6th School on Belief Functions and their Applications

https://bfasociety.org/BFTA2023

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Important Dates

1st May 2023: Registration opens

31st July 2023: Deadline for early-bird registration

Students 190€ (early-bird) / 240 €

Regular 290€ (early-bird) / 340 €

Online 50€

Places are limited

Organizing committee

Van-Nam Huynh (Chair), JAIST, Japan

Thierry Denoeux, Université de technologie de Compiègne, France

Anne-Laure Jousselme, CS Group Research Lab, France

Fréderic Pichon, Université d'Artois, France

David Mercier, Université d'Artois, France

Contact information:

Email: bfta2023@bfasociety.org

bfasociety.org/BFTA2023

The School

The BELIEF school is a biennial event organized by the Belief Functions and Applications Society (BFAS) that offers a unique opportunity for students and researchers to learn about fundamental and advanced aspects of the theory of belief functions (also referred to as Dempster-Shafer theory, or evidence theory), a formalism for reasoning with uncertainty.

The school will be organized around a set of lectures by prominent researchers. Lectures will gradually tackle basic to more advanced theoretical concepts. They will also highlight the links with other uncertainty theories such as random sets and possibility theory, and present applications of belief functions in various domains including machine learning, information fusion, statistical inference and materials science.

The Lectures

Introduction to the theory of belief functions
Thierry Denoeux, Université de Technologie de Compiègne, France

Evidential clustering
Thierry Denoeux, Université de Technologie de Compiègne, France

Differential privacy for belief functions
Chunlai Zhou, Renmin University of China

Pattern classification with belief functions
Zhunga Liu, Northwtesern Polytechnical Universityn Xi'an, China

Information fusion in the theory of evidence
Frédéric Pichon, Université d'Artois, France

Application of possibility theory to optimization and decision making
Masahiro Inuiguchi, Osaka University, Japan

Epistemic random fuzzy sets: theory and application to machine learning
Thierry Denoeux, Université de Technologie de Compiègne, France

Applications of Belief Functions for Exploring Novel Materials
Hieu Chi Dam, JAIST, Japan

Old and new developments in (consonant) belief functions for statistical inference
Ryan Martin, North Carolina State University, USA

Graphical Belief Function Models: Theory, Computation and Applications
Prakash Shenoy, School of Business, University of Kansas, USA

Measuring inconsistency in evidence theory
Anne-Laure Jousselme, CS Group Research Lab, France

Application of belief functions to ensemble classification and recommendation
Van-Nam Huynh, JAIST, Japan

Note: BFAS offers financial assistance to certain students to enable them to attend school - Details on the website.