TIME	SESSION 1 (Main amphitheatre)	SESSION 2 (Innovation center)
Tuesday 18th September		
8:30-9:00	**REGISTRATION (Transfer centre)**	
9:00-9:10	**Conference opening**	
9:10-10:10	**Time-dependent models (Transfert centre)** **Chair:** • **Monitoring of Time Series Using Fuzzy Weighted Prediction Models.** *Olgierd Hryniewicz and Katarzyna Kaczmarek-Majer* • **Computing Inferences for Large-Scale Continuous-Time Markov Chains by Combining Lumping with Imprecision.** *Alexander Erreygers and Jasper De Bock* • **An Imprecise Probabilistic Estimator for the Transition Rate Matrix of a Continuous-Time Markov Chain.** *Thomas Krak, Alexander Erreygers and Jasper De Bock*	
10:10-10:40	**COFFEE BREAK (Transfer centre)**	
10:40-11:40	**Keynote speaker 1: Thomas Augustin** **Chair:**	
11:40-13:00	**Clustering (Transfert centre)** **Chair:** • **Robust Fuzzy Clustering of Non-Linear Data.** *Maria Brigida Ferraro and Paolo Giordani* • **E2CM: an Evolutionary version of Evidential C-Means clustering algorithm.** *Zhi-Gang Su, Hong-Yu Zhou, Pei-Hong Wang, Gang Zhao and Ming Zhao* • **On evidential clustering with partial supervision.** *Violaine Antoine, Kévin Gravouil and Nicolas Labroche* • **An empirical study to determine the optimal k in Ek-NNclus method.** *Yiru Zhang, Tassadit Bouadi and Arnaud Martin*	
13:00-14:00	**LUNCH BREAK**	
14:00-15:20	**Theory of belief functions** **Chair:** • **Linear Belief Functions for Data Analytics.** *Liping Liu* • **From relations between sets to relations between belief functions.** *Sébastien Destercke, Frederic Pichon and John Klein* • **A Decomposable Entropy of Belief Functions in the Dempster-Shafer Theory.** *Radim Jirousek and Prakash P. Shenoy* • **An ordered family of consistency measures of belief functions.** *Ben Abdallah Nadia, Anne-Laure Jousselme and Frédéric Pichon*	**Limits and expectations** **Chair:** • **Choquet theorem for random sets in Polish spaces and beyond.** *Pedro Terán* • **Contrasting Two Laws of Large Numbers from Possibility Theory and Imprecise Probability.** *Pedro Terán and Elisa Pis Vigil* • **Continuity of the Shafer-Vovk-Ville Operator.** *Natan T'Joens, Gert De Cooman and Jasper De Bock* • **Beyond Doss and Frechet expectation sets.** *Juan Jesus Salamanca Jurado*
15:20-15:40	**COFFEE BREAK**	
15:40-17:00	**Uncertainty representations (Transfert centre)** **Chair:** • **Z-numbers as generalized probability boxes.** *Didier Dubois and Henri Prade* • **Generalising the Pari-Mutuel Model.** *Paolo Vicig, Renato Pelessoni and Chiara Corsato* • **Outer approximations of coherent lower probabilities using belief functions.** *Ignacio Montes, Enrique Miranda and Paolo Vicig* • **On Missing Membership Degrees: Modelling Non-existence, Ignorance and Inconsistency.** *Michal Burda, Petra Murinová and Viktor Pavliska*	
17:00-18:00	**BFAS GENERAL ASSEMBLY**	
19:00	**Town Hall reception**	

TIME	SESSION 1 (Main amphitheatre)	SESSION 2 (Innovation center)
	Wednesday 19th September	
9:00-10:00	**Reliability (Transfer centre)** **Chair:** • **Imprecise statistical inference for accelerated life testing data: imprecision related to the log-rank test.** *Abdullah Ahmadini and Frank Coolen* • **Imprecise probability inference on masked multicomponent system.** *Daniel Krpelik, Frank P.A. Coolen and Louis Aslett* • **Birnbaum's importance measure extended for non-coherent systems.** *Ayyoub Imakhlaf and Mohamed Sallak*	
10:00-10:30	**COFFEE BREAK (Transfer centre)**	
10:30-11:30	**Keynote speaker 2: Scott Ferson** **Chair:**	
11:30 -11:40	**BREAK**	
11:40-13:00	**Classification (Transfer centre)** **Chair:** • **Density estimation with imprecise kernels: application to classification.** *Guillaume Dendievel, Sébastien Destercke and Pierre Wachalski* • **Uncertainty-Aware Parzen-Rosenblatt Classifier for Multiattribute Data.** *Mohamed El Yazid Boudaren, Houdaifa Boukersoul and Ali Hamache* • **Dynamic Classifier Selection Based on Imprecise Probabilities: a Case Study for the Naive Bayes Classifier.** *Meizhu Li, Jasper De Bock and Gert De Cooman* • **Logistic regression revisited: belief function analysis.** *Thierry Denoeux*	
13:00-14:00	**LUNCH BREAK**	
14:00-15:20	**Fuzzy modelling** **Chair:** • **A net premium model for life insurance under a sort of generalized uncertain interest rate.** *Dabuxilatu Wang* • **Descriptive comparison of the rating scales through different scale estimates. Simulation-based analysis.** *Irene Arellano, Beatriz Sinova, Sara de La Rosa de Sáa, María Asunción Lubiano and Maria Angeles Gil* • **Regression ensemble with linguistic descriptions.** *Jiří Kupka and Pavel Rusnok* • **Case study-based sensitivity analysis of scale estimates w.r.t. the shape of fuzzy data.** *María Asunción Lubiano, Carlos Carleos, Manuel Montenegro and María Ángeles Gil*	**Information fusion** **Chair:** • **Prejudiced information fusion using belief functions.** *Didier Dubois, Francis Faux and Henri Prade* • **On the Conflict Measures Agreed with the Combining Rules.** *Alexander Lepskiy* • **General geometry of belief function combination.** *Fabio Cuzzolin* • **Study of distributed data fusion using Dempster rule and cautious operator.** *Romain Guyard and Véronique Cherfaoui*
15:20-15:40	**COFFEE BREAK**	
15:45-17:00	**Preferences (Transfer centre)** **Chair:** • **Decision Making: A Beliefs, Preferences and Constraints Model.** *Aouatef Rouahi, Kais Ben Salah and Khaled Ghedira* • **An Evidential Collaborative Filtering Approach based on Items Contents Clustering.** *Raoua Abdelkhalek, Imen Boukhris and Zied Elouedi* • **Cycle-free cuts of the reciprocal relation generated by random variables that are pairwisely coupled by a Frank copula.** *Hans De Meyer and Bernard De Baets* • **Some partial order relations on a set of random variables.** *Bernard De Baets and Hans De Meyer*	

TIME	SESSION 1 (Main amphitheatre)	SESSION 2 (Innovation center)
	Thursday 20th September	
9:00-10:00	**Coherence (Transfer centre)** **Chair:** • Coherence, compatibility and the running intersection property. *Enrique Miranda and Marco Zaffalon* • Characterization of conditional submodular capacities: Coherence and extension. *Giulianella Coletti, Davide Petturiti and Barbara Vantaggi* • A Desirability-Based Axiomatisation for Coherent Choice Functions. *Jasper De Bock and Gert De Cooman*	
10:00-11:30	**Spotlights, followed by poster session + coffee break (Transfert centre)** **List of posters** • Fuzzy regression model for trapezoidal data using fuzzy matrix. *Jin Hee Yoon* • Interval-valued kriging and climate applications. *Brennan Bean and Yan Sun* • Provenance across belief combination. *Pawel Kowalski and Trevor Martin* • Evidential recommender system based on collaborative filtering using different combination rules. *Xiaoyun Yang and Kuang Zhou* • Supply Chain Equilibrium with Upstream Demand Uncertainty and Continuous Beliefs: a Comparative Statics Analysis. *Costis Melolidakis, Stefanos Leonardos and Constandina Koki* (full paper) • Improved performance of EK-NNClus by selecting appropriate parameter. *Qian Wang and Zhigang Su* (full paper)	
11:30-12:30	**Keynote speaker 3: Ryan Martin** **Chair:**	
12:30-13:30	**LUNCH BREAK**	
13:30-14:50	**Information measures** **Chair:** • Central moments of a fuzzy random variable using the signed distance: a look towards the variance. *Redina Berkachy and Laurent Donzé* • Belief and plausibility functions on the space of scalar products and applications. *Juan Jesus Salamanca Jurado* • The Kantorovich Problem and Wasserstein Metric in the Theory of Belief Functions. *Andrey G. Bronevich and Igor N. Rozenberg* • Measures of dispersion for interval data. *Przemyslaw Grzegorzewski*	**Applications of belief functions** **Chair:** • The Belief Functions Theory for Sensor Localization in Indoor Wireless Networks. *Daniel Alshamaa, Farah Mourad-Chehade and Paul Honeine* • An evidential k-nearest neighbors combination rule for tree species recognition. *Siwar Jendoubi, Didier Coquin and Reda Boukezzoula* • Evidential community detection based on density peaks. *Kuang Zhou, Quan Pan and Arnaud Martin* • Evidential Independence Maximization on Twitter Network. *Siwar Jendoubi, Mouna Chebbah and Arnaud Martin*
14:50-15:20	**COFFEE BREAK**	
15:20-16:40	**Classification (Transfer centre)** **Chair:** • Active evidential calibration of binary SVM classifiers. *Sébastien Ramel, Frédéric Pichon and François Delmotte* • A Compact Belief Rule-Based Classification System with Evidential Clustering. *Lianmeng Jiao, Xiaojiao Geng and Quan Pan* • Exploiting domain-experts knowledge within an evidential process for case base maintenance. *Safa Ben Ayed, Zied Elouedi and Eric Lefevre* • An Evidential K-Nearest Neighbor Classifier based on Contextual Discounting and Likelihood Maximization. *Orakanya Kanjanatarakul, Siwarat Kuson and Thierry Denoeux*	
19:00-23:00	**Banquet dinner**	

TIME	SESSION 1 (Main amphitheatre)	SESSION 2 (Innovation center)
Friday 21th September		
9:40-11:00	**Statistical estimation (Transfer centre)** **Chair:** • **Empirical comparison of the performance of location estimates of fuzzy number-valued data.** *Beatriz Sinova and Stefan Van Aelst* • **Estimation of Classification Probabilities in Small Domains Accounting for Nonresponse Using an Imprecise Probability Approach.** *Aziz Omar and Thomas Augustin* • **A maximum likelihood approach to inference under coarse data based on minimax regret.** *Romain Guillaume and Didier Dubois* • **Generalised max entropy classifiers.** *Fabio Cuzzolin*	
11:00-11:40	**COFFEE BREAK (Transfer centre)**	
11:40-12:40	**Application (Transfer centre)** **Chair:** • **An heuristic approach for the Robust Flight Level Assignment problem.** *Akli Fundo, Dritan Nace and Chenghao Wang* • **Control Charts Designed Using Model Averaging Approach for Phase Change Detection in Bipolar Disorder.** *Katarzyna Kaczmarek-Majer, Olgierd Hryniewicz, Karol Opara, Weronika Radziszewska, Anna Olwert, Jan Owsiński and Sławomir Zadrożny* • **Application of Belief Functions to Levee Assessment.** *Théo Dezert, Yannick Fargier, Sérgio Palma Lopes and Philippe Côte*	
12:40-14:00	**Closing ceremony + LUNCH BREAK**	