Program

Sunday, 27 February

17:00 - 18:30	Registration in guest house 4, library
18:30	Meeting for joint walk to the restaurant (meeting point: in front of the main building, pond)
19:00 - 20:00	Welcome dinner at the restaurant 'Il Grottino da Salvatore', Reckestraße 5, 01187 Dresden

Monday, 28 February

09:15 - 09:30	**Jan-Michael Rost (director of the MPIPKS) & scientific coordinators** Opening
09:30 - 10:30	**Christoph Bandt** (University of Greifswald) orpatt22 opening talk: Statistics and modelling of order patterns in univariate time series (on-site)
10:30 - 11:00	Coffee break
11:00 - 11:30	**Milan Palus** (Czech Academy of Sciences) Ordinal patterns in causality detection (virtual)
11:30 - 12:00	**Aditi Kathpalia** (Czech Academy of Sciences) Ordinal Patterns for Compression-Complexity based Causality Detection (virtual)
12:00 - 12:30	**Miguel Cornelles Soriano** (University of Balearic Islands) Time-Delay Identification Using Ordinal Quantifiers (virtual)
12:30 - 13:30	Lunch break
13:30 - 14:30	Informal discussions
14:30 - 15:00	**Claudio Delrieux** (Universidad Nacional del Sur) Ordinal Patterns in Eye Tracking Signals (virtual)
15:00 - 15:30	**Walter Legnani** (National Technological University – Buenos Aires Regional Faculty) Proposal of a Data Set for Classification ECG Signals (virtual)

15:30 - 16:00	**Haroldo V. Ribeiro** (State University of Maringá) Characterizing images with ordinal methods (virtual)
16:00 - 16:30	Coffee break
	chair orpatt22 colloquium: Matthew Eiles (MPIPKS)
16:30 - 17:30	**orpatt22 colloquium: Jürgen Kurths** (Potsdam Institute for Climate Impact Research) Climate Meets Complex Systems: Exploring Predictability of Extreme Climate Events via a Complex Network Approach (on-site)
17:30 - 18:00	Discussion on colloquium's talk
18:00 - 18:30	Informal discussions
18:30 - 19:30	Dinner at the PKS cafeteria
19:30 - 20:00	Informal discussions

Tuesday, 01 March

09:00 - 09:30	**Alejandro Frery** (Victoria University of Wellington) A Test for White Noise in the Entropy-Complexity Plane (virtual)
09:30 - 10:00	**Hiroshi Gotoda** (Tokyo University of Science) Ordinal pattern-based analysis of spatiotemporal dynamics in flame and combustion instabilities (virtual)
10:00 - 10:30	**Piergiulio Tempesta** (Complutense University of Madrid) A unified approach to the ordinal analysis of deterministic and random processes I: complexity classes and group entropies (virtual)
10:30 - 11:00	Coffee break
11:00 - 11:30	**Ulrich Parlitz** (Max Planck Institute for Dynamics and Self-Organization) Characterizing multivariate time series in live sciences using ordinal patterns (on-site)
11:30 - 12:00	**Reik Donner** (Hochschule Magdeburg-Stendal) Causal inference from multivariate time series using transition network representations based on ordinal patterns, graphlets and event synchrony (on-site)
12:00 - 12:30	**Inga Kottlarz** (Max Planck Institute for Dynamics and Self-Organization) Ordinal Patterns as Robust Biomarkers in Multichannel EEG Time Series (on-site)
12:30 - 13:30	Lunch break

13:30 - 14:30	Informal discussions
14:30 - 15:00	**Luciano Zunino** (National Scientific and Technical Research Council, Buenos Aires) A versatile ordinal distance for time series analysis (virtual)
15:00 - 15:30	**Fernando Montani** (Universidad Nacional de La Plata) Rhythms pattern activity and collective oscillations in neural structures: exploring the role of the different frequency bands (virtual)
15:30 - 16:00	**Helena Bordini de Lucas** (Federal University of Alagoas) A symbolic information approach to characterize response-related differences in cortical activity during a Go/No-Go task (virtual)
16:00 - 16:30	Coffee break
16:30 - 17:00	**Massimiliano Zanin** (Instituto de Física Interdisciplinar y Sistemas Complejos IFISC) Analysing gait through ordinal patterns (on-site)
17:00 - 17:30	**Johann Martínez** (Spanish National Research Council) Football & brain as simple examples of OrdPatt versatility (on-site)
17:30 - 18:30	Discussion session on 'Ordinal Patterns and Machine Learning'

18:30 - 19:30	Dinner at the PKS cafeteria
19:30 - 20:00	Informal discussions

Wednesday, 02 March

09:00 - 09:30	**Beata Graff** (Medical University of Gdansk) Challenges in cardiorespiratory regulation assessment (virtual)
09:30 - 10:00	**Grzegorz Graff** (Gdansk University of Technology) Ordinal patterns in the assessment of information transfer between blood pressure and heart rate (virtual)
10:00 - 10:30	**»talk was canceled: Evgeniy Petrov«** (National Academy of Sciences of Ukraine) Ordinal spaces (virtual)
10:30 - 11:00	Coffee break
11:00 - 11:30	**Cristina Masoller** (Universitat Politècnica De Catalunya) Neural coding of weak signals in noisy environments using ordinal spike patterns (on-site)
11:30 - 12:00	**Christian Weiss** (Helmut Schmidt University Hamburg) Measuring Dispersion and Serial Dependence in Ordinal Time Series based on the Cumulative Paired phi-Entropy (on-site)
12:00 - 12:30	**Annika Betken** (University of Twente) Rank-based change-point analysis for long-range dependent time series (on-site)
12:30 - 13:30	Lunch break
13:30 - 14:30	Informal discussions

14:30 - 15:00	**Klaus Lehnertz** (University Hospital Bonn) Ordinal methods for a characterization of evolving functional brain networks (virtual)
15:00 - 15:30	**Holger Lange** (The Norwegian Institute of Bioeconomy Research) Ordinal pattern analysis in environmental sciences (virtual)
15:30 - 16:00	**María Muñoz-Guillermo** (Polytechnic University of Cartagena) Time series and forecasting: an approach using ordinal patterns (virtual)
16:00 - 16:30	Coffee break
16:30	Departure for downtown Dresden (meeting point: in front of the institute's main building/pond)
17:00 - 19:00	Guided walking tour of Neustadt and Altstadt of Dresden
19:00 - 21:00	Workshop dinner at the restaurant 'Freiberger Schankhaus', Neumarkt 8, 01067 Dresden

Thursday, 03 March

09:30 - 10:00	**Michael Small** (University of Western Australia) Ordinal networks - dynamics and entropy (virtual)
10:00 - 10:30	**Aurelio F. Bariviera** (Universitat Rovira i Virgili) Cryptocurrency market analysis using information theory quantifiers (virtual)
10:30 - 11:00	Coffee break
11:00 - 11:30	**Inmaculada Leyva** (Universidad Rey Juan Carlos Madrid) How complex is to be a hub? Dynamical complexity and the structure of complex networks (on-site)
11:30 - 12:00	**Dimitris Kugiumtzis** (Aristotle University of Thessaloniki) Connectivity estimation of symbols sequences using Discrete Partial Mutual Information from Mixed Embedding (on-site)
12:00 - 12:30	**José Maria Amigó** (Miguel Hernandez University) A unified approach to the ordinal analysis of deterministic and random processes II: complexity-based permutation entropies (on-site)
12:30 - 12:35	Group photo in Zoom
12:35 - 13:30	Lunch break
13:30 - 14:30	Informal discussions
14:30 - 15:00	**Jean Sire Armand Eyebe Fouda** (University of Yaoundé I)

	Applicability of ordinal pattern entropies to ECG beat classification (virtual)
15:00 - 15:30	**Diego Mateos** (Consejo Nacional de Investigaciones Científicas y Técnicas) Complexity of brain dynamics as a correlate of consciousness in anaesthetized monkeys (virtual)
15:30 - 16:00	**Fernanda Matias** (Universidade Federal de Alagoas) Statistical complexity is maximized close to criticality in cortical dynamics (virtual)
16:00 - 16:30	Coffee break
16:30 - 17:00	**Alexander Schnurr** (University of Siegen) Ordinal patterns and ordinal pattern dependence from a statistical point-of-view (virtual)
17:00 - 17:30	**Marisa Mohr** (University of Luebeck) A Review of Multivariate Ordinal Pattern Representations (virtual)
17:30 - 18:30	Discussion session on 'Statistical Aspects of Ordinal Pattern Distributions'
18:30 - 19:30	Dinner at the PKS cafeteria
19:30 - 20:00	Informal discussions

Friday, 04 March

09:00 - 09:30	**Yoshito Hirata** (University of Tsukuba) Ordinal patterns for characterizing nonlinear stochastic systems (virtual)
09:30 - 10:00	**Taichi Haruna** (Tokyo Woman's Christian University) Partially Ordered Permutation Complexity (virtual)
10:00 - 10:30	**Yong Zou** (East China Normal University) Ordinal pattern transition networks for multivariate time series analysis (virtual)
10:30 - 11:00	Coffee break
11:00 - 11:30	**Karsten Keller** (University of Luebeck) Ordinal pattern based analysis: Quantification of roughness and asymmetry (on-site)
11:30 - 12:00	**Osvaldo A. Rosso** (Universidade Federal de Alagoas) The causal entropy-complexity plane (on-site)
12:00 - 12:30	Closing
12:30 - 13:30	Lunch break
13:30	Informal discussions & departure