

## Conference Program-DIS 2024

Sunday, June 2nd		
08:00-22:00	<u>Session 1</u> : Arrival date	
Monday, June 3rd		
08:00-09:00	Session 2: Registration: Hotel Elite Conference Center	
09:00-10:00	Session 3: <b>Opening Talk on Dynamics of Information Systems by Panos M. Pardalos</b>	
10:00-10:30	<u>Session 4</u> : Coffee Break	
10:30-12:00	<u>Session 5</u>	
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	<u>Session 6</u>	
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	<u>Session 7</u> : Coffee break	
16:30-18:00	<u>Session 8</u>	
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
<b>Tuesday, June 4th</b>		
09:00-10:00	<u>Session 9</u> : <b>Plenary Talk: Gaining T(h)rust with AI by Bart Baesens</b>	
10:00-10:30	<u>Session 10</u> : Coffee break	
10:30-12:00	<u>Session 11</u>	
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	<u>Session 12</u>	
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	<u>Session 13</u> : Coffee break	
16:30-18:00	<u>Session 14</u>	
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
<b>Wednesday, June 5th</b>		
09:00-10:00	<u>Session 15</u> : <b>Plenary Talk: Optimizing Cost-Efficiency in Fraud Analytics through Advanced Learning Models by Tim Verdonck and Bart Baesens</b>	
10:00-10:30	<u>Session 16</u> : Coffee break	
10:30-11:30	<u>Session 17</u>	
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	<u>Session 18</u> : excursion	
20:00-22:00	<u>Session 19</u> : Conference dinner	

**Thursday, June 6th**

09:00-10:00	<u>Session 20</u>	
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	<u>Session 21</u> : Coffee break	
10:30-12:00	<u>Session 22</u>	
10:30-11:00	4	Andreas Georgiou, Eleni-Maria Vretta, Konstantinos Kaparis, Kyriakos Bitsis, George Paltayan 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 Eğılmez. 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	<u>Session 23</u>	
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	<u>Session 24</u> : Coffee break	

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16:30-18:00	<u>Session 25A</u>	
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	<u>Session 25B</u>	
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
<b>Friday, June 7th</b>		
09:00-11:00	<u>Session 26</u> : Collaborative Research Discussion and Initiatives	