

Monday, August 21, 2023

MA1		Fuzzy Systems, Uncertainty Modeling, Fuzzy Probability, and Statistics Chair: Jin Hee Yoon			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MA1-1	67	Fuzzy Multiple Moderation and Moderated-Mediation Analysis	Jin Hee Yoon	Sejong University	Korea
MA1-2	21	Intervals reflecting Inconsistency in Interval Scale Pairwise Comparison Matrix	tomoe entani	university of hyogo	Japna

MA2		Fuzzy Systems: Decision-making, Inference Systems, Preference Modeling, Optimization Chair: Yusuke Nojima			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MA2-1	87	Effects of Complexity Enhancements on the Search Performance of Multiobjective Fuzzy Genetics-based Machine Learning	Yusuke Nojima	Osaka Metropolitan University	Japan
MA2-2	38	Federation Assisted Twin (FAT) Model for Edge Resource Management in Smart City over 6G Networks	In-Ho Ra	Kunsan National University	Korea
MA2-3	55	A non-reciprocal fuzzy preference modeling method based on preference disaggregation for recommendation systems	Zheng Wu	Sichuan university	China
MA2-4	60	Some Notes on Monotone TSK Fuzzy Inference Systems	YI WEN KERK	The National University of Malaysia	Malaysia

MA3		Fuzzy Control Chair: Hugang Han			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MA3-1	26	A Controller based on a Class of Affine T-S Fuzzy Models	Hugang Han	Prefectural University of Hiroshima	Japan
MA3-2	68	Switching Control Approach for Magnetic Levitation System	Seongwoo Kwak	Pukyong National University	Korea
MA3-3	70	AN INTELLIGENT METHOD FOR OPTIMIZING CALCULATIONS OF VISUAL AND AUDIO INFORMATION	Shahnaz Shahbazova	Azerbaijan State university of Economics	Azerbaijan
MA3-4	83	Deep fuzzy hashing network based on CIFAR-10 dataset	Jon-Lark Kim	Sogang University	Korea

MA4		Computational Intelligence in Information Systems Chair: Marek Reformat			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MA4-1	73	Assessing Uncertain Facts Against Fuzzy-based Knowledge Base using Evidence Theory	Marek Reformat	University of Alberta	Canada
MA4-2	2	Preference Rule Extraction with Kansei Retrieval Agent Using Fuzzy Reasoning for Music Retrieval	Hiroshi Takenouchi	Fukuoka Institute of Technology	Japan
MA4-3	42	Comparison of Quality-based and Quantity-based Real-time Rankings of Participants in Human-based Evolutionary Computation Systems	Kei Ohnishi	Kyushu Institute of Technology	Japan
MA4-4	80	Time series analysis for insurance data in R	Hilala Almadan	Azerbaijan State university of Economics	Azerbaijan

MB1		SS01: Robotic and Intelligent Systems-1 Chair: Chun-Fei Hsu			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MB1-1	19	Development of Evolutionary Simultaneous Localization and Mapping for Indoor Mobile Robots	Hsu-Chih Huang	National Ilan University	Taiwan
MB1-2	10	Adaptive Fractional-Order Sliding-Mode Motion Control Using Fuzzy-Neural LSTM-BLS for a Two-Wheeled Deformable Robot	Ching-Chih Tsai	National Chung Hsing University	Taiwan
MB1-3	11	Trajectory Tracking Control Using RFBLs for Uncertain Tilting Quadrotors with Obstacle Avoidance	Ching-Chih Tsai	National Chung Hsing University	Taiwan
MB1-4	16	Command Filter-based Adaptive Prescribed Performance Asymptotic Tracking Control for Flexible-Joint Robots	Le Wang	Liaocheng University	Taiwan

MB2		SS01: Robotic and Intelligent Systems-2 Chair: Hsu-Chih Huang			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MB2-1	5	Decoupled Single-Input Fuzzy Control for a CMG Inverted Pendulum System	Chun-Fei Hsu	Tamkang University	Taiwan
MB2-2	6	Swing-Up and Stabilization Controller Design for a Reaction Wheel Inverted Pendulum System via Self-Learning Fuzzy Control Approach	Chun-Fei Hsu	Tamkang University	Taiwan
MB2-3	8	Design of USV Positioning and Navigation in Unknown District based on DQN	Wangsu Jeon	Kyungnam University	Korea
MB2-4	9	Recurrent Fuzzy Broad Learning Controller for MIMO Nonlinear Digital Time-Delay Dynamic Systems	Ching-Chih Tsai	National Chung Hsing University	Taiwan

MB3		SS02: Intelligent Systems and Fuzzy Modeling-1 Chair: Chen-Chia Chuang			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MB3-1	15	Intelligent Weighbridge Station Systems	Chen-Chia Chuang	National iLan University	Taiwan
MB3-2	14	The automatic process to generate a Takagi-Sugeno fuzzy model controller	Mei-Yung Chen	National Taiwan Normal University	Taiwan
MB3-3	17	Base Stations Deployment with an Iterative Decreasing Candidate Algorithm in Internet of Things Systems	Jau-Yang Chang	National Formosa University	Taiwan
MB3-4	18	Interval Robust Granular Computing with City-block Distance Measure for Symbolic Data Analysis	Jin-Tsong Jeng	National Formosa university	Taiwan

MB4		SS02: Intelligent Systems and Fuzzy Modeling-2 Chair: Chia-Wen Chang			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
MB4-1	24	Design of indoor obstacle avoidance control with monocular visual odometry	Chia-Wen Chang	Ming Chuan University	Taiwan
MB4-2	25	Implementing Extreme Climate Reservoir Inflow Prediction based on Interval Type-2 Fuzzy Logic	Hao-Han Tsao	National Taiwan Normal University	Taiwan
MB4-3	61	Dynamic and Shared Resource Deployment using Graph Attention Technique	In-Ho Ra	Kunsan National University	Korea
MB4-4	63	Enhancing Lung Disease Diagnosis via Semi-Supervised Machine Learning	In-Ho Ra	Kunsan National University	Korea
MB4-5	64	Comparative Analysis of Speech Features in the Aspect of Parkinson's Disease Classification Based on Machine Learning Methods	In-Ho Ra	Kunsan National University	Korea

Late Breaking Poster Session					
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
1	202	Learning Procedure for Local Path Planning of Maritime Autonomous Surface Ships using Inverse Reinforcement Learning	Ho Namgung	Mokpo National Maritime University	Korea
2	203	How to Propagate Interval (and Fuzzy) Uncertainty: Optimism-Pessimism Approach	Vladik Kreinovich	University of Texas at El Paso	USA
3	204	How to Make Decision Under Interval Uncertainty: Description of All Reasonable Partial Orders on the Set of All Intervals	Vladik Kreinovich	University of Texas at El Paso	USA
4	205	Which Fuzzy Implications Operations Are Polynomial? A Theorem Proves That This Can Be Determined by a Finite Set of Inequalities	Vladik Kreinovich	University of Texas at El Paso	USA
5	206	How to Combine Probabilistic and Fuzzy Uncertainty: Theoretical Explanation of Clustering-Related Empirical Result	Vladik Kreinovich	University of Texas at El Paso	USA
6	207	Fuzzy Mathematics under Non-Minimal "And"-Operations (t-Norms): Equivalence leads to Metric, Order Leads to Kinematic Metric, Topology Leads to Area or Volume	Vladik Kreinovich	University of Texas at El Paso	USA
7	208	Software-defined perimeter-based segregated network systems	In-June Shin	Daegu National University	Korea
8	209	Toward a consideration of fuzziness in implicit hand gestures	Dian Christy Silpani	Kyushu Institute of Technology	Japan

Tuesday, August 22, 2023

TA1		Dynamical Modeling and Engineering Applications Chair: Jin Hee Yoon			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TA1-1	66	Analysis of Chaotic Behaviors in Fuzzy Happiness Model with an External Force and Resilience considering Gaussian Noise	Jin Hee Yoon	Sejong University	Korea
TA1-2	62	Fuzzy Based Power Sharing in Parallel Neutral Point Clamped Inverter for Microgrid Applications	In-Ho Ra	Kunsan National University	Korea
TA1-3	65	Takagi-Sugeno Fuzzy modelling of Electric Vehicle Steering System	Hugang Han	Prefectural University of Hiroshima	Japan
TA1-4	40	Mealy-type L-fuzzy multiset automata and its characterization	Mahesh Dubey	Manipal University Jaipur	India

TA2		Data Analysis: Clustering, Associations Mining, Classification-1 Chair: Kwang Baek Kim			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TA2-1	45	Robust Neuro-Fuzzy Inference in Dog Disease Pre-Diagnosis System for Casual Owners	Kwang Baek Kim	Silla University	Korea
TA2-2	43	A Study on Synthetic Data Generation for Fall Detection	Choi Yeonwoo	Dongguk University	Korea
TA2-3	27	Social networks analysis and fuzzy measures: a general approach to improve community detection in directed graphs	Inmaculada Gutiérrez García-Pardo	Universidad Complutense de Madrid	Spain

TA3		Data Analysis: Clustering, Associations Mining, Classification-2 Chair: Uzay Kaymak			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TA3-1	28	Towards Interpreting Topic Models with ChatGPT	Emil Rijcken	Eindhoven University of Technology	Netherlands
TA3-2	37	Revised Optimization Algorithm for Maximum-Margin Nearest Prototype Classifier	Yoshifumi Kusunoki	Osaka Metropolitan University	Japan
TA3-3	51	Evaluation of Bagging-type Ensemble Method Generating Virtual Data	Honoka Irie	Kansai University	Japan
TA3-4	82	Explainable Malware Detection Model through Latent Feature Dynamic Residual Kernel Generation	Mainak Basak	Gachon University	Korea
TA3-5	88	A Study on the Creation of Improved 3D Models and Large-Scale Datasets Using NeRF	Yong-Tae Kim	Hankyong National University	Korea

TA4		Deep learning, Machine learning, and AI-1 Chair: Keon Myung lee			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TA4-1	81	An Image Transformation-based Time Series Prediction Method	Sun Woo Jeong	Chungbuk National University	Korea
TA4-2	44	Basic Application and Methodologies used for Sentiment Analysis: A Systematic Literature Review	Aakanksha Dayal	Inje University	Korea
TA4-3	54	Lymph node metastasis prediction in gastric cancer using clinical feature variables and machine learning	Tagne Poupi Theodore Armand	Inje University	Korea
TA4-4	56	Dexterous Hand-Object Grasp Control With Prosthetic Hand	Jihie Kim	Dongguk University	Korea
TA4-5	91	Non-Contact Material Recognition from Test-bench Using Reflected Sound Waves and Machine Learning	Min-Hyun Kim	MoveAWheel, Inc	Korea

TB1		Fuzzy Theory, Rough Sets, and Formal Concept Analysis etc Chair: Bart Kosko			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TB1-1	86	Searching for Causal Phantom Nodes in Fuzzy Cognitive Maps	Bart Kosko	University of Southern California	USA
TB1-2	84	Fuzzy-guided URL Transformer Network based on Belief Loss for Adaptive Phishing Attack Detection	Sung-Bae Cho	Yonsei University	Korea
TB1-3	57	On quasi-intents in complete fuzzy lattices	Manuel Ojeda-Hernández	Universidad de Málaga	Spain
TB1-4	35	Stratified multi-adjoint normal logic programs	Jesús Medina	Universidad de Cádiz	Spain

TB2		SS03: Interval Uncertainty Chair: Vladik Kreinovich			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TB2-1	31	Natural Color Interpretation of Interval-Valued Fuzzy Degrees	Vladik Kreinovich	University of Texas at El Paso	USA
TB2-2	39	Is Fully Explainable AI Even Possible: Fuzzy-Based Analysis	Vladik Kreinovich	University of Texas at El Paso	USA
TB2-3	69	Logical Inference Inevitably Appears: Fuzzy-Based Explanation	Vladik Kreinovich	University of Texas at El Paso	USA

TB3		SS05: High Performance Knowledge System and Its Application to Intelligent Systems for the Elderly Chair: Jin-Woo Jung			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TB3-1	78	Deep Learning-based Human Activity Recognition using Dilated CNN and LSTM on UCF-50 Video Dataset	Jin-Woo Jung	Dongguk University	Korea
TB3-2	20	Development of a User-friendly Interface for a Smart Home System based on IoT Technology	Chifuyu Matsumoto	Tokyo University of Technology	Japna
TB3-3	49	Developing a Transformer based model for Extracting Relations Between Rare Diseases and Disabilities from Documents	Atif Latif	Dongguk University	Korea
TB3-4	52	CT-Based Airway Segmentation Using a Hybrid Level-set and Growing Seed Technique	Nnubia Pascal	Dongguk University	Korea
TB3-5	79	3D Dataset Generation for Airway Segmentation in Chest CT Imaging Based on Color Analysis and Double Threshold Setting Algorithm	MinSuh Seo	Dongguk University	Korea

TB4		SS06: Maritime Intelligent Systems Chair: Joo-sung Kim			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
TB4-1	74	Development of Ship's Route Planning Method and Risk Assessment in Vessel Traffic Services Areas	Joo-sung Kim	Mokpo National Maritime University	Korea
TB4-2	75	Prediction of Anchor Dragging Risk for Ship at Anchor Using Machine Learning on Imbalanced Data	Shem Onyango	Jeju National University	Korea
TB4-3	94	The method of Semantic Segmentation improvement using RescueNet based PSPNet	Young Sil Lee	Dongseo University	Korea
TB4-4	95	Estimation of floating debris volume in an estuary using U-Net	Dongwoo Kang	KRISO	Korea

Wednesday, August 23, 2023

WA1		Deep learning, Machine learning, and AI-2 Chair: Young-Jae Ryoo			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
WA1-1	48	PERFORMANCE OF DEEPLABV3 WITH DIFFERENT BACKBONES ON SWEET PEPPER DATASET	Young-Jae Ryoo	Mokpo National University	Korea
WA1-2	29	Optimizing Fuzzy Fingerprints from Large Pre-Trained Models using Genetic Algorithms	Rui Ribeiro	IST/INESC-ID	Portugal
WA1-3	50	Cervical Spine Fracture Segmentation Using U-Net	Muhammad Yaseen	Inje University	Korea
WA1-4	58	Prediction of Chronic Kidney Disease Using Machine Learning	Nayem Hosen	Inje University	Korea

WA2		Deep learning, Machine learning, and AI etc Chair: Fernando Gomide			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
WA2-1	36	Level Set Fuzzy Regression and Machine Learning	Fernando Gomide	University of Campinas	Brazil
WA2-2	76	A study of Processing Speed Index Prediction in children with ADHD using Serious Game-Based Machine Learning	Byung-Jae Choi	Daegu University	Korea
WA2-3	89	Survey on Recent Trends of Deep Learning-based Lane Detection Methods	Sung In Cho	Dongguk University	Korea
WA2-4	77	Eigenvalue distribution of large matrices with randomness for principal component analysis	Masaaki Ida	National Institution for Academic Degrees and Quality Enhancement of Higher Education	Japan

WB1		SS04: Forward Looking Decision-making under Uncertainty Chair: Pasi Luukka			
Session ID	Paper ID	Paper Title	Author	Affiliation	Country
WB1-1	3	Fuzzy entropy and similarity based feature selection with relevancy, redundandy and complementarity information	Pasi Luukka	LUT University	Finland
WB1-2	4	Enhancing fuzzy k-nearest neighbor with entropy-weighted Minkowski distance and local means	Mahinda Mailagaha Kumbure	LUT University	Finland
WB1-3	12	On the connection between the generalized dissemblance index and centers of gravity of triangular-type fuzzy numbers	Jan Stoklasa	LUT University	Finland
WB1-4	13	Extracting business-relevance from highly imprecise fuzzy estimates	Mikael Collan	LUT University	Finland
WB1-5	92	Promoting stability using ensemble feature selection with evolutionary and swarm intelligence algorithms	Christoph Lohmann	LUT University	Finland