

2019 IEEE 11th International Workshop on Computational Intelligence and Applications  
(IEEE IWCIA2019)  
Technical Program

		Room 1	Room 2		
Day 1 (Nov. 9)	14:30	Session A-1 Deep Learning-1  Session Chair: Prof. Tomohiro Hayashida	Re-learning of Child Model for Misclassified data by using KL Divergence in AffectNet: A Database for Facial Expression Takumi Ichimura, Shin Kamada  Diversifying experiences in multi agent reinforcement learning Suryanarayanan N.A.V, Hitoshi Iba  Novel Defense Method against Audio Adversarial Example for Speech-to-Text Transcription Neural Networks Keiichi Tamura, Akitada Omagari, Shuichi Hashida	Session B-1 Data Representation & Data Processing  Session Chair: Prof. Daisuke Hirotani	Estimation of Hydrodynamic Coefficients using Unscented Kalman Filter and Recursive Least Square Subchan Subchan, Rachmat Wahyudi Ismail, Tahiyatul Asfihani, Dieky Adzkiya  Improved Binarization Using Morphology-driven Image Resizing and Decomposition Chang-Te Lin, Jung-Hua Wang, Chun-Shun Tseng, Shan-Chun Tsai, Chiao-Wei Lin, Ren-Jie Huang  Online Signature Verification Using a Single-template Strategy with Mean Templates and Local Stability-weighted Dynamic Time Warping Manabu Okawa
	15:45	coffee break			
	16:00	Keynote Talk (IEEE SMC Hiroshima Chapter Invited Special Talk) (ROOM 1) Chair: Akira Hara Acquiring Multiagent Cooperative Behavior in the RoboCup Soccer Simulation Prof. Hidehisa Akiyama (Fukuoka University, Japan)			

		Room 3	Room 2		
Day 2 (Nov. 10)	10:30	Session A-2 Deep Learning-2  Session Chair: Prof. Keiichi Tamura	A Video Recognition Method by using Adaptive Structural Learning of Long Short Term Memory based Deep Belief Network  Shin Kamada, Takumi Ichimura  Multi instance learning via deep CNN for multi-class recognition of Alzheimer's disease  Muthusubash Kavitha, Novanto Yudistira, Takio Kurita  Code Completion for Programming Education based on Recurrent Neural Network  Kenta Terada, Yutaka Watanobe	Session B-2 Evolutionary Computation-1  Session Chair: Prof. Tetsuhiro Miyahara	Multi-objective optimization of allocations and locations of incineration facilities with Voronoi diagram and genetic algorithm Case study of northwest bay area in Chiba prefecture  Taketo Kamikawa, Takashi Hasuike  Improvement of Two-swarm Cooperative Particle Swarm Optimization Using Immune Algorithms and Swarm Clustering  Tomohiro Hayashida, Ichiro Nishizaki, Shinya Sekizaki, Yuki Takamori
	11:45	Lunch			
	13:00	Session A-3 Text Mining & Natural Language Processing  Session Chair: Prof. Jun-ichi Kushida	Construction of a Corpus-Based Metaphor Generation Support System Built on Japanese Literature  Asuka Terai, Taiki Sugyo  On Term Similarity Measures for Short Text Classification  Hirohisa Seki, Shuhei Toriyama	Session B-3 Hardware & Control  Session Chair: Prof. Amir Zjajo	Neurosynaptic Computational Elements for Adaptive Transient Synchrony: Biophysical Accuracy versus Hardware Complexity  Amir Zjajo  Statistical Power Analysis for IoT Device Oriented Encryption with Glitch Cancellor  Shu Takemoto, Yusuke Nozaki, Masaya Yoshikawa
	13:50	coffee break			
	14:10	Session A-4: Deep Learning-3  Session Chair: Prof. Takumi Ichimura	Image-based Kinship Verification using Fusion Convolutional Neural Network  Reza Fuad Rachmadi, I Ketut Eddy Purnama, Supeno Mardi Susiki Nugroho, Yoyon Kusnendar Suprpto  Multi-Channel MHLF: LSTM-FCN using MACD-Histogram with Multi-Channel Input for Time Series Classification  Shuichi Hashida, Keiichi Tamura  Feature extraction and Classification of Learners using Multi-Context Recurrent Neural Networks  Yusuke Tanimoto, Tomohiro Hayashida, Toru Yamamoto, Shin Wakitani, Takuya Kinoshita, Ichiro Nishizaki Shinya Sekizaki	Session B-4: Evolutionary Computation-2  Session Chair: Prof. Shin Kamada	Using Label Information in a Genetic Programming Based Method for Acquiring Block Preserving Outerplanar Graph Patterns with Wildcards  Fumiya Tokuhara, Shiho Okinaga, Tetsuhiro Miyahara, Yusuke Suzuki, Tetsuji Kuboyama, Tomoyuki Uchida  Efficient Constraint Handling Based on The Adaptive Penalty Method with Balancing The Objective Function Value and The Constraint Violation  Takeshi Kawachi, Jun-ichi Kushida, Akira Hara, Tetsuyuki Takahama
	15:25	closing session (Room 3)			