Technical Program (Friday, November 30)

Session 1.1 Artificial Intelligence in Medicine
Time & Location: 14:10-15:40, Nov. 30, L009
Chair: TBA

(1) Using Machine Learning Algorithms in Medication for Cardiac Arrest Early Warning System Construction and Forecasting
Hsiao-Ko Chang, Cheng-Tse Wu, Ji-Han Liu, Jyh-Shing Roger Jang

(2) Adverse Drug Reaction Post Classification with Imbalanced Classification Techniques
Chen-Kai Wang, Hong-Jie Dai, Feng-Duo Wang and Emily Chia-Yu Su

(3) Adaptive Generation of Structured Medical Report using NER regarding Deep Learning
Cheng-Tse Wu, Hsiao-Ko Chang, Ji-Han Liu, Jyh-Shing Roger Jang

(4) Tongue Fissure Visualization with Deep Learning
Wen-Hsien Chang, Hsueh-Ting Chu and Hen-Hong Chang

Session 1.2 Deep Learning Algorithms
Time & Location: 16:00-17:30, Nov. 30, L009
Chair: TBA

(1) Comparison of Loss Functions for Training of Deep Neural Networks in Shogi
Hanhua Zhu and Tomoyuki Kaneko

(2) A Vector Mosquitoes Classification System Based on Edge Computing and Deep Learning
Li-Pang Huang, Ming-Hong Hong, Cyuan Heng Luo, Sachit Mahajan and Ling-Jyh Chen

(3) Application of Deep Reinforcement Learning in Werewolf Game Agents
Tianhe Wang and Tomoyuki Kaneko

(4) Deep Recurrent Q-Network with Truncated History
Oh Hyunwoo, Tomoyuki Kaneko

(5) Multi-label Classification with Feature-aware Cost-sensitive Label Embedding
Hsien-Chun Chiu, Hsuan-Tien Lin
Technical Program (Saturday, December 1)

Session 2.1 Artificial Intelligence Initiatives
Time & Location: 10:20-12:00, Dec. 1, L009
Chair: TBA

(1) Successive human tracking and posture estimation with multiple omnidirectional cameras.
Shunsuke Akama, Akihiro Matsufuji, Eri Sato-Shimokawara, Shoji Yamamoto, Toru Yamaguchi

(2) Development of an Intelligent Dialogue Agent with Smart Devices for Older Adults: A Preliminary Study
Satoshi Yamada, Daisuke Kitakoshi, Akihiro Yamashita, Kentarou Suzuki, Masato Suzuki

(3) A Method of Action Recognition in Ego-Centric Videos by using Object-Hand Relations
Akihiro Matsufuji, Wei-Fen Hsieh, Hao-Ming Hung, Eri Sato-Shimokawara, Toru Yamaguchi, Lieu-Hen Chen

(4) A research on document summarization and presentation system based on feature word extraction from stored information
Kei Matsubayashi, Akihiro Yamashita, Hidetoshi Nonaka and Konno Yohko

(5) Machine Learning based Path Prediction System - Adapting One Model for All Intersections
Kai-Qi Huang, Min-Te Sun

Session 2.2 Human-Intelligent Systems
Time & Location: 14:10-15:40, Dec. 1, L009
Chair: TBA

(1) Passenger Flow Prediction Using Weather Data for Taipei Metro Systems
Lijuan Liu and Rung-Ching Chen

(2) On the Effect of Data Imbalance for Multi-Label Pedestrian Attribute Recognition
Tsaipei Wang, Kai-Chen Shu, Chia-Hao Chang and Yi-Fu Chen

(3) A Fast PM2.5 Forecast Approach Based on Time-Series Data Analysis, Regression and Regularization
Cyuan Heng Luo, Hsuan Yang, Li-Pang Huang, Sachit Mahajan, Ling-Jyh Chen

(4) A YOLO-based Traffic Counting System
Jia-Ping Lin, Min-Te Sun

(5) An Empirical Study of Ladder Network and Multitask Learning on Energy Disaggregation in Taiwan
Fang-Yi Chang, Chun Chen, Shou-De Lin
Session 2.3 Artificial Intelligence Applications
Time & Location: 16:00-17:30, Dec. 1, L009
Chair: TBA

(1) A Proposal for the Global & Collaborative PBL Learning Environment where all Global Members on Different Campuses are “on the same page” throughout the Process of the Project 
Tosh Yamamoto, Anthony Y. H. Liao, Wen-Chi Vivian Wu, Meilun Shih, Ju-Ling Shih and Hui-Chun Chu

(2) Examination of Indicators for Estimating Players’ Strength by using Computer Go 
Yuuto Kosaka, Takeshi Ito

(3) Consideration of Life Rhythm for Hearing-Dog Robots Searching for User 
Shotaro Furuta, Tsuyoshi Nakamura, Yuji Iwahori, Shinji Fukui, Masayoshi Kanoh, Koji Yamada

(4) Privacy-Preserving SRS Data Anonymization by Incorporating Missing Values 
Wen-Yang Lin, Kuang-Yung Hsu and Jhih-Syun Shen

(5) Study on Green Logistics Initiatives Through Text Mining Approach 
Fuyume Sai

Session 2.4 Artificial Intelligence for Games
Time & Location: 16:00-17:30, Dec. 1, L008
Chair: TBA

(1) AlphaZero for a Non-deterministic Game 
Chu-Hsuan Hsueh, I-Chen Wu, Jr-Chang Chen and Tsan-Sheng Hsu

(2) Weighted Majority Voting with a Heterogeneous System in the Game of Shogi 
Shogo Takeuchi

(3) Learning of Evaluation Functions via Self-Play Enhanced by Checkmate Search 
Taichi Nakayashiki and Tomoyuki Kaneko

(4) An Alternative Multitask Training for Evaluation Functions in the Game of Go 
Yusaku Mandai and Tomoyuki Kaneko

(5) Interpreting Neural-Network Players for Game 2048 
Kiminori Matsuzaki and Madoka Teramura
Session 2.5 TAEA: Theory and Applications of Evolutionary Algorithms
Time & Location: 16:00-17:30, Dec. 1, L011
Chair: TBA

(1) A Multiple Objective PSO-based Approach for Data Sanitization
Jerry Chun-Wei Lin, Yuyu Zhang, Chun-Hao Chen, Ming-Tai Wu, Chien-Ming Chen and Tzung-Pei Hong

(2) A Whale Crow Search Algorithm for Data Clustering
Ze-Xue Wu, Ko-Wei Huang, Abba Suganda Girsang

(3) Ant Colony Optimization with Negative Feedback for Solving Constraint Satisfaction Problems
Takuya Masukane, Kazunori Mizuno and Hiroto Shinohara

(4) Development of a Cebuano Parse Tree for a Grammar Correction Tool using Deep Parsing
Jan Mikhail Gaid, Robert Michael Lim, Christian Maderazo

(5) Empirical Analysis of PUCT Algorithm with Evaluation Functions of Different Quality
Kiminori Matsuzaki

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Technical Program (Saturday, December 2)

Session 3.1 Recommender Systems with Machine Learning and AI
Time & Location: 10:20-12:00, Dec. 2, L010
Chair: TBA

(1) Rating Matrix Pre-padding for Video Recommendation
Yang Liu, Guijuan Zhang, Xiaoning Jin, Yaozong Jia

(2) Using AHP to Choose the Best Logistics Distribution Model
Mei Lai, Wu Tsay and Zhen Wang

(3) Replay spoofing detection system for automatic speaker verification using multi-task learning of noise classes
Hyejin Shim, Jeeweon Jung, Heesoo Heo, Sunghyun Yoon, Hajin Yu

(4) Personalized Content-Based Music Retrieval by User-Filtering and Query-Refinement
Ja-Hwung Su, Tzung-Pei Hong, Jyun-Yu Li, Jung-Jui Su

(5) Named Entity Filters for Robust Machine Reading Comprehension
Yu-Yan Peng, Jane Yung-jen Hsu