Program at a Glance

MONDAY, Nov. 04, 2019

AI THEORY - 1	AI METHODS-TOOLS - 1	AI METHODS-TOOLS - 2	AI APPLICATIONS - 1
SATISFIABILITY - 1	DEEP LEARNING - 1	NEURAL NETS - 1	IMAGING - 1
SATISFIABILITY - 2	MACHINE LEARNING - 1	SEARCH - RECOGNITION	APPLICATIONS - 1
PLANNING	NLP / NLU - 1	METHODS -TOOLS-1	IMAGING - 2
REASONING	NLP / NLU - 2	CLASSIFICATION - 1	RECOMMENDATION - 1

TUESDAY, Nov. 05, 2019

AI METHODS-TOOLS - 3	AI METHODS-TOOLS - 4	AI METHODS-TOOLS-5	AI APPLICATIONS - 2
METHODS - TOOLS-2	DEEP LEARNING - 2	CLASSIFICATION - 2	IMAGING - 3
NEURAL NETS - 2	MACHINE LEARNING - 2	CLASSIFICATION - 3	RECOMMENDATION-2
METHODS -TOOLS- 3	DEEP LEARNING - 3	CLASSIFICATION - 4	RECOMMENDATION - 3
NEURAL NETS - 3	MACHINE LEARNING - 3	NLP/NLU-3	MISCELLANEOUS

WEDNESDAY, Nov. 05, 2019

AI METHODS-TOOLS - 6	AI METHODS-TOOLS - 7	AI METHODS-TOOLS-8	AI APPLICATIONS - 3
NEURAL NETS - 4	MACHINE LEARNING - 4	NLP / NLU - 4	APPLICATIONS - 2
METHODS - TOOLS-4	MACHINE LEARNING - 5	NLP / NLU - 5	APPLICATIONS - 3
METHODS-TOOLS - 5	DEEP LEARNING - 4		IMAGING - 4

Main Program

Day 1: Monday, November 4, 2019

REGISTRATION
07:00 - 13:00

OPENING WELCOME
08:00 - 08:10

Keynote Talk: **Human/Machine partnership for decision support in the national security domain**, *Dr. Fotis Barlos, DARPA*
08:10 - 09:00

Topic Tracks
09:00 - 11:00

SATISFIABILITY - 1	**DEEP LEARNING - 1**	**NEURAL NETS - 1**	**IMAGING - 1**
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(174, 178, 217, 312, 359, 451)	**(62, 66, 200, 201, 205, 232)**	**(99, 114, 167, 194, 199, 206)**	**(9, 14, 24, 82, 93, 175)**
174-Benchmarking Symbolic Execution Using Constraint Problems - Initial Results, *Sahil Verma and Roland Yap*	62-Deep Reinforcement Learning with Model-based Acceleration for Hyperparameters Optimization, *Senpeng Chen, Jia Wu and Xiuyun* Chen	99-Mini Lesions Detection on Diabetic Retinopathy Images via Large Scale CNN Features, *Qilei Chen, Xinzi Sun, Ning Zhang, Yu Cao and Benyuan Liu*	9-Recovering Extremely Degraded Faces by Joint Super-Resolution and Facial Composite, *Xiu Li, Guichun Duan, Zhouxia Wang, Sijie Ren, Yongbing Zhang, Jiawei Zhang and Kaixiang Song*
178-On Solving Exactly-One-SAT, *Yazid Boumarafi and Yakoub Salhi*	66-Internet of Things Security Analytics and Solutions with Deep Learning, *Luke Holbrook and Miltos Alamaniotis*	114-A Multi-channel Neural Network for Imbalanced Emotion Recognition, *Ran Li, Qingyi Si, Peng Fu, Zheng Lin, Weiping Wang and Gang* Shi	14-SOON: Specifically Optimized One-Stage Network for Object Detection in Remote Sensing Imagery, *Zhuo Wang, Haonan Qin, Yunsong Li,* Jie Lei and Weiying Xie
217-Guaranteed Diversity & Quality for the Weighted CSP, *Manon Ruffini, Jelena Vucinic, Simon de Givry, George Katsirelos, Sophie Barbe and Thomas Schiex*	200-Deep Reinforcement Learning for Time Optimal Velocity Control using Prior Knowledge, *Gabriel Hartmann, Zvi Shiller and Amos Azaria*	167-Automatic 2D-to-3D video conversion using 3D densely connected convolutional networks, *Bei Chen and Jiabin Yuan*	24-Partial Attribute-Driven Video Person Re-identification, *Wanru Song, Jieying Zheng, Yahong Wu, Changhong Chen and Feng Liu*
312-Automating Elevator Design with Satisfiability Modulo Theories, *Stefano Demarchi, Marco Menapace and Armando Tacchella*	201-Shallow Deep Learning: Embedding Verbatim K-Means in Deep Neural Networks, *Len Du*	194-Predicting User Reported Symptoms Using a Gated Neural Network, *Lahari Poddar, Wynne Hsu and Mong Li Lee*	82-Effective Person Re-Identification with Refined Attribute-Aligned Network Learning, *Yuxuan Shi, Hefei Ling, Jialie Shen and Ping Li*
359-Synthesis of Boolean Networks from Biological Dynamical Constraints using Answer-Set Programming, *Stéphanie Chevalier, Christine* Froidevaux, Loïc Paulevé and Andrei Zinovyev	205-Coordination in Adversarial Multi-Agent with Deep Reinforcement Learning under Partial Observability, *Elhadji Amadou Oury Diallo and Toshiharu Sugawara*	199-Cross-subject EEG signal recognition employing deep domain adaptation network, *Wenlong Hang, Wei Feng, Shuang Liang and Xuejun Liu*	93-CPDM: An Efficient Crowdsensing-based Pothole Detection and Measurement System Design, *Xiaofeng Zhao, Xiaocan Wu, Yu-E Sun, He Huang, Yang Du and Zhen Cao*

Day 1: Monday, November 4, 2019

Topic Tracks

09:00 - 11:00

SATISFIABILITY - 1	DEEP LEARNING - 1	NEURAL NETS - 1	IMAGING - 1
451-Exploiting data mining techniques for compressing constraint tables, *Soufia Bennai, Kamal Amroun and Samir Loudni*	232-Parallel Gym Gazebo: a Scalable Parallel Robot Deep Reinforcement Learning Platform, *Zhen Liang, Zhongxuan Cai, Minglong Li and Wenjing Yang*	206-A Unified Approximation Framework for Compressing and Accelerating Deep Neural Networks, *Yuzhe Ma, Ran Chen, Wei Li, Fanhua Shang, Wenjian Yu, Minsik Cho and Bei Yu*	175-FMNet: Feature Mining Networks for Brain Tumor Segmentation, *Fengming Lin, Ju Liu, Qiang Wu, Xiangmao Kong, Waliullah Khan, Wei Shi and Enshuai Pang*

LUNCH BREAK

11:00 - 13:00

Topic Tracks

13:00 - 15:00

SATISFIABILITY - 2	MACHINE LEARNING - 1	SEARCH - RECOGNITION	APPLICATIONS - 1
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(479, 484, 519, 616, 617)	**(16, 35, 38, 40, 69, 117)**	**(78, 100, 268, 307, 313, 554)**	**(363, 477, 514, 522, 599, 612)**
479-Combining Constraint Languages via Abstract Interpretation, *Pierre Talbot, David Cachera, Eric Monfroy and Charlotte Truchet*	16-Adversarial Capsule Learning for Network Embedding, *Di Jin, Zhigang Li, Liang Yang, Dongxiao He, Pengfei Jiao and Lu Zhai*	78-A Probabilistic Forward Search Value Iteration Algorithm for POMDP, *Feng Liu, Cheng Lei, Hanyi Liu and Chongjun Wang*	363-No-PASt-BO: Normalized Portfolio Allocation Strategy for Bayesian Optimization, *Thiago Vasconcelos, Daniel de Souza, Csar Mattos and Joo Gomes*
484-Centrality Heuristics for Exact Model Counting, *Bernhard Bliem and Matti Järvisalo*	35-Semi-Supervised Ovulation Detection Based on Multiple Properties, *Amos Azaria and Seagal Azaria*	100-A Divide and Conquer Algorithm for Dominance Testing in Acyclic CP-nets, *Sultan Ahmed and Malek Mouhoub*	477-Texture CNN for Thermoelectric Metal Pipe Image Classification, *Daniel Vriesman, Alessandro Koerich, Alceu Britto Jr. and Alessandro Zimmer*
519-Memory Efficient Parallel SAT Solving with Inprocessing, *Markus Iser, Tomas Balyo and Carsten Sinz*	38-Distant-supervised Relation Extraction with Hierarchical Attention Based on Knowledge Graph, H*ong Yao, Lijun Dong, Shiqi Zhen, Xiaojun Kang, Xinchuan Li and Qingzhong Liang*	268-Generating reduced tests for FSMs using a search-based testing approach, *Mariana Ramada, Telma de Lima, Adenilso Simao and Anderson Soares*	514-A Multi-Index Examination Cheating Detection Method Based on Neural Network, *Zhizhuang Li and Zhengzhou Zhu*
616-Refining Constraint Weighting, *Hugues Wattez, Frédéric Koriche, Christophe Lecoutre, Anastasia Paparrizou and Sébastien Tabary*	40-Approximating Learning Curves for Imbalanced Big Data with Limited Labels, *Aaron Richter and Taghi Khoshgoftaar*	307-AERNs: Attention-Based Entity Region Networks for Multi-Grained Named Entity Recognition, *Jianghai Dai, Chong Feng and Xuefeng Bai*	522-GLmser: A GAN-Lmser Network for Image-to-Image Translation, *Haote Yang and Shikui Tu*

Day 1: Monday, November 4, 2019

Topic Tracks

13:00 - 15:00

SATISFIABILITY - 2	MACHINE LEARNING - 1	SEARCH - RECOGNITION	APPLICATIONS - 1
617-A Survey on Applications of Quantified Boolean Formulas, *Ankit Shukla, Armin Biere, Luca Pulina and Martina Seidl*	69-An Adjusted Nearest Neighbor Algorithm Maximizing the F-Measure from Imbalanced Data, *Rmi Viola, Rmi Emonet, Amaury Habrard, Guillaume Metzler, Sbastien Riou and Marc Sebban*	313-Monte Carlo Tree Search with Variable Simulation Periods for Continuously Running Tasks, *Seydou Ba, Takuya Hiraoka, Takashi Onishi, Toru Nakata and Yoshimasa Tsuruoka*	599-Stealthy Malware Detection using RNN-based Automated Localized Feature Extraction and Classifier, *Sanket Shukla, Gaurav Kolhe, Sai Manoj Pudukotai Dinakarrao and Setareh Rafatirad*
	117-The Concept of Criticality in Reinforcement Learning, *Yitzhak Spielberg and Amos Azaria*	554-KNORA-IU: Improving the dynamic selection prediction in imbalanced credit scoring problems, *Leopoldo Melo Junior, Jose Macedo, Franco Maria Nardini and Chiara Renso*	612-Multi-Target Multi-Camera Tracking with Human Body Part Semantic Features, *Mingkun Wang*

BREAK

15:00 - 15:15

Topic Tracks

15:15 - 17:15

PLANNING	NLP / NLU - 1	METHODS - TOOLS-1	IMAGING - 2
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(124, 202, 335, 414, 505, 518)	**(36, 105, 156, 209, 228, 252)**	**(13, 17, 32, 74, 157, 211)**	**(182, 191, 192, 213, 214, 244)**
124-Intention Interleaving Via Classical Replanning, *Mengwei Xu, Kevin McAreavey, Kim Bauters and Weiru Liu*	36-Math Expression Image Retrieval via Attention-based Framework, *Caili Wu, Hao Ye, Zhao Zhou, Jing Yang and Liang He*	13-Agnostic local explanations for time series classification, *Mal Guillem, Vronique Masson, Laurence Roze and Alexandre Termier*	182-ECPNet: An Efficient Attention-Based Convolution Network with Pseudo-3D Block for Human Action Recognition, *Xiuping Bao and Jiabin Yuan*
202-Multi-Agent Path Planning with Heterogeneous Cooperation, *Keisuke Otaki, Satoshi Koide, Keiichiro Hayakawa, Ayano Okoso and Tomoki Nishi*	105-Sentence-Level Semantic Features Guided Adversarial Network for Zhuang language part-of-speech Tagging, *Zhixin Li, Yaru Sun, Suqin Tang, Canlong Zhang and Huifang Ma*	17-Using Hyperparameter Prior Value and Hyperparameter Gradient to Accelerate SMBO, *Daning Cheng, Hanping Zhang, Fen Xia, Shigang Li and Yunquan Zhang*	191-Triplet Deep Hashing with Joint Supervised Loss for Fast Image Retrieval, *Mingyong Li, Hongya Wang, Liangliang Wang and Kaixiang Yang*
335-Collision-free path finding for dynamic gaming and real time robot navigation, *Roopam Bamal*	156-Text-Independent Speaker ID Employing 2D-CNN for Automatic Video Lecture Categorization in a MOOC Setting, *Ali Shariq Imran, Zenun Kastrati, Torbjorn Svendsen and Arianit Kurti*	32-Ant Colony Optimization Parameters Control Based on Evolutionary Strength, *Chen Chang, Jianjun Cao, Nianfeng Weng and Guojun Lv*	192-Automatic identification of Alzheimer's disease and epilepsy based on MRI, *Xijue Zhang, Wanling Li, Wangshu Shen, Lin Zhang, Xiaorong Pu and Lei Chen*

Day 1: Monday, November 4, 2019

Topic Tracks

15:15 - 17:15

PLANNING	NLP / NLU - 1	METHODS - TOOLS-1	IMAGING - 2
414-Routing Sales Territory by solving a Multi-objective TSP variant with Evolutionary Algorithms, *Savio Menezes Sampaio, Altino Dantas and Celso G. Camilo-Junior*	209-Document Clustering and Topic Modeling: A Unified Bayesian Probabilistic Perspective, *Gianni Costa and Riccardo Ortale*	74-Budget-Constrained Demand-Weighted Network Design for Resilient Infrastructure, *Amrita Gupta and Bistra Dilkina*	213-Salient Textural Anomaly Proposals and Classification for Metal Surface Anomalies, *Vidhya Natarajan, Shangbo Mao and Liang-Tien Chia*
505-A comparison of contextual bandit approaches to human-in-the-loop robot task completion with infrequent feedback, *Matthew McNeill and Damian Lyons*	228-Improving Irregular Text Recognition by Integrating Gabor Convolutional Network, *Zhaohong Guo, Hui Xu, Feng Lu, Qiufeng Wang, Xiangdong Zhou and Yu Shi*	157-On the convergence speed of AMSGRAD and beyond, *Tao Tan and Shiqun Yin*	214-Texture Recognition on Metal Surface using Order-less Scale Invariant GLAC, *Shangbo Mao, Vidhya Natarajan, Liang-Tien Chia and Guang-Bin Huang*
518-Random Walk-based Top-k Tag Generation in Bipartite Networks of Entity-Term Type, *Mingxi Zhang, Guanying Su and Wei Wang*	252-Aspect-Based Sentiment Analysis with Adjustments to Irrelevant Sentimental-Related Features, *Huiwen Jiang, Weigang Wu and Jiangtao Ren*	211-TPOT-SH: a Faster Optimization Algorithm to Solve the AutoML Problem on Large Datasets, *Laurent Parmentier, Olivier Nicol, Laetitia Jourdan and Marie-Eleonore Kessaci*	244-AFP-Net: Realtime Anchor-Free Polyp Detection in Colonoscopy, *Dechun Wang, Ning Zhang, Xinzi Sun, Pengfei Zhang, Chenxi Zhang, Yu Cao and Benyuan Liu*

BREAK

17:15 - 17:30

Topic Tracks

17:30 - 19:30

REASONING	NLP / NLU - 2	CLASSIFICATION - 1	RECOMMENDATION - 1
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(85, 119, 121, 427, 588)	**(354, 375, 392, 398, 447, 453)**	**(50, 86, 112, 141, 197, 538)**	**(61, 64, 106, 126, 127)**
85-Cases without borders: Automating Knowledge Acquisition Approach using Deep Autoencoders and Siamese Networks in Case-based Reasoning, *Kareem Amin, Stelios Kapetanakis, Klaus-Dieter Althoff, Andreas Dengel and Miltos Petridis*	354-Deep Captioning Hashing Network for Complex Scene Image Retrieval, *Song Liu, Jiawei Zhan, Zhiqiang Bai and Yuesheng Zhu*	50-METAPHOR - A Multiagent Architecture using IoT and Classification Algorithms for referral Postoperative Patients, *Afonso Lima, Tiberio Loureiro, Marcial Fernandez, Fernando Trinta and Jerry Vasconcelos*	61-MALP: A More Effective Meta-Paths Based Link Prediction Method in Partially Aligned Heterogeneous Social Networks, *Kai Zhu, Meng Cao, Heng-Yang Lu and Chong-Jun Wang*
119-Weak Detection Based Convolution Neural Network For Pornographic Image Recognition, *Hao Zeng, Hefei Ling, Jiazhong Chen and Ping Li*	375-Text-Enhanced Knowledge Representation Learning Based on Gated Convolutional Networks, *Chunfeng Liu, Yan Zhang, Mei Yu, Xuewei Li, Mankun Zhao, Tianyi Xu, Jian Yu and Ruiguo Yu*	86-AudioMask: Robust Sound Event Detection Using Mask R-CNN and Frame-Level Classifier, *Alireza Nasiri, Yuxin Cui, Zhonghao Liu, Jing Jin, Yong Zhao and Jianjun Hu*	64-SARC: Split-and-recombine Networks for Knowledge-based Recommendation, *Weifeng Zhang, Yi Cao and Congfu Xu*

Day 1: Monday, November 4, 2019			
Topic Tracks 17:30 - 19:30			
REASONING	**NLP / NLU - 2**	**CLASSIFICATION - 1**	**RECOMMENDATION - 1**
121-Fence GAN: Towards Better Anomaly Detection, *Phuc Cuong Ngo, Amadeus Aristo Winarto, Connie Khor Li Kou, Sojeong Park, Farhan Akram and Hwee Kuan Lee*	392-An Efficient Approach for Semantic Relatedness Evaluation based on Semantic Neighborhood, *Alcides Lopes, Renata Alvarenga, Joel Carbonera and Mara Abel*	112-Regularized Non-negative Spectral Embedding for Clustering, *Yifei Wang, Rui Liu, Yong Chen, Hui Zhang and Zhiwen Ye*	106-Element-aware Legal Judgment Prediction for Criminal Cases with Confusing Charges, *Shang Li, Boyang Liu, Lin Ye, Hongli Zhang and Binxing Fang*
427-An End-to-End Abnormal Fastener Detection Method Based on Data Synthesis, *Bangyi Dong, Qingyong Li, Jianzhu Wang, Wei Huang, Peng Dai and Shengchun Wang*	398-Semi-supervised Cross-Modal Hashing Based on Label Prediction and Distance Preserving, *Xu Zhang, Xin Tian, Bing Yang, Zuyu Zhang and Yan Li*	141-An Efficient Truth Discovery Mechanism for Crowdsensing Tasks with Temporal and Spatial Correlations, *Runzhi Wang, Yue Sun, He Huang, Le Lu, Yang Du and Danlei Huang*	126-A Location-Aware Strategy for Agents Negotiating Load-balancing, *Quentin Baert, Anne-Cecile Caron, Maxime Morge, Jean-Christophe Routier and Kostas Stathis*
588-Reasoning About Future Cyber-Attacks Through Socio-Technical Hacking Information, *Ericsson Marin, Mohammed Almukayniz and Paulo Shakarian*	447-Self-Learned Feature Reconstruction and Offset-Dilated Feature Fusion for Real-Time Semantic Segmentation, *Gege Qi, Lin Pan and Yuesheng Zhu*	197-A subspace hierarchical clustering algorithm for categorical data, *Joel Lus Carbonera and Mara Abel*	127-A Dynamic Knowledge Generation System for Cognitive Agents, *Antonio Lieto, Gian Luca Pozzato, Federico Perrone and Eleonora Chiodino*
	453-Scaling up Prediction of Psychosis by Natural Language Processing, *Dong Si, Sunny Chieh Cheng, Ruiwen Xing, Chang Liu and Hoi Yan Wu*	538-Multi-label Emotion Classification in Music Videos Using Ensembles of Audio and Video Features, *Bruno Kostiuk, Yandre M. G. Costa, Alceu S. Britto Jr., Xiao Hu and Carlos N. Silla Jr.*	

Main Program

Day 2: Tuesday, November 5, 2019

REGISTRATION
08:00 - 12:00

Keynote Speaker: "XX", Dr. Xiangyu Zhang, Purdue University
08:00 - 09:00

Topic Tracks

09:00 - 11:00

METHODS-TOOLS - 2	DEEP LEARNING - 2	CLASSIFICATION - 2	IMAGING - 3
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(293, 324, 348, 393, 405, 422)	**(269, 272, 369, 380, 394, 400)**	**(230, 234, 237, 248, 283, 308)**	**(250, 253, 368, 424, 432, 461)**
293-Online Kernel Selection via Grouped Adversarial Bandit Model, *Junfan Li and Shizhong Liao*	269-Experience Selection in Multi-Agent Deep Reinforcement Learning, *Yishen Wang*	230-Visual Sequence Place Recognition with Improved Dynamic Time Warping, *Feng Lu, Baifan Chen, Zhaohong Guo and Xiangdong Zhou*	250-An Efficient Semantic Segmentation Method using Pyramid ShuffleNet V2 with Vortex Pooling, *Jiansheng Dong, Jingling Yuan Yuan, Lin Li, Xian Zhong and Weiru Liu*
324-Optimizing Value of Information over an Infinite Time Horizon, *Sarthak Ghosh and C. R. Ramakrishnan*	272-Applying Deep Learning and Wearable Devices for Educational Data Analytics, *Zhenxing Zhou, Vincent Tam, K.S. Lui, Edmund Lam, Allan Yuen, Xiao Hu and Nancy Law*	234-Heterogeneous Transfer Clustering for Partial Co-occurrence Data, *Xiangyang Ye, Liu Yang, Qinghua Hu, Chenyang Shen, Liping Jing and Zhibin Du*	253-Few-Shot Learning for Monocular Depth Estimation based on Local Object Relationship, *Shuai Li, Jiaying Shi, Wenfeng Song, Aimin Hao and Hong Qin*
348-Automating Personnel Rostering by Learning Constraints Using Tensors, *Mohit Kumar, Stefano Teso, Patrick De Causmaecker and Luc De Raedt*	369-Graph Colouring Meets Deep Learning: Effective Graph Neural Network Models for Combinatorial Problems, *Henrique Lemos, Marcelo Prates, Pedro Avelar and Luis Lamb*	237-A CNN-RNN Hybrid Model with 2D Wavelet Transform Layer for Image Classification, *Zihao Dong and Xiuli Shao*	368-Learning Spatial-Corrected Regularized Correlation Filters for Visual Tracking, *Zhaobin Yang, Jing Wu and Chengnian Long*
393-Towards a Hybrid Approach for Evolving Bayesian Networks Using Genetic Algorithms, *Sonu Jose, Siming Liu, Sushil Louis and Sergiu Dascalu*	380-Object Detection Boosting using Object Attributes in Detect and Describe Framework, *Muhammad Jahanzeb Khan, Adeel Zafar, Valeriia Tumanian, Ding Yue and Guoqiang Li*	248-Fine-grained Image Classifcation Combined with Label Description, *Xiruo Shi, Liutong Xu and Pengfei Wang*	424-A Robust Single-sensor Face and Iris Biometric Identification System based on Multimodal Feature Extraction Network, *Zhengding Luo, Qinghua Gu, Yuesheng Zhu and Zhiqiang Bai*
405-An eigenvector-enhanced parallel adaptive differential evolution for electric motor design, *Mokhtar Essaid, Mathieu Brvilliers, Julien Lepagnot, Lhassane Idoumghar and Daniel Fodorean*	394-Driver Identification Based on Vehicle Telematics Data using LSTM-Recurrent Neural Network, *Abenezer Girma, Xuyang Yan and Abdollah Homaifar*	283-Data-driven Gene Regulatory Network Inference based on Classification Algorithms, *Sergio Peignier, Pauline Schmitt and Federica Calevro*	432-Deep Multi-Label Hashing for Image Retrieval, *Xian Zhong, Jiachen Li, Wenxin Huang and Liang Xie*

Day 2: Tuesday, November 5, 2019

Topic Tracks

09:00 - 11:00

METHODS-TOOLS - 2	DEEP LEARNING - 2	CLASSIFICATION - 2	IMAGING - 3
422-An Effective Dynamic Programming Algorithm for Optimal Coalition Structure Generation, *Narayan Changder, Aknine Samir and Animesh Dutta*	400-Deep Unsupervised Progressive Learning for Distant Domain Adaptation, *Suncheng Xiang, Yuzhuo Fu and Ting Liu*	308-Targeted Sentiment Classification with Knowledge Powered Attention Network, *Ximo Bian, Chong Feng and Arshad Ahmad*	461-An Efficient Spatial-Temporal Polyp Detection Framework for Colonoscopy Video, *Pengfei Zhang, Xinzi Sun, Dechun Wang, Xizhe Wang, Yu Cao and Benyuan Liu*

LUNCH BREAK

11:00 - 13:00

Topic Tracks

13:00 - 15:00

NEURAL NETS - 2	MACHINE LEARNING - 2	CLASSIFICATION - 3	RECOMMENDATION - 2
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(207, 255, 270, 281, 325, 420)	**(122, 171, 185, 242, 259, 290)**	**(319, 323, 360, 367, 387, 408)**	**(76, 101, 362, 407, 412, 586)**
207-Multi-Granularity Position-Aware Convolutional Memory Network for Aspect-Based Sentiment Analysis, *Yuanyuan Pan, Jun Gan, Xiangying Ran and Chongjun Wang*	122-MABWiser: A Parallelizable Contextual Multi-Armed Bandit Library for Python, *Emily Strong, Bernard Kleynhans and Serdar Kadolu*	319-Cancer Classification Using Microarray Data By DPCAForest, *Xiaoheng Deng and Yuebin Xu*	76-Collective Mobile Sequential Recommendation: A Recommender System for Multiple Taxicabs, *Tongwen Wu, Zizhen Zhang, Yanzhi Li and Jiahai Wang*
255-Residual Neural Network based Classification of Macular Edema in OCT, *Huang Yueyao and Hu Junjie*	171-Harnessing GAN with Metric Learning for One-Shot Generation on a Fine-Grained Category, *Yusuke Ohtsubo, Tetsu Matsukawa and Einoshin Suzuki*	323-Towards explainable multi-label classification, *Karim Tabia*	101-New Approaches to the Identification of Dependencies between Requirements, *Ralph Samer, Alexander Felfernig, Martin Stettinger, Muesluem Atas, Guenther Ruhe and Gouri Deshpande*
270-Multi-Graph Convolution Network with Jump Connection for Event Detection, *Xiangbin Meng, Pengfei Wang, Haoran Yan, Liutong Xu, Jiafeng Guo and Yixing Fan*	185-Metric Learning from Imbalanced Data, *Lo Gautheron, Amaury Habrard, Emilie Morvant and Marc Sebban*	360-EPMS: A framework for large-scale patient matching, *Himanshu Singhal, Harish Ravi, Sathiya Narayan Chakravarthy, Prabavathy Balasundaram and Chitra Babu*	362-A Novel Method to Enhance Recommendation Systems via Leveraging Multiple Types of Implicit Feedbacks, *Zhenxu Yao and Zhiyun Chen*
281-Constrained State-Preserved Extreme Learning Machine, *Garrett Goodman, Cogan Shimizu and Iosif Papadakis Ktistakis*	242-Transfer Learning with Ensemble Feature Extraction and Low-rank Matrix Factorization for Severity Stage Classification of Diabetic Retinopathy, *W.O.K.I.S. Wijesinghe, Lakmini Chathurika and Charith Chitraranjan*	367-Bayesian Network Learning for Classification via Transfer Method, *April Hua Liu and Zihao Cheng*	407-TMRM: Two-stage Multi-task Recommendation Model Boosted Feature Selection, *Fan Zhu, Juan Yang and Pengfei Wang*

Day 2: Tuesday, November 5, 2019

Topic Tracks

13:00 - 15:00

NEURAL NETS - 2	MACHINE LEARNING - 2	CLASSIFICATION - 3	RECOMMENDATION - 2
325-Reconciling Feature-Reuse and Overfitting in DenseNet with Specialized Dropout, *Kun Wan, Shu Yang, Lingwei Xie and Yufei Ding*	259-Accelerating Nash Q-Learning with Graphical Game Representation and Equilibrium Solving, *Yunkai Zhuang, Xingguo Chen, Yang Gao and Yujing Hu*	387-Fusing Vector Space Models for Domain-Specific Applications, *Laura Rettig, Julien Audiffren and Philippe Cudr-Mauroux*	412-Data Stream Mining for Clickstream E-commerce Recommendation, *Edson Silva and Fabrico Enembreck*
420-A One-step Pruning-recovery Framework for Acceleration of Convolutional Neural Networks, *Dong Wang, Xiao Bai, Lei Zhou and Jun Zhou*	290-Embedding Learning with Heterogeneous Event Sequence for Insider Threat Detection, *Jiarong Wang, Lijun Cai, Aimin Yu and Dan Meng*	408-Solving Traveling Salesman Problem with Image-based Classification, *Shoma Miki and Hiroyuki Ebara*	586-Cost-Effective Prediction in Medicine and Marketing: Only the Difference Between Bayesian Model Averaging and the Single Best-Fit Model, *Paul Darwen*

BREAK

15:00 - 15:15

Topic Tracks

15:15 - 17:15

METHODS -TOOLS- 3	DEEP LEARNING - 3	CLASSIFICATION - 4	RECOMMENDATION - 3
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(487, 511, 528, 540, 551, 613)	**(464, 548, 600, 603)**	**(210, 545, 210, 593, 611, 84)**	**(92, 150, 155, 190, 434, 478)**
487-Modeling uncertainty and inaccuracy on data from crowdsourcing platforms: MONITOR, *Constance Thierry, Jean-Christophe Dubois, Yolande le Gall and Arnaud Martin*	464-Motion Coordination of Multiple Robots Based on Deep Reinforcement Learning, *Xiuzhao Hao, Zhihao Wu, Haiguang Zhou, Xiangpeng Bai, Youfang Lin and Sheng Han*	210-Monaural Music Source Separation using a ResNet Latent Separator Network, *Gino Brunner, Nawel Naas, Sveinn Palsson, Oliver Richter and Roger Wattenhofer*	150-Adversarial Attack against DoS Intrusion Detection: An Improved Boundary-Based Method, *Xiao Peng, Weiqing Huang and Zhixin Shi*
511-Dynamic multi-population artificial bee colony algorithm, *Xinyu Zhou, Yiwen Ling, Maosheng Zhong and Mingwen Wang*	548-Experience Sharing Between Cooperative Reinforcement Learning Agents, *Lucas Oliveira Souza, Gabriel de Oliveira Ramos and Celia Ghedini Ralha*	545-A Decision-Based Dynamic Ensemble Selection Method for Concept Drift, *Regis Albuquerque, Albert Costa, Eulanda M. Santos, Robert Sabourin and Rafael Giusti*	155-Knowledge graph embedding by Bias Vectors, *Minjie Ding, Weiqin Tong, Xuehai Ding, Xiaoli Zhi and Guoqing Zhang*
528-Robust Point Set Registration with Mixture Re-weighting Based on Relative Geometric Structures, *Yucheng Shu, Zhenlong Liao and Dan Luo*	600-Deep learning Poison Data Attack Detection, *Henry Chacon, Samuel Silva and Paul Rad*	580-Towards a High-Level Multi-Label Classification from Complex Networks, *Vincius Resende and Murillo Carneiro*	478-Reverse Auction Based Incentive Order Matching Mechanism for Real-time Ride-sharing, *Bing Shi, Liquan Zhu and Yikai Luo*

Day 2: Tuesday, November 5, 2019

Topic Tracks

15:15 - 17:15

METHODS -TOOLS- 3	DEEP LEARNING - 3	CLASSIFICATION - 4	RECOMMENDATION - 3
540-Least absolute deviations constraints to tackle fairness in physician scheduling in emergency rooms, *Valdemar Abrao P. A Devesse, Marcio Da Silva Arantes, Kerem Akartunalo and Claudio Fabiano Motta Toledo*	603-Estimating Vehicle Speed on Highway Roads fromSmartphone Sensors Using Deep Learning Models, *Norhan Abd Elgawad, Ahmed Elmahdy, Walid Gomaa and Amin Shoukry*	593-Effects of Integrated Instance-Random-Sampling and Feature Reduction on Classifiers Performance and Training Speed, *Reham Alamro and Abdou Youssef*	190-The Application of Network based Embedding in Local Topic Detection from Social Media, *Junsha Chen, Neng Gao, Cong Xue, Yifei Zhang and Chenyang Tu*
551-Manifold Regularized Stochastic Block Model, *Tiantian He, Lu Bai and Yew-Soon Ong*		611-Opinion Spam Detection via Heterogeneous Collective Classification, *Yingcheng Sun and Richard Kolacinski*	434-Graph Attention Networks for Neural Social Recommendation, *Nan Mu, Daren Zha, Yuanye He and Zhihao Tang*
613-Improving the Accuracy of Principal Component Analysis by the Maximum Entropy Method, *Guihong Wan, Crystal Maung and Haim Schweitzer*		84-Gorthaur : A Portfolio Approach for Dynamic Selection of Multi-Armed Bandit Algorithms for Recommendation, *Nicolas Gutowski, Tassadit Amghar, Olivier Camp and Fabien Chhel*	92 - Threshold Based Optimization of Performance Metrics with Severely Imbalanced Big Security Data, *Chad Calvert and Taghi Khoshgoftaar*

BREAK

17:15 - 17:30

Topic Tracks

17:30 - 19:30

NEURAL NETS - 3	MACHINE LEARNING - 3	NLP / NLU - 3	MISCELLANEOUS
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(423, 460, 494, 497, 498, 503)	**(297, 300, 320, 338, 388, 411)**	**(482, 529, 530, 536, 556, 309)**	**(413, 496, 568, 219, 561, 563)**
423-RegCNN: A Deep Multi-output Regression Method for Wastewater Treatment, *Luoyi Zhang, Xiaowen Ma, Peng Shi, Sheng Bi and Chongjun Wang*	297-Learning Sparse Support Vector Machine with Relaxation and Rounding, *Xiangyu Tian and Shizhong Liao*	482-Sentiment-aware Classification of Danmaku Based on Convolutional Neural Network and Attention, *Zeyu Chen, Yan Tang, Zuowei Zhang, Chengyang Zhang and Luwei Wang*	413-Using Classical Planning in Adversarial Problems, *Pavel Rytir, Lukas Chrpa and Branislav Bosansky*
460-Crowd Counting via Enhanced Feature Channel Convolutional Neural Network, *Yinlong Bian, Jie Shen, Xin Xiong, Ying Li, Wei He and Peng Li*	300-Information-theoretic Ensemble Learning for DDoS Detection with Adaptive Boosting, *Monowar H. Bhuyan, Maode Ma, Youki Kadobayashi and Erik Elmroth*	529-Implementing Ranking-Based Semantics in ConArg, *Stefano Bistarelli, Francesco Faloci and Carlo Taticchi*	496-Federated Learning of Unsegmented Chinese Text Recognition Model, *Xinghua Zhu, Jianzong Wang, Zhenhou Hong and Jing Xiao*
494-Unsupervised pedestrian trajectory prediction with graph neural networks, *Mingkun Wang, Dianxi Shi, Naiyang Guan, Tao Zhang and Liujing Wang*	320-Transfer Learning on Decision Tree with Class Imbalance, *Ludovic Minvielle, Mounir Atiq, Sergio Peignier and Mathilde Mougeot*	530-Graph-based Attention Networks for Aspect Level Sentiment Analysis, *Chen Junjie, Hou Hongxu, Jing Gao and Tiangang Bai*	568-Evaluating different configurations of an evolutionary wrapper for attack detection, *Javier Maldonado and Mara Cristina Riff*

Day 2: Tuesday, November 5, 2019

Topic Tracks

17:30 - 19:30

NEURAL NETS - 3	MACHINE LEARNING - 3	NLP / NLU - 3	MISCELLANEOUS
497-High-speed Rail Operating Environment Recognition Based on Neural Network and Adversarial Training, *Xiaoxue Hou*	338-EsiNet: Enhanced Network Representation via Further Learning the Semantic Information of Edges, *Zheng Anqing, Feng Chong and Yang Fang*	536-FPSeq: Simplifying and Accelerating Task-oriented Dialogue Systems via Fully Parallel Sequence-to-Sequence Framework, *Meina Song, Zhongfu Chen, Peiqing Niu and Haihong E*	219-Anomaly Detection, Consider your Dataset First, An illustration on Fraud Detection, *Ayman Alazizi, Amaury Habrard, Francois Jacquenet, Liyun He-Guelton, Wissam Siblini and Frederic Oble*
Integrating an Attention Mechanism and Deep Neural Network for Detection of DGA Domain Names, *Fangli Ren, Zhengwei Jiang and 498-Jian Liu*	388-Learning Linear Programs from Data, *Elias Arnold Schede, Samuel Kolb and Stefano Teso*	556-GLSE: Global-Local Selective Encoding for Response Generation in Neural Conversation Model, *Hongli Wang and Jiangtao Ren*	561-A Comparative Analysis of Classifiers in the Recognition of Packed Executables, *Ceclia Assis, Rodrigo Miani, Murillo Guimares Carneiro and Kil Park*
503-Solving the Defect in Application of Compact Abating Probability to Convolutional Neural Network Based Open Set Recognition, *Xiangyuan Sun, Xiaoyong Li, Kaijun Ren and Junqiang Song*	411-A Novel Learning Classification Scheme for Brain EEG Patterns, *Spyridon Manganas and Nikolaos Bourbakis*	607-Enhancing Relation Extraction using Syntactic Indicators and Sentential Contexts, *Qiongxing Tao, Xiangfeng Luo and Hao Wang*	563-Cases and Clusters in Reuse Policies for DecisionMaking in Card Games, *Gustavo Bathu Paulus, Joaquim Vinicius Carvalho Assuncao and Luis Alvaro de Lima Silva*
			177 Improving Bandit-Based Recommendations with Spatial Context Reasoning: An Online Evaluation, *Nicolas Gutowski, Olivier Camp, Fabien Chhel, Tassadit Amghar and Patrick Albers*

BREAK

19:30 - 20:00

GALA DINNER & AWARDS

20:00 - 22:00

Main Program

Day 3: Wednesday, November 6, 2019

REGISTRATION
09:00 - 12:00

Keynote Speech: xxx, Matthew Mickelson, MITRE
08:00 - 9:00

Topic Tracks

09:00 - 11:00

NEURAL NETS - 4	MACHINE LEARNING - 4	NLP / NLU - 4	APPLICATIONS - 2
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(96, 169, 271, 310, 534, 555)	**(436, 558, 608, 27, 65)**	**(31, 54, 129, 159, 249, 282)**	**(104, 111, 208, 264, 284, 443)**
96-Exploring numerical calculations with CalcNet, *Ashish Rana and Avleen Malhi*	436-Feature Space Regularization for Person Re-identification with One Sample, *Tian Xu, Jiangli Li, Hao Wu, Huafeng Yang, Xiaoming Gu and Yanqiu Chen*	31-Impact of Argument Type and Concerns in Argumentation with a Chatbot, *Lisa Andreevna Chalaguine, Anthony Hunter, Henry Potts and Fiona Hamilton*	104-An Improved Hybrid Heuristic Algorithm for Pickup and Delivery Problem with Three-dimensional Loading Constraints, *Jiangqing Wu, Ling Zheng, Can Huang, Sifan Cai, Shaorong Feng and Defu Zhang*
169-An IBP-CNN Based Fast Block Partition For Intra Prediction, *Wenpeng Ren, Wenpeng Ren, Jia Su, Chang Sun and Zhiping Shi*	558-Towards Automated Machine Learning: Evaluation and Comparison of AutoML Approaches and Tools, *Anh Truong, Austin Walters, Jeremy Goodsitt, Keegan Hines, Bayan Bruss and Reza Farivar*	54-A Mark Recognition Strategy for Sentiment Analysis of Complex Review Texts, *Binbin Qu and Wenkang Xu*	111-Pre-training of Autoregressive Model for Aircraft Hard Landing Prediction Based on QAR Data, *Yucheng Lu and Tongyu Zhu*
271-5M-Buildings: A Large-Scale High-Resolution Building Dataset with CNN based Detection Analysis, *Zeshan Lu, Tao Xu, Kun Liu, Zhen Liu, Qingjie Liu and Feipeng Zhou*	608-Multi-Task Learning for Relation Extraction, *Kai Zhou, Xiangfeng Luo and Hao Wang*	129-Text Style Transfer Using Partly-Shared Decoder, *Gil Halevi and Kahini Wadhawan*	208-Self-organizing traffic based on dynamic platoon configuration, *Maxime Gueriau and Baudouin Dafflon*
310-A New Effective Neural Variational Model with Mixture-of-Gaussians Prior for Text Clustering, *Miao Li, Hongyin Tang, Beihong Jin and Chengqing Zong*	27-LAMB: A Novel Algorithm of Label Collaboration based Multi-Label Learning, *Yi Zhang, Zhecheng Zhang, Hengyang Lu, Lei Zhang, Chongjun Wang and Junyuan Xie*	159-Multi-Level Attention Network for Aspect-Level Sentiment Classification, *Ma Pan, Liao Weizhi, Yin Yanchao, Zhang Xiaobing and Wang Yu*	264-Adaptive Phone Orientation Method for Continuous Authentication Based on Mobile Motion Sensors, *Shixuan Wang, Jiabin Yuan and Jing Wen*

Day 3: Wednesday, November 6, 2019

Topic Tracks

09:00 - 11:00

NEURAL NETS - 4	MACHINE LEARNING - 4	NLP / NLU - 4	APPLICATIONS - 2
534-Learning Effective Neural Nets for Outcome Prediction from Partially Labelled Log Data, *Francesco Folino, Gianluigi Folino, Massimo Guarascio and Luigi Pontieri*	65-Admissible Generalizations of Examples as Rules, *Philippe Besnard, Thomas Guyet and Vronique Masson*	249-SIC-GAT: A Heterogeneous Information Network Embedding Model with Semantic Importance Centralized Graph Attention Networks, *Meng Cao, Xiying Ma, Kai Zhu, Ming Xu and Chongjun Wang*	284-Flooding-driven Modifications of a Hierarchical and Irregular Navigation Grid Structure for Large Virtual Terrains used in Simulations Systems, *Evaristo Jose Nascimento, Eliakim Zacarias, Daniel Matheus Doebber, Edison Pignaton de Freitas and Luis Alvaro Lima Silva*
555-DASNet: Dynamic Activation Sparsity for Neural Network Efficiency Improvement, *Qing Yang, Jiachen Mao, Zuoguan Wang and Hai Li*	245-Algorithmic Currency Trading based on Reinforcement Learning Combining Action Shaping and Advantage Function Shaping, *Hongyong Sun, Jia Wu, Chen Wang and Nan Sang*	282-Incorporating Domain Knowledge in Learning Word Embedding, *Arpita Roy, Youngja Park and Shimei Pan*	EmbML Tool: supporting the use of supervised learning algorithms in low-cost embedded systems (443) Lucas Silva, Vincius Souza and Gustavo Batista

LUNCH BREAK

11:00 - 13:00

Topic Tracks

13:00 - 15:00

METHODS - TOOLS-4	MACHINE LEARNING - 5	NLP / NLU - 5	APPLICATIONS - 3
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(139, 148, 161, 187, 221, 239)	**(345, 457, 463, 483, 501, 596)**	**(309, 316, 366, 390, 539, 546)**	**(450, 455, 510, 527, 577, 590)**
139-Feature-Selected and -Preserved Sampling for High-Dimensional Stream Data, *Ling Lin, Qian Yu, Wen Ji and Yang Gao*	345-Cost-sensitive learning for imbalanced data streams, *Lucas Loezer, Fabrcio Enembreck, Jean Paul Barddal and Alceu De Souza Britto Jr*	309-Detecting sentences that may be harmful to children with special needs, *Merav Allouch, Amos Azaria and Rina Azoulay*	450-Query-Answering from Traditional Dance Videos: Case Study of Zapin Dances, *Sihem Belabbes, Chi Wee Tan, Tri-Thuc Vo, Yacine Izza, Karim Tabia, Sylvain Lagrue and Salem Benferhat*
148-Hyperparameter tuning using Quantum Genetic Algorithms, *Athanasios Lentzas and Dimitris Vrakas*	457-Sparse High-level Attention Networks for Person Re-Identification, *Sheng Xie, Canlong Zhang, Zhixin Li and Zhiwen Wang*	316-Dynamically Scoring Rhymes with Phonetic Features and Sequence Alignment, *Benjamin Bay, Paul Bodily and Dan Ventura*	455-Neural Network Approximation for Nonlinear Partial Differential Equations with Quasi-Newton Optimization and Piecewise Strategy, *Ying Li and Yu Jin*
161-Fair Kernel Regression via Fair Feature Embedding in Kernel Space, *Austin Okray, Hui Hu and Chao Lan*	463-Optimizing the Parameters for Post-processing Consumer Photos via Machine Learning, *Linlin Bie, Xu Wang and Jari Korhonen*	366-Deep Contextualized Pairwise Semantic Similarity for Arabic Language Questions, *Hesham Al-Bataineh, Wael Farhan, Ahmad Mustafa, Haitham Seelawi and Hussein Al-Natsheh*	510-Fake Account Recognition on Twitter Based on Posting Behavior, *Francisco Vieira Do Carmo Neto, Erick Ritir Oliveira and Rodolfo Carneiro Cavalcante*

Day 3: Wednesday, November 6, 2019

Topic Tracks

13:00 - 15:00

METHODS - TOOLS-4	MACHINE LEARNING - 5	NLP / NLU - 5	APPLICATIONS - 3
187-Bayesian Anytime m-top Exploration, *Pieter Libin, Timothy Verstraeten, Diederik Roijers, Wenjia Wang, Kristof Theys and Ann Now*	483-High-Value Prioritized Experience Replay for Off-policy Reinforcement Learning, *Xi Cao, Huaiyu Wan, Youfang Lin and Sheng Han*	390-Age-Suitability Prediction for Literature Using a Recurrent Neural Network Model, *Eric Brewer and Yiu-Kai Ng*	527-MOPNAR-II: An Improved Multi-Objective Evolutionary Algorithm for Mining Positive and Negative Association Rules, *Tao Zhang, Lianbo Ma and Guang Ming Yang*
221-Optimal Multiple Stopping Rule for Warm-starting Sequential Selection, *Mathilde Fekom, Nicolas Vayatis and Argyris Kalogeratos*	501-An Adaptive Cross-Layer Sampling-Based Node Embedding for Multiplex Networks, *Nianwen Ning, Chenguang Song and Bin Wu*	539-BERT for Stock Market Sentiment Analysis, *Matheus Gomes Sousa, Kenzo Sakiyama, Lucas De Souza Rodrigues, Pedro Henrique Moraes, Eraldo Rezende Fernandes and Edson Takashi Matsubara*	577-Deep Active Imitation Learning in FIFA Free-Kicks Player Platforms based on Raw Image and on Object Detection State Representations, *Matheus Faria, Rita M. S. Julia and Lidia Tomaz*
239-Attribute reduction for partially labeled decision systems based on hypergraph models, *Xiaojun Xie, Xiaolin Qin, Guangmei Huang and Wei Zhao*	596-Some Improvements of Deep Knowledge Tracing, Ange Adrienne Nyamen Tato and Roger Nkambou	546-Quantum-Inspired DMATT-BiGRU for Conversational Sentiment Analysis, *Peng Guo and Yuexian Hou*	590-An Automatic Method for Identifying Huntingtons Disease using Gait Dynamics, *Juliana Paula Flix, Flvio Henrique Teles Vieira, Ricardo Augusto Pereira Franco, Ronaldo Martins da Costa and Rogerio Lopes Salvini*

BREAK

15:00 - 15:15

Topic Tracks

15:15 - 17:15

METHODS - TOOLS-5	DEEP LEARNING - 4	IMAGING - 4	APPLICATIONS - 4
Session Chairs:	Session Chairs:	Session Chairs:	Session Chairs:
(456, 475, 476, 489, 493, 570)	**(55, 68, 183, 186, 212, 573)**	**(46, 133, 567, 575, 587)**	**(353, 391, 415, 542)**
An Expansion Convolution Method Based on Local Region Parameter Sharing (456) *Qimao Yang and Jun Guo*	Optimizing Trainig using Information Theory-Based Curriculum Learning Factory (55) Henok Ghebrechristos and Gita Alaghband	Facial Expression Recognition: Residue Learning Using SVM (46) Fangjun Wang	Rethink Gaussian Denoising Prior for Real-world Image Denoising (353) *Tiangyang Wang, Jun Huan, Bo Li and Kaoning Hu*
Allocation and Sizing of Distributed Generation with Data Mining Code of Repositories - DAMICORE (475) *Alessandro Wilk Silva Almeida, Fernanda Pereira Guidotti, Claudio Fabiano Motta Toledo and Alexandre Delbem*	Design and Research of Composite Web Page Classification Network Based on Deep Learning (68) *Qiuhan Zhao, Wenchuan Yang and Rui Hua*	Enhanced Knowledge Distillation for Face Recognition (133) *Chong Yuan and Jie Shen*	A Siamese-Detection Network for Real-Time Object Tracking (391) *Yang Deng, Ning Xie and Yang Yang*

Day 3: Wednesday, November 6, 2019

Topic Tracks

15:15 - 17:15

METHODS - TOOLS-5	DEEP LEARNING - 4	IMAGING - 4	APPLICATIONS - 4
Automated Mechanism Design: Compact and Decomposition Linear Programming Models (476) *Brigitte Jaumard, Kia Babashahi Ashtiani and Nicolas Huin*	Learning to Drive via Apprenticeship Learning and Deep Reinforcement Learning (183) *Wenhui Huang and Francesco Braghin*	Extending the Aerial Image Analysis from the Detection of Tree Crowns (567) *Gabriel Vieira, Bruno Rocha, Fabrizzio Soares, Junio Cesar Lima, Helio Pedrini and Ronaldo Costa*	3D Convolutional Two-Stream Network for Action Recognition in Videos (415) *Min Li, Yuezhu Qi, Jian Yang, Yanfang Zhang, Junxing Ren and Hong Du*
Hybrid-TE: Hybrid Translation-based Temporal Knowledge Graph Embedding (489) Zhihao Wang and Xin Li	Swarm Filter - A Simple Deep Learning Component Inspired by Swarm Concept (186) *Ha-Thanh Nguyen and Le Minh Nguyen*	X-ray Image Enhancement: A Technique Combination Approach (575) *Afonso Ueslei Fonseca, Fabrizzio Soares, Leandro Luis Galdino De Oliveira, Mariana Ramada, Rogerio Salvini and Deborah Fernandes*	TFPN: Twin Feature Pyramid Networks for Object Detection (542) Liang Yi, Changjian Wang, Fangzhao Li, Yuxing Peng, Qin Lv, Yuan Yuan and Zhen Huang
Proximal Policy Optimization with Mixed Distributed Training (493) *Zhenyu Zhang, Xiangfeng Luo, Shaorong Xie, Jianshu Wang, Wei Wang and Yang Li*	Variational Policy Chaining for Lifelong Reinforcement Learning (212) *Christopher Doyle, Maxime Guriau and Ivana Dusparic*	Accurate and robust RGB-D dense mapping with inertial fusion and deformation-graph optimization (587) *Yong Liu, Liming Bao, Chaofan Zhang, Wen Zhang and Yingwei Xia*	
Learning Fuzzy SPARQL User Preferences (570) *Olfa Slama and Anis Yazidi*	Enhancing Profit by Predicting Stock Prices using Deep Neural Networks (573) *Soheila Abrishami, Michael Turek, Ahana Roy Choudhury and Piyush Kumar*		

CLOSING REMARKS & DISCUSSION

17:15 - 18:00