

October 9		October 10		October 11		
8:30-9:00	Registration	Graph Theory and Network Analysis - I Session Chair: Saso Dzeroski	09:00	Yiping Tang, Kohei Hatano and Eiji Takimoto. "Boosting-based Construction of BDDs for Linear Threshold Functions and Its Application to Verification of Neural Networks"	9:00 - 10:00 "Lifelong Anomaly Detection" Keynote Speaker: Nathalie Japkowicz	
9:00-9:10	Opening Session		09:20	Riccardo Guidotti, Cristiano Landi, Andrea Beretta, Daniele Fadda and Mirco Nanni. "Interpretable Data Partitioning through Tree-based Clustering Methods"		
"Computational Creativity: from autonomous generation to co-creation" Keynote Speaker: Amilcar Cardoso			09:40	Chamalee Wickrama Arachchi and Nikolaj Tatti. "Jaccard-constrained dense subgraph discovery"		
10:00 - 10:30		Coffee Break				
Best Student Paper Award	10:30	Jean-Gabriel Gaudreault and Paula Branco. "Toward Streamlining the Evaluation of Novelty Detection in Data Streams"	Graph Theory and Network Analysis - II Session Chair: Giuseppina Andresini	10:30	Rafael Mamede, Nuno Paiva and João Gama. "Error Analysis on Industry Data: Using Weak Segment Detection for Local Model Agnostic Prediction Intervals" (S)	
Natural Language Processing and Social Media Analysis Session Chair: Michelangelo Ceci	10:50	Takayasu Fushimi and Kazuki Sakamoto. "Audience Prediction for Game Streaming Channels Based on Vectorization of User Comments"	10:50	Julien Cassagne, Ettore Merlo, Paula Branco, Guy-Vincent Jourdan and Iosif-Viorel Onut. "Unsupervised Graph Neural Networks for Source Code Similarity Detection"	10:45	Paul K. Mvula, Paula Branco, Guy-Vincent Jourdan and Herna L. Viktor. "HEART: Heterogeneous Log Anomaly Detection using Robust Transformers" (S)
	11:10	Margherita Gambini, Caterina Senette, Tiziano Fagni and Maurizio Tesconi. "From Tweets to Stance: An Unsupervised Framework for User Stance Detection on Twitter"	11:10	John Pavlopoulos, Maria Konstantinidou, Georgios Vardakas, Isabelle Marthot-Santaniello, Elpida Perdiki, Dimitris Koutsianos, Aristidis Likas and Holger Essler. "Explaining the Chronological Attribution of Greek Papryi Images"	11:00	Rafael Teixeira, Mário Antunes, Rúben Sobral, João Martins, Diogo Gomes and Rui L. Aguiar. "Exploring the Intricacies of Neural Network Optimization" (S)
	11:30	Riccardo Cantini, Cristian Cosentino, Irene Kilanioti, Fabrizio Marozzo and Domenico Talia. "Unmasking COVID-19 False Information on Twitter: a Topic-based Approach with BERT"	11:30	Konstantina Liagkou, John Pavlopoulos and Ewa Machotka. "Leveraging the Spatiotemporal Analysis of Meisho-e Landscapes"	11:15	Florian Kalinke, Edouard Fouché, Haiko Thiesen and Klemens Böhm. "Multi-Kernel Time Series Outlier Detection"
	11:50	Hélder Dias, Artur Guimarães, Bruno Martins and Mathieu Roche. "Unsupervised Key-Phrase Extraction from Long Texts with Multilingual Sentence Transformers"	11:50	Eri Kuroda and Ichiro Kobayasi. "Predictive Inference Model of the Physical Environment that emulates Predictive Coding"	11:35	Giuseppina Andresini, Annalisa Appice, Roberto Gasbarro and Donato Malerba. "GLORIA: A Graph Convolutional Network-based Approach for Review Spam Detection"
	12:10	Mattia Poggioni, Francesco Spinnato and Riccardo Guidotti. "Text to Time Series Representations: Towards Interpretable Predictive Models" (S)	12:10	Thiago Andrade and João Gama. "Which Way to Go - Finding Frequent Trajectories Through Clustering"	11:55	Maik Büttner, Christian Beyer and Myra Spiliopoulou. "Joining Imputation and Active Feature Acquisition for Cost Saving on Data Streams with Missing Features"
12:30 - 14:00		Lunch		12:15		
Interpretability and Explainability in AI Session Chair: Riccardo Guidotti	14:00	Fabrizio Angiulli, Fabio Fassetti, Simona Nisticò and Luigi Palopoli. "Counterfactuals Explanations for Outliers via Subspaces Density Contrastive Loss"	14:00 - 15:00		Anomaly, Outliers, and Novelty Session Chair: Bruno Veloso	
	14:20	Massimiliano Altieri, Michelangelo Ceci and Roberto Corizzo. "Explainable Spatio-Temporal Graph Modeling"	"Addressing time in machine learning applications"			
	14:40	Jonas Hanselle, Eyke Hüllermeier and Johannes Fürnkranz. "Probabilistic Scoring Lists for Interpretable Machine Learning"	Keynote Speaker: Mihaela van der Schaar			
	15:00	Pavlin G. Poližar and Blaz Zupan. "Refining Temporal Visualizations Using the Directional Coherence Loss"	15:00	Albrecht Zimmermann. "Chance and the predictive limit in basketball (both college and professional)"		
	15:20	Luca Corbucci, Anna Monreale, Cecilia Panigutti, Michela Natilli, Simona Smiraglio and Dino Pedreschi. "Semantic enrichment of explanations of AI models for healthcare"	15:20	Isabel Coutinho and Bruno Martins. "Exploring Label Correlations for Quantification of ICD Codes"		
15:40	Chetraj Pandey, Rafal A. Angryk, Manolis K. Georgoulis and Berkay Aydin. "Explainable Deep Learning-based Solar Flare Prediction with post hoc Attention for Operational Forecasting" (S)	15:40	Alexander H. Gower, Konstantin Korovin, Daniel Brunnsäker, Ievgenia A. Tiukova and Ross D. King. "LGEM+: a first-order logic framework for automated improvement of metabolic network models through abduction"			
16:00 - 16:30		Coffee Break				
Time Series and Forecasting Session Chair: Gustavo Batista	16:30	Yuta Sumiya, Ryusei Numata and Satoshi Takahashi. "Pseudo session-based recommendation with hierarchical embedding and session attributes" (S)	Healthcare and Biological Data Analysis - I Session Chair: Ross King	16:30	Jaka Kokošar, Martin Špendl and Blaz Zupan. "Gene Interactions in Survival Data Analysis: A Data-driven Approach Using Restricted Mean Survival Time and Literature Mining"	
Fairness, Privacy, and Security in AI Session Chair: Hadi Fanaee-T	16:45	Dennis Slepov, Arunas Kalinauskas and Hadi Fanaee-T. "A Universal Approach for Post-Correcting Time Series Forecasts: Reducing Long-term Errors in Multistep Scenarios" (S)	Healthcare and Biological Data Analysis - II Session Chair: Albrecht Zimmermann	16:50	Athos Moraes, Marta Moreno, Rogério Ribeiro and Pedro G. Ferreira. "Predicting age from human lung tissue through multi-modal data integration" (S)	
	17:00	Francesca Naretto, Roberto Pellungri, Salvatore Rinzivillo and Daniele Fadda. "EXPHLOT: EXplainable Privacy assessment for Human LOfcation Trajectories"	Machine Learning Methods and Applications Session Chair: Paula Branco	17:05	Adriane B. S. Serapião, Zahra Donyavi and Gustavo Batista. "Ensembles of classifiers and quantifiers with data fusion for Quantification Learning"	
	17:20	Joe Germino, Nuno Moniz and Nitesh V. Chawla. "Fairness-aware Mixture of Experts with Interpretability Budgets"		17:25	Fernando Freitas, Pavel Brazdil and Carlos Soares. "Exploring the Reduction of Configuration Spaces of Workflows"	
	17:40	Federico Mazzoni, Marta Marchiori Manerba, Martina Cinquni, Riccardo Guidotti and Salvatore Ruggieri. "GenFair: A Genetic Fairness-Enhancing Data Generation Framework"		17:45	Yann Claes, Vân Anh Huynh-Thu and Pierre Geurts. "Knowledge-Guided Additive Modeling For Supervised Regression"	
	18:00	Lukas-Malte Bammert, Stefan Kramer, Mattia Cerrato and Ernst Althaus. "Privacy-Preserving Learning of Random Forests Without Revealing the Trees"		18:05	Mário Mallea, Ricardo Nanculef and Mauricio Araya. "Enhancing intra-modal similarity in a cross-modal triplet loss."	
18:20	Misgina Tsighe Hagos, Kathleen M. Curran and Brian Mac Namee. "Unlearning Spurious Correlations in Chest X-ray Classification"	18:25		Christoph Sandrock, Marek Herde, Daniel Kottke and Bernhard Sick. "Exploring the Potential of Optimal Active Learning via a Non-myopic Oracle Policy"		
Conference Dinner				18:45	Aljaž Osojnik, Pance Panov and Saso Dzeroski. "ISOU-P-SymRF: Symbolic feature ranking with random forests in online multi-target regression" (S)	
				19:05 Steering Committee Meeting		
				End!		