June 2-7, 2024, Kalamata, Greece

# **Conference Program-DIS 2024**

Sunday, June 2nd					
08:00- 22:00	Session 1: Arrival date				
Monday, June 3rd					
08:00- 09:00	Session 2: Registration: Hotel Elite Conference Center				
09:00- 10:00	Session 3: Opening Talk on Dynamics of Information Systems by Panos M. Pardalos				
10:00- 10:30	Session 4: Coffee Break				
10:30- 12:00	Session 5				
10:30- 11:00	7	Louis Burger and Jan van Vuuren. A framework for the classification and exploration of semi-structured data			
11:00- 11:30	8	Lienke Brown and Stephan Nel. Towards automated algorithm selection for link prediction			
11:30- 12:00	9	Daniel Barrish and Jan van Vuuren. Enhancement of the local outlier factor algorithm for anomaly detection in time series			
14:30- 16:00	Session 6				
14:30- 15:00	32	Radhakrishnan Venkatesan. Privacy and Threat Analysis of the Enterprise Digital System as a Quantum Dynamical Model – AI Deep Learning Approach			
15:00- 15:30	33	Juan Pérez, Paolo Latorre and Héctor López-Ospina. Reducing Turnover Through Employee-Centric Facility Location and Transportation Planning			
15:30- 16:00	37	Xu Chengtao, Luo Aimin-and Chen Tao. An vulnerability evaluation approach for combat system-of-systems			

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16:00- 16:30	Session 7: Coffee break	
16:30- 18:00	Session 8	
16:30- 17:00	11	Georgios Tsaples and Stefano Armenia. Regional Patterns and Dynamics of Rural Entrepreneur-ship: Insights from European Case Studies and NLP Analysis
17:00- 17:30	12	Adam Górski. Extended task graph for real-life optimization problems
17:30- 18:00	13	Sajid Ahmed, Noriaki Yoshiura, Saif Hassan and Adil Khan. Towards better accuracy on imbalance image datasets using image augmentation and Convolutional Neural Networks
Tuesday, June 4th		
09:00- 10:00	Session 9: Plenary Talk: Optimizing Cost-Efficiency in Fraud Analytics through Advanced Learning Models by Tim Verdonck and Bart Baesens	
10:00- 10:30	Session 10: Coffee break	
10:30- 12:00	Session 11	
10:30- 11:00	16	Guglielmo Beretta, Giacomo Chiarot, Antonio Emanuele Cinà and Marcello Pelillo. Computing the Capacity of Discrete Channels Using Vector Flows
11:00- 11:30	18	Guglielmo Beretta, Alessandro Torcinovich and Marcello Pelillo. On Generalized KKT Points of the Motzkin-Straus Program
11:30- 12:00	30	Bui Tien Duc, Trung Phan, Bang Le, Khiem Huynh, Khoa Tran Dang, Trong Nguyen Duong Phu, Loc Van Cao Phu, Ngan Nguyen Thi Kim and Son Ha Xuan. Enhancing Knowledge Management through Blockchain: The Integration of NFTs and IPFS in Distributed Ledgers
14:30- 16:00	Session 12	
14:30- 15:00	20	Ivan Gruber, Miroslav Hlaváč, Petr Neduchal and Marek Hruz. Multi-label Classification and Named Entity Recognition for Historical Documents
15:00- 15:30	22	Abdul-Rahman Mawlood-Yunis and Shizhao Yu. Applying Machine Learning and Optimization Algorithms to Perform Feature Selection

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15:30- 16:00	27	Cassel Robson, Marko Misic, Erika Capper, Mila Cvetanovska, Majid Ghasemi, Fadi Alzhouri and Dariush Ebrahimi. Navigating Fixed-Income Markets: Unveiling Strategies for Efficient Multi-Venue Order Routing		
16:00- 16:30	Session 13: Coffee break			
16:30- 18:00	Session 14			
16:30- 17:00	35	Karen Roberts-Licklider and Theodore Trafalis. Fairness in Machine Learning: A Survey Part 1		
17:00- 17:30	36	Karen Roberts-Licklider and Theodore Trafalis. Fairness in Optimization and ML: A Survey Part 2		
17:30- 18:00	21	Lauri Vasankari and Kai Virtanen. Aggregation of actor-critic value functions for supporting military decision making		
Wednesday, June 5th				
09:00- 10:00	Session 15: Plenary Talk: Gaining T(h)rust with AI by Bart Baesens			
10:00- 10:30	Session 16: Coffee break			
10:30- 11:30	Session 17			
10:30- 11:00	10	Maryam Badrizadeh. Evaluating Pension Funds' Performance and Low Minimum Efficiency Scores		
11:00- 11:30	31	Eva Lee. Establishing a drug-dose drug-effect prediction for effective treatment of diabetes		
12:00- 15:30	Session 18: excursion			
20:00- 22:00	Session 19: Conference dinner			

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Thursday, June 6th				
09:00- 10:00	Session 20			
09:00- 09:30	14	Rui Carvalho da Costa, Luís A.C. Roque, Luís Tiago Paiva, Manuel C.R.M. Fernandes, Dalila B.M.M. Fontes and Fernando A.C.C. Fontes. Airborne Wind Energy Farms: Layout Optimization combining NSGA-II and BRKGA		
09:30- 10:00	15	Afsane Amiri, Hossein Zolfagharinia and Saman Hassanzadeh Amin. A Robust Routing Problem for Heavy-Duty Electric Trucks in the Face of Energy Uncertainty		
10:00- 10:30	Session 21: Coffee break			
10:30- 12:00	Session 22			
10:30- 11:00	4	Andreas Georgiou, Eleni-Maria Vretta, Konstantinos Kaparis, Kyriakos Bitsis, George Paltayian and Fenia Mavrodi. Assessment of Efficiency and Goal Establishment within a Bi-level Data Envelopment Analysis (DEA) Framework under Stochastic Circumstances		
11:00- 11:30	34	Aimin Luo, Chengtao Xu, Mengfan Kong and Chonghao Chen. Dynamic Construction of Power Grid Systems of Systems Based on Resource Packet		
11:30- 12:00	28	Sevgi Abdalla and Burcu Eğilmez. An integrated single-valued neutrosophic group decision-making approach of the Kano model and MULTIMOORA in QFD for uncertain evaluations in supplier selection		
14:30- 16:00	Session 23			
14:30- 15:00	3	Angelo Lucia and Korkut Uygun. Markov Chain Monte Carlo Modeling of Metabolic Networks with Tight Regulation		
15:00- 15:30	6	Anton Bondarev. Optimization in hybrid controlled systems with piecewise- smooth systems' dynamics.		
15:30- 16:00	19	Pedram Farghadani-Chaharsooghi, Hossein Hashemi Doulabi, Walter Rei and Michel Gendreau. A Stochastic Programming Approach for Casualty Response Planning with Operational Details		
16:00- 16:30	Session 24: Coffee break			

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16:30- 18:00	Session 25A		
16:30- 17:00	5	Kimmo Nurmi, Reshma Chandrasekharan, Jari Kyngäs and Nico Kyngäs. A Study on the Hardness of the Shift Minimization Personnel Task Scheduling Problem	
17:00- 17:30	26	Ahmad Almajed and Mujahid N. Syed. Mathematical Modeling for Crude Oil Export Terminal Scheduling and Tank-Farm Operations	
17:30- 18:00	2	Rezah Rowe, Vipin Balyan and Gunjan Gupta. TestBed for LoRa Communication Architecture on Nanosatellite Constellations	
16:30- 18:30	Session 25B		
16:30- 17:00	1	Krishna Naduvathra Revi and Pinaki Ranjan Brahma. Dynamic Modeling of Brand Loyalty in Retail: A Semi-Supervised Approach Incorporating Temporal Effects and Purchase Behavior Sequences	
17:00- 17:30	23	Mahdieh Yazdani and Maziar Raissi. Real Estate Property Valuation using Self-Supervised Vision Transformers	
17:30- 18:00	24	Mahdieh Yazdani. Machine Learning, Deep Learning, and Hedonic Methods for Real Estate Price Prediction	
18:00- 18:30	29	Hossein Moosaei. Intelligent Feature Selection: Enhancing Classification Efficiency	
Friday, June 7th			
09:00- 11:00	<u>Ses</u>	sion 26: Collaborative Research Discussion and Initiatives	