deep Learning-Anomaly Detection

Chair: *Antonis Papaleonidas*

Leonardo Matos, Mariana Rodrigues, Ricardo Magalhaes, Victor Alves, Paulo Novais

Interpretability of a Deep Learning Model for Rodents Brain Semantic Segmentation (full)

Neha Bansal, Arun Sharma, R. K. Singh

A Review on the Application of Deep Learning in Legal Domain (full)

Fabio Fassetti, Ilaria Fassetti, Simona Nisticò

Learning and Detecting Stuttering Disorders (full)

Will Serrano

The Blockchain Random Neural Network in Cybersecurity and the Internet of Things (full)

12:00-13:15 Room B: EANN Session 8: (DEE II) Deep Learning II

Chair: *Doina Logofatou*

Spyridon Nikolaidis, Ioannis Refanidis

LEARNAE: Distributed and Resilient Deep Neural Network Training for Heterogeneous Peer to Peer Topologies (full)

Sanjay Kumar, Manish Kumar

Predicting Customer Churn Using Artificial Neural Network (Short)

Biju R Mohan, Nagaraj Naik

Study of Stock Return Predictions using Recurrent Neural Networks with LSTM (short)

Spyridon Papastergiou, Haralambos Mouratidis, Eleni-Maria Kalogeraki

Cyber Security Incident Handling, Warning and Response System for the European Critical Information Infrastructures (CyberSANE) (full)

Serafin Alonso, Antonio Moran, Daniel Pérez, Perfecto Reguera, Ignacio Diaz, Manuel Dominguez

Virtual Sensor Based on a Deep Learning Approach for Estimating Efficiency in Chillers (full)

12:00-13:15 Room C: AIAI Session 10: (AG-MV) Agents-Machine Vision

Chair: *Pavel Kral*

Alexander Wendt, Maximilian Götzinger, Thilo Sauter

An Agent-Based Framework for Complex Networks (full)

Spyridon Blatsios, Ioannis Refanidis

Towards an Adaption and Personalisation Solution based on Multi Agent System Applied on Serious Games (full)

Hanene Lejmi, Mouna Belhaj, Lamjed Ben Said

Studying emotions at work using agent-based modeling and simulation (full)

Huatian Wang, Qinqing Fu, Hongxin Wang, Jigen Peng, Shigang Yue

Constant Angular Velocity Regulation for Visually Guided Terrain Following (full)

12:00-13:15 Room D: AIAI Session 11: (REC-NATI) Recommendation-Nature Inspired

Chair: *Lazaros Iliadis*

Ioannis Schoinas, Christos Tjortjis

MuSIF: A Product Recommendation System Based on Multi-source Implicit Feedback (full)

Giannis Maniadis, Konstantinos N. Vavliakis, Andreas L. Symeonidis

Banner Personalization for e-commerce (full)

Flora Sakketou, Nicholas Ampazis

On the Invariance of the SELU Activation Function on Algorithm and Hyperparameter Selection in Neural Network Recommenders (full)

Antonios Papaleonidas, Lazaros Iliadis, Elias Pimenidis

Hybrid data set optimization in recommender systems using Fuzzy T-norms (full)

Ying Bai, Dali Wang

Using Shallow Neural Network Fitting Technique to Improve Calibration Accuracy of Modeless Robots (short)

13:15-14:15 Lunch

14:15-15:30 Room A: EANN Session 9: (ML II-DEE III) Machine Learning II-Deep Learning III

Chair: Antonios Papaleonidas

Yograj Singh Mandloi, Yoshinobu Inada

Machine Learning Approach for Drone Perception and Control (full)

Stamatios-Aggelos Alexandropoulos, Christos Aridas, Sotiris Kotsiantis, Michael Vrahatis

A Deep Dense Neural Network for Bankruptcy Prediction (full)

Naik Nagaraj, R Mohan Biju

Stock Price Movements Classification using Machine and Deep Learning Techniques. The Case Study of Indian Stock Market (short)

Sanjay Kumar, Arka Bhowmik, Neeraj Bhat

Eye Disease Prediction from Optical Coherence Tomography Images with Transfer Learning (full)

14:15-15:30 Room B: AIAI Session 12: (LEA-CV) Learning -Computer Vision

Chair: Konstantinos Vavliakis

Omar Ghaleb, John Oommen

Learning Automata-based Solutions to the Single Elevator Problem (full)

Xiaodan Deng, Xiaoxuan Sun, Ping Guo, Qian Yin

Image Recognition Based on Combined filters with Pseudoinverse Learning Algorithm (short)

Dimitrios Arampatzis, Maria Doulgeraki, Michail Giannoulis, Evropi Stefanidi, Theodore Patkos

EduBAI: An Educational Platform for Logic-based Reasoning (short)

Sandeep Singh Sengar

Motion segmentation based on structure-texture decomposition and improved three frame differencing (full)

15:30-15:45 Room A: Closing Session