

Monday

- 14:00 registration desk opens in Collingwood College
- 18:30 informal drink in the Court Inn in the center of Durham (on the intersection of Elvet Crescent and Court Lane)

Tuesday

- 9:00 **Opening**
- 9:30 **Exchangeability for Sets of Desirable Gambles**
Gert de Cooman, Erik Quaeghebeur
- 9:45 **Sets of Desirable Gambles and Credal Sets**
Inés Couso, Seraffn Moral
- 10:00 **Affinity and Continuity of Credal Set Operator**
Tomáš Kroupa
- 10:15 **Poster Session & Tea**
- 11:00 **Natural Extension as a Limit of Regular Extensions**
Enrique Miranda, Marco Zaffalon
- 11:15 **Concentration Inequalities and Laws of Large Numbers under Epistemic Irrelevance**
Fabio Cozman
- 11:30 **The Pari-Mutuel Model**
Renato Pelessoni, Paolo Vicig, Marco Zaffalon
- 11:45 **A Minimum Distance Estimator in an Imprecise Probability Model: Computational Aspects and Applications**
Robert Hable
- 12:00 **Poster Session**
- 12:45 **Lunch**

13:45 **Tutorial: Inference**
Erik Quaeghebeur

14:45 **Tea**

Special Session in Honour of Henry Kyburg

15:15 **Busting Bayes: Learning from Henry Kyburg**
Isaac Levi

15:30 **Statistical Inference for Interval Identified Parameters**
Jörg Stoye

15:45 **Imprecise Probabilities from Imprecise Descriptions of Real Numbers**
Jonathan Lawry, Inés González-Rodríguez, Yongchuan Tang

16:00 **How Can We Get New Knowledge?**
Frank Hampel

16:15 **Poster Session**

18:00 **SIPTA General Meeting**

Wednesday

- 9:00 **On General Conditional Random Quantities**
Veronica Biazzo, Angelo Gilio, Giuseppe Sanfilippo
- 9:15 **On the Use of a New Discrepancy Measure to Correct Incoherent Assessments and to Aggregate Conflicting Opinions Based on Imprecise Conditional Probabilities**
Andrea Capotorti, Giuliana Regoli, Francesca Vattari
- 9:30 **Approximation of Coherent Lower Probabilities by 2-Monotone Measures**
Andrew Bronevich, Thomas Augustin
- 9:45 **Almost Probabilistic Assignments and Conditional Independence (a contribution to Dempster-Shafer theory of evidence)**
Radim Jiroušek
- 10:00 **Poster Session & Tea**
- 10:45 **Shifted Dirichlet Distributions as Second-Order Probability Distributions that Factors into Marginals**
David Sundgren, Love Ekenberg, Mats Danielson
- 11:00 **Credal Semantics of Bayesian Transformations**
Fabio Cuzzolin
Consistent Approximations of Belief Functions
Fabio Cuzzolin
- 11:15 **Multivariate Models and Confidence Intervals: A Local Random Set Approach**
Thomas Fetz
- 11:30 **On Solutions of Stochastic Differential Equations with Parameters Modelled by Random Sets**
Bernhard Schmelzer
- 11:45 **Poster Session**
- 12:45 **Lunch**

13:45 **Tutorial: Reliability**

Lev Utkin

14:45 **Tea**

Special Session in Honour of Pauline Coolen-Schrijner

15:15 **Introduction**

Thomas Augustin

15:30 **Nonparametric Predictive Multiple Comparisons with Censored Data and Competing Risks**

Tahani Maturi, Pauline Coolen-Schrijner, Frank Coolen

15:45 **Category Selection for Multinomial Data**

Rebecca Baker, Frank Coolen

16:00 **Imprecise Markov Chains with an Absorbing State**

Richard Crossman, Pauline Coolen-Schrijner, Damjan Škulj, Frank Coolen

16:15 **Poster Session**

Thursday

- 9:00 **Tests of the Mean with Distributional Uncertainty: An Info-Gap Approach**
Yakov Ben-Haim
- 9:15 **Duality Between Maximization of Expected Utility and Minimization of Relative Entropy When Probabilities are Imprecise**
Robert Nau, Victor Richmond Jose, Robert Winkler
- 9:30 **Boundary Linear Utility and Sensitivity of Decisions with Imprecise Utility Trade-Off Parameters**
Malcolm Farrow, Michael Goldstein
- 9:45 **Iterated Random Selection as Intermediate Between Risk and Uncertainty**
Horacio Arló Costa, Jeffrey Helzner
- 10:00 **Poster Session & Tea**
- 11:00 **Representing and Solving Factored Markov Decision Processes with Imprecise Probabilities**
Karina Delgado, Leliane Barros, Fabio Cozman, Ricardo Shirota Filho
- 11:15 **Characterizing Factuality in Normal Form Sequential Decision Making**
Nathan Huntley, Matthias C. M. Troffaes
- 11:30 **A Tree Augmented Classifier Based on Extreme Imprecise Dirichlet Model**
Giorgio Corani, Cassio Campos, Sun Yi
- 11:45 **Poster Session**
- 12:45 **Lunch**

13:45 **Tutorial: Decision Making**
Robert Hable

14:45

15:30 **Guided Tour in Durham Cathedral**

17:00

19:00 **Conference Dinner in Durham Castle**

Friday

- 9:00 **Aggregating Imprecise Probabilistic Knowledge**
Alessio Benavoli, Alessandro Antonucci
- 9:15 **On the Behavior of the Robust Bayesian Combination Operator and the Significance of Discounting**
Alexander Karlsson, Ronnie Johansson, Sten F. Andler
- 9:30 **On Conditional Independence in Evidence Theory**
Jiřina Vejnarova
- 9:45 **Closure of Independencies under Graphoid Properties: Some Experimental Results**
Marco Baiocchi, Giuseppe Busanello, Barbara Vantaggi
- 10:00 **Poster Session & Tea**
- 11:00 **Epistemic Irrelevance in Credal Networks: The Case of Imprecise Markov Trees**
Gert de Cooman, Filip Hermans, Alessandro Antonucci, Marco Zaffalon
- 11:15 **Coefficients of Ergodicity for Imprecise Markov Chains**
Damjan Ŗkulj, Robert Hable
- 11:30 **A Generalization of Credal Networks**
Marco Cattaneo
- 11:45 **Poster Session**
- 12:45 **Lunch**

13:45 **Tutorial: Graphical Models**

Cassio De Campos

14:45 **Tea**

15:15 **Session on Symmetric Theory of Probability**

Kurt Weichselberger

16:00 **Poster Session for Abstract-Only Contributions**

(see list of abstracts)

Saturday

- 9:00 **The Role of Generalised p-Boxes in Imprecise Probability Models**
Sébastien Destercke, Didier Dubois
- 9:15 **Interpretation and Computation of α -Junctions for Combining Belief Functions**
Frédéric Pichon, Thierry Dencœur
- 9:30 **Noise Quantization via Possibilistic Filtering**
Kevin Loquin, Olivier Strauss
- 9:45 **Combining Imprecise Bayesian and Maximum Likelihood Estimation for Reliability Growth Models**
Lev Utkin, Svetlana Zatenko, Frank Coolen
- Multi-Criteria Decision Making with a Special type of Information about Importance of Groups of Criteria**
Lev Utkin
- 10:00 **Poster Session & Tea**
- 11:00 **Reasoning with Imprecise Probabilistic Knowledge on Enzymes for Rapid Screening of Potential Substrates or Inhibitor Structures**
Weiru Liu, Anbu Yue, David J. Timson
- 11:15 **Threat and Control in Military Decision Making**
Christofer Waldenström, Love Ekenberg, Mats Danielson
- 11:30 **Object Association in the TBM Framework, Application to Vehicle Driving Aid**
David Mercier, Eric Lefevre, Daniel Jolly
- 11:45 **Poster Session**
- 12:45 **Lunch**

- 13:45 **Bayes Linear Analysis of Imprecision in Computer Models, with Application to Understanding Galaxy Formation**
Ian Vernon, Michael Goldstein
- 14:00 **Dutch Books and Combinatorial Games**
Peter Harremoës
- 14:15 **Buying and Selling Prices under Risk, Ambiguity and Conflict**
Michael Smithson, Paul D. Campbell
- 14:30 **Closing**
- 14:45 **Poster Session & Tea**
- 17:30 **Barbeque Party**
Best Poster Award
Student IJAR Award