

<b>WEDNESDAY, September 14th</b>			
8:00-8:30	<b>Registration</b>		
8:30-9:00	<b>Opening Session</b>		
9:00-10:00	<b>Keynote Speaker Talk 1:</b> Chair: Alfonso Gordaliza <ul style="list-style-type: none"> <li>• <u>Francisco Herrera</u>: Deepening Smart Data: Quality data to enhancing Artificial Intelligence</li> </ul>		
10:00-11:00	<b>Invited session "Dependence modeling and copulas 1"</b> Organizers: Wolfgang Trutschnig and Fabrizio Durante Chair: Sebastian Fuchs <ul style="list-style-type: none"> <li>• Steven De Keyser and <u>Irene Gijbels</u>: copula-based divergence measures for dependence between random vectors</li> <li>• <u>Nicolas Dietrich</u>, Juan Fernandez-Sanchez and Wolfgang Trutschnig: Convergence of copulas revisited: Different notions of convergence and their interrelations</li> <li>• <u>Patricia Ortega-Jimenez</u>, Franco Pellerey, Miguel A. Sordo and Alfonso Suarez-Llorens: A minimizing problem of distances between random variables with proportional reversed hazard rate functions</li> </ul>		
11:00-11:30	<b>Coffee break</b>		
11:30-12:30	<b>Invited session "Robust methods for the analysis of complex data"</b> Organizer and chair: Marco Riani: <ul style="list-style-type: none"> <li>• <u>Aldo Corbellini</u>, Luigi Grossi and Fabrizio Laurini: Robust diagnostics for Linear Mixed Models with the forward search</li> <li>• <u>Paula Gordaliza</u> and Hristo Inouzhe: Making data fair through optimal trimmed matching</li> <li>• Luis Angel Garcia Escudero, Agustín Mayo-Iscar, Gianluca Morelli and <u>Marco Riani</u>: Advances in robust constrained model based clustering</li> </ul>		
12:30-13:30	<b>Invited session "Random sets and fuzzy random variables"</b> . Organizer and chair: Pedro Terán <ul style="list-style-type: none"> <li>• <u>Miriam Alonso de la Fuente</u> and Pedro Terán: On convergence in distribution of fuzzy random variables</li> <li>• <u>Jinping Zhang</u> and Kouji Yano: Remarks on martingale representation theorem for set-valued martingales</li> <li>• <u>Pedro Terán</u>: Measurability and products of random sets</li> </ul>		
13:30-15:00	<b>Lunch</b>		
15:00-17:00	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Parallel session 1: (Sala Cardenal Mendoza)</b> Chair: Przemyslaw Grzegorzewski <ul style="list-style-type: none"> <li>• <u>Serafín Moral García</u> and Sebastien Destercke: Partial Calibrated Multi-label ranking</li> <li>• Maria Brigida Ferraro, Elena Fernández Iglesias, <u>Ana Belén Ramos-Guajardo</u> and Gil González Rodríguez: On clustering of star-shaped sets with a fuzzy approach: an application to the clasts in the Cantabrian Coast</li> <li>• <u>Tom Davot</u>, Sébastien Destercke and David Savourey:</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <b>Parallel session 2: (Sala Calixto Villaverde)</b> Chair: Yolanda Larriba <ul style="list-style-type: none"> <li>• <u>Olgierd Hryniewicz</u> and Katarzyna Kaczmarek-Majer: Monitoring of Possibilistically Aggregated Complex Time Series</li> <li>• <u>Kamil Kmita</u>, Katarzyna Kaczmarek-Majer and Olgierd Hryniewicz: Learning control limits for monitoring of multiple processes with neural network</li> <li>• <u>Valentin Todorov</u>, Violetta Simonacci, Michele Gallo and Nikolay Trendafilov:</li> </ul> </td> </tr> </table>	<b>Parallel session 1: (Sala Cardenal Mendoza)</b> Chair: Przemyslaw Grzegorzewski <ul style="list-style-type: none"> <li>• <u>Serafín Moral García</u> and Sebastien Destercke: Partial Calibrated Multi-label ranking</li> <li>• Maria Brigida Ferraro, Elena Fernández Iglesias, <u>Ana Belén Ramos-Guajardo</u> and Gil González Rodríguez: On clustering of star-shaped sets with a fuzzy approach: an application to the clasts in the Cantabrian Coast</li> <li>• <u>Tom Davot</u>, Sébastien Destercke and David Savourey:</li> </ul>	<b>Parallel session 2: (Sala Calixto Villaverde)</b> Chair: Yolanda Larriba <ul style="list-style-type: none"> <li>• <u>Olgierd Hryniewicz</u> and Katarzyna Kaczmarek-Majer: Monitoring of Possibilistically Aggregated Complex Time Series</li> <li>• <u>Kamil Kmita</u>, Katarzyna Kaczmarek-Majer and Olgierd Hryniewicz: Learning control limits for monitoring of multiple processes with neural network</li> <li>• <u>Valentin Todorov</u>, Violetta Simonacci, Michele Gallo and Nikolay Trendafilov:</li> </ul>
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	<p>K-partitioning with imprecise probabilistic edges</p> <ul style="list-style-type: none"> <li>• <u>Maria Brigida Ferraro</u>, Paolo Giordani and Maurizio Vichi: Cluster validity measures for fuzzy two-mode clustering</li> <li>• M. Asunción Lubiano, <u>José García-García</u>, Antonio L. García-Izquierdo and Ana M. Castaño: The extended version of Cohen's d index for interval-valued data</li> <li>• <u>Przemyslaw Grzegorzewski</u>: Paired Sample Test for Fuzzy Data</li> </ul>	<p>Fast CP model fitting with integrated ASD-ALS procedure</p> <ul style="list-style-type: none"> <li>• <u>Louisa Kontoghiorghes</u> and Ana Colubi: Testing the homogeneity of topic distribution between documents of a corpus</li> <li>• <u>Haifei Zhang</u>, Benjamin Quost and Marie-Hélène Masson: Explaining Cautious Random Forests via Counterfactuals</li> <li>• <u>Jorge Luis Andrade Cifuentes</u> and Jose Luis Valencia Delfa: A Fuzzy Survival Tree (FST)</li> </ul>
17:05-18:45	<p><b>Parallel session 3: (Sala Cardenal Mendoza)</b> Chair: Susana Montes</p> <ul style="list-style-type: none"> <li>• <u>Juan Baz González</u>, Susana Montes and Irene Diaz: The choice of an appropriate stochastic order to aggregate random variables</li> <li>• <u>Hans De Meyer</u> and Bernard De Baets: The winning probability relation of parametrized families of random vectors</li> <li>• Luigi Bellomarini, <u>Davide Benedetto</u>, Eleonora Laurenza and Emanuel Sallinger: A Framework for Probabilistic Reasoning on Knowledge Graphs</li> <li>• <u>Tathaqata Basu</u>, Sébastien Destercke and Benjamin Quost: An Imprecise Label Ranking Method for Heterogeneous Data</li> <li>• <u>Damjan Skulj</u>: Characterization of extreme points of p-boxes via their normal cones</li> </ul>	<p><b>Parallel session 4: (Sala Calixto Villaverde)</b> Chair: Alicia Nieto-Reyes</p> <ul style="list-style-type: none"> <li>• <u>Alfonso García-Pérez</u>: Trimmed Spatio-Temporal Variogram Estimator</li> <li>• <u>Yolanda Larriba</u>, Alejandro Rodríguez-Collado and Cristina Rueda: Circular ordering methods for timing and visualization of oscillatory signals</li> <li>• <u>Luis González-De La Fuente</u>, Alicia Nieto-Reyes and Pedro Terán: Tukey depth for fuzzy sets</li> <li>• Stefano Cabras, Ignacio Cascos, Bernardo D'Auria, Maria Durban, Vanesa Guerrero and <u>Maicol Ochoa</u>: Biological age imputation by data Depth</li> <li>• <u>María Jaenada</u>, Narayanaswamy Balakrishnan and Leandro Pardo: Robust Rao-type tests for non-destructive one-shot device testing under step-stress model with exponential lifetimes</li> </ul>
19:00-21:00	<p><b>Welcome reception cocktail</b></p>	

21:15-22:45

**Night city tour**