2021 IEEE 12th International Workshop on Computational Intelligence and Applications
(IEEE IWCIA2021)
Technical Program

		Room A		Room B	
Day 1 (Nov. 6)	13:00	Session A-1 Deep Learning-1 Session Chair: Prof. Tomohiro Hayashida	A Study on Application of Curriculum Learning in Deep Reinforcement Learning -Action Acquisition in Shooting Game AI as Example- Ikumi Kodaka and Fumiaki Saitoh	Session B-1 Data Representation & Data Processing-1 Session Chair: Prof. Tatsuhiro Sakai	Machine Learning for Demand Prediction of Seasonal Second-hand Fashion Items Based on Prior and Fine-tuning Prediction Models Fuyu Saito, Haruka Yamashita, Hokuto Sasaki and Masayuki Goto
			Object Detection for Chest X-ray Image Diagnosis Using Deep Learning with Pseudo Labeling Thanawit Gerdprasert and Shingo Mabu		Shared-Memory Parallelization of FP-growth with Dynamic Load Estimation and Balancing Kentaro Sakurai and Yoshitaka Kameya
			Protection Method based on Multiple Sub-Detectors against Audio Adversarial Examples Keiichi Tamura and Hajime Ito		Time Window Topic Model for Analyzing Customer Browsing Behavior Fumiyo Ito, Gendo Kumoi and Masayuki Goto
	14:15	Break			
	14:35	Keynote Talk (IEEE SMC Hiroshima Chapter Invited Special Talk) (Keynote Talk Room) Chair: Akira Hara Nice data mining! Prof. Ayahiko Niimi (Future University Hakodate, Japan)			
	16:05				

		Room A		Room B	
Day 2 (Nov. 7)	13:00	Session A-2 Deep Learning-2 Session Chair: Prof. Shinya Sekizaki	A Study on New Product Recommendation Using Multi-Label CVAE for Fresh Flowers Aya Kitasato, Gendo Kumoi and Masayuki Goto	Session B-2 Evolutionary Computation-1 Session Chair: Prof. Akira Hara	Consideration on Isolation Strategy for Multi-Objective Quantum-Inspired Evolutionary Algorithm Yoshifumi Moriyama, Ichiro Iimura and Shigeru Nakayama
			Solar Power Prediction Using Iterative Network Pruning Technique for Renewable-based Microgrid Sho Enomoto, Yutaka Sasaki, Naoto Yorino, Yoshifumi Zoka and Samuel Kihembo Mumbere		An Evolutionary Method of Computation for Dynamic Scheduling Problems with Periodic Demand Daisuke Hirotani, Tomohiro Hayashida, Shinya Sekizaki, Ichiro Nishizaki and Ibuki Maeda
	13:50	Break			
	14:10	Session A-3 Deep Learning-3 Session Chair: Prof. Shingo Mabu	Improvement of learning method of multi-agent system by sharing learning data Qi Liu, Tomohiro Hayashida, Ichiro Nishizaki and Shinya Sekizaki	Session B-3 Data Representation & Data Processing-2 Session Chair: Prof. Daisuke Hirotani	Bi-objective Problem of Material-based GreenHouse Gas Emission and Costs by Global Supply Chain Network Disruption across TPP countries during COVID-19 Takaki Nagao, Hiromasa Ijuin, Keisuke Nagasawa and Tetsuo Yamada
			Online Knowledge Distillation via Collaborative Learning with Enhanced Diversity and Gradual Ensemble Qiuyue Li, Motonobu Hattori, Wei Zhang and Zhigang Gao		Modeling of Inventory Routing Problem Considering Road Closures Tomoki Sanada, Aya Ishigaki and Hideki Yaginuma
					An Improved Translation-based Recommendation Considering Last Purchasing Sequence Yashu Li, Yamagiwa Ayako, Tianxiang Yang and Masayuki Goto
	15:25	Break			
	15:45	Session A-4: Evolutionary Computation-2 Session Chair: Prof. Yosuke Kakiuchi	A multi-objective evolutionary algorithm for decision support using infeasible information Shinya Sekizaki, Ichiro Nishizaki and Tomohiro Hayashida	Session B-4: Data Representation & Data Processing-3 Session Chair: Prof. Keiichi Niwa	WordPress and Kanban Use in Software Engineering Education Evaluated by Natural Language Processing and Neural Network Daniel Moritz Marutschke, Jeremy White and Uwe Serdült
			Evolutionary Acquisition of Multiple TTSP Graph Patterns with Wildcards by Clustering TTSP Graphs Yuma Kawasaki, Tetsuhiro Miyahara, Tetsuji Kuboyama, Yusuke Suzuki and Tomoyuki Uchida		Effect of division of roles on learners in online manufacturing education Shingo Umehara, Aya Ishigaki, Seiichi Yasui, Hisamitsu Nishioka and Kentaro Minagawa
	16:35	closing session (Room A)			