

BELIEF 2026

Programme

9th International Conference on Belief Functions
19–21 October 2026
Southeast University, Sipailou Campus, Nanjing, China

Format	Single-track conference with on-site and online participation
Time zone	China Standard Time (UTC+8)
Contributed talks	15-minute presentation followed by 5 minutes of discussion
Conference start	Monday 19 October at 08:30 (registration); opening at 09:00
Conference close	Wednesday 21 October at approximately 16:00

Programme overview

Date	Morning	Afternoon	Evening
Mon 19 Oct	Opening, Keynote 1, Theory	Deep Learning	Welcome Reception
Tue 20 Oct	Keynote 2, Classification	Lifetime Prediction, Decision Analysis, BFAS Assembly	Gala Dinner and Best Paper Award
Wed 21 Oct	Large Language Models, Information Fusion	Clustering and Closing	-

Detailed room assignments and online access information will be announced later.

Monday 19 October *Morning*

Time	Programme
08:30-09:00	Registration
09:00-09:20	Opening Ceremony
09:20-10:20	Keynote 1 Optimal transport under Dempster-Shafer theory (<i>Chair: Thierry Denœux</i>) <i>Barbara Vantaggi, Sapienza University of Rome, Italy</i>
10:20-10:40	Coffee Break
10:40-12:40	Session 1 Theory <i>Chair: Frédéric Pichon</i>
10:40-11:00	Walsh-Hadamard Transform of Basic Probability Assignment <i>Ruolan Cheng, Yong Deng</i>
11:00-11:20	Dempster, Geometric and Bayesian Conditionings w.r.t. Random Sets <i>Andrey Bronevich, Igor Rozenberg</i>
11:20-11:40	Gamma-based Distance Measure For Layer-2 Belief Structure <i>Luyuan Chen, Xinghua Zhou, Qianli Zhou</i>
11:40-12:00	The variety of evidence thesis holds in evidence theory <i>Frédéric Pichon, Juergen Landes, Sébastien Destercke</i>
12:00-12:20	Order-N Entropies as Conflict Measures in Generalised Evidence Theory <i>Thierry Denœux, Anne-Laure Jousselme, Frédéric Pichon</i>
12:20-12:40	Combining Reliability Judgments <i>Liping Liu</i>

Monday 19 October *Afternoon and Evening*

Time	Programme
12:40-14:00	Lunch
14:00-16:00	Session 2 Deep Learning <i>Chair: Xinyang Deng</i>
14:00-14:20	Neural Networks with Differentiable Belief-Function Layers <i>Antonin Sulc</i>
14:20-14:40	Deep Belief Forest for Pattern Classification <i>Deqiang Han, Wei Li, Jean Dezert</i>
14:40-15:00	Deep Learning Uncertainty Qualification with Belief Structure <i>Qianli Zhou, Mingxi Yin, Xinyang Deng, Wen Jiang</i>
15:00-15:20	Ev-YOLO: Uncertainty-Aware Object Detection via a Unified Evidential Formulation <i>Simon Barbarit-Gaboriau, Hind Laghmara, Rémi Boutteau, Samia Ainouz</i>
15:20-15:40	Evidential Feature Maps for Semantic Scene Segmentation <i>Abdelhak Benamirouche, Hind Laghmara, Rémi Boutteau, Jean-Philippe Lauffenburger</i>
15:40-16:00	Uncertainty-Aware Deep Learning for Breast Cancer Detection in Mammograms with Breast Implants <i>Junjie Huang, Yucheng Xing, Ling Huang, Hao Du</i>
16:00-16:20	Coffee Break
17:30-19:00	Welcome Reception <i>Venue to be announced</i>

Tuesday 20 October *Morning*

Time	Programme
09:00-10:00	Keynote 2 Pattern classification with belief functions and deep neural networks (Chair: Zhi-gang Su) <i>Zhunga Liu, Northwestern Polytechnical University, China</i>
10:00-10:20	Coffee Break
10:20-12:20	Session 3 Classification <i>Chair: Didier Coquin</i>
10:20-10:40	QEKNN: Quantum Evidential K-Nearest Neighbors Classifier for Uncertain Pattern Classification <i>Ruihan Li, Junjie Huang, Fuyuan Xiao, Xiaoling Li</i>
10:40-11:00	Mixture of Evidential Experts: Differentiable Dempster-Shafer Fusion for Robust Classification <i>Toan Nguyen-Mau, Hideomi Gokon, Van-Nam Huynh</i>
11:00-11:20	Evidential Counterfactual Explanations for Instance-Based Classification under the Belief Function Framework <i>Abderrahmane Chelouche, Safa Ben Ayed, Zied Elouedi, Eric Lefèvre</i>
11:20-11:40	MassMatch: Semi-Supervised Learning through Dempster Shafer Theory <i>Han Lam, Toan Nguyen-Mau, Duc-Vinh Vo, Van-Nam Huynh</i>
11:40-12:00	Continual Novel Target Class Identification in Open-World Frame of Discernment <i>Xuan Zhao, Zhikun Feng, Ping Kuang</i>
12:00-12:20	Conditional Dempster-Shafer Modeling for Avalanche Risk Assessment <i>Didier Coquin, Frédéric Pourraz, Gilles Mauris</i>
12:20-13:40	Lunch

Tuesday 20 October *Afternoon and Evening*

Time	Programme
13:40-14:40	Session 4 Lifetime Prediction <i>Chair: Thierry Denœux</i>
13:40-14:00	Remaining Useful Life Prediction and Its Uncertainty Quantification Using Gaussian Random Fuzzy Numbers <i>Mingyu Liao, Ling Huang, Tangfan Xiahou</i>
14:00-14:20	Uncertainty Quantification for Lithium-ion Battery RUL Prediction Using Deep Evidential Regression <i>Haoyu Fang, Yuhan Wang, Ziheng Ni, Anxu Chen, Kai Wang, Junqin Yan, Xianyong Peng</i>
14:20-14:40	CR-ENNreg: An Evidential Survival Model for Competing Risks Analysis <i>Chunlin Mi, Su Ruan, Ling Huang, Pierre Vera, Thierry Denœux</i>
14:40-15:00	Coffee Break
15:00-16:20	Session 5 Decision Analysis and Hypothesis Testing <i>Chair: Chunlai Zhou</i>
15:00-15:20	Evidential Reasoning-Based Mode-Combination Selection for Nonstationary Signal Denoising <i>Xinyi Zhang, Shiyi Su</i>
15:20-15:40	A Semantic Association Model-Based Decision-Making Method Considering Correlations among Assessment Grades <i>Xinyang Deng, Xiang Li, Qianli Zhou, Wen Jiang</i>
15:40-16:00	Decision-Aware Approximation of Belief Functions for Evidential Combinatorial Optimization <i>Sohaib Afifi</i>
16:00-16:20	Two Evidential Frameworks for Differential Privacy <i>Ning Liu, Hui Zou, Chunlai Zhou</i>
16:30-17:00	BFAS General Assembly <i>Hybrid participation for BFAS members; online access details to be announced</i>
18:30-20:30	Gala Dinner <i>Venue to be announced; Best Paper Award presentation during dinner</i>

Wednesday 21 October *Morning*

Time	Programme
09:00-10:20	Session 6 Large Language Models <i>Chair: Zheng Tong</i>
09:00-09:20	Typographic Attack Detection in Large Vision-Language Models via Attention-Level Evidential Conflict <i>Xiaofei Liu, Tao Huang, Rui Wang, Liping Jing</i>
09:20-09:40	An Evidential Fusion Method for LLM-Based Multi-Agent Consensus-Reaching <i>Yuxiang Bao, Zheng Tong</i>
09:40-10:00	Source-Aware Belief Cues and Evidence Weighting in Clinical large language model <i>Shuai Luo, Ke Zou, Ling Huang, Meng Liu, Nan Zhou, Jian Zhong, Lijun Jiang, Diwen Zhang, Lanxiang Wang, Yi Zhang, Hu Chen</i>
10:00-10:20	Event-Triggered Belief Consensus over Large Language Model-Enabled Multi-Agent System with Dynamic Topologies <i>Zheng Tong, Yuxiang Bao</i>
10:20-10:40	Coffee Break
10:40-12:40	Session 7 Information Fusion <i>Chair: Fuyuan Xiao</i>
10:40-11:00	A Belief Function-Based Multi-Source Fusion Method for Uncertainty-Aware Short-Term Traffic State Prediction <i>Wei Bai, Boya Yang, Weijie Wang, Linheng Li</i>
11:00-11:20	Belief-Function-Based Evidence Fusion for Uncertainty-Aware Mechanism Inference of Erigeron breviscapus in Ethnic Medicine <i>Siqi Li, Ling Huang</i>
11:20-11:40	Monte Carlo Combination of Random Fuzzy Sets <i>Thierry Denœux</i>
11:40-12:00	Apple Grading Based on the Combination of Dependent Gaussian Random Fuzzy Numbers <i>Yuhang Yao, Mingxiao Xin, Liyao Ma, Shuhui Bi</i>
12:00-12:20	Confidence-Aware Evidential Fusion for Multi-Modal Drone Detection <i>Xiangqiong Xiao, Chunzhao Ma, Lianmeng Jiao</i>
12:20-12:40	Evidential Full-State-Graph-Assisted Fusion for Trustworthy Gas Turbine Power Prediction <i>Zhiqian He, Haoyu Fang, Jinwei Chen</i>
12:40-14:00	Lunch

Wednesday 21 October *Afternoon*

Time	Programme
14:00-15:20	Session 8 Clustering <i>Chair: Chaoyu Gong</i>
14:00-14:20	KCECM: A Kernel-Based Constrained Evidential C-Means Clustering Method <i>Feng Li, Ling Hou, Jusheng Mi, Yanmeng Wang</i>
14:20-14:40	Reliability-Stratified Evidential Clustering with Structural Anchors <i>Haiyue Fu, Qian Wang, Zhi-gang Su</i>
14:40-15:00	Automatic Belief Peak Selection for Incomplete Data Clustering <i>Chaoyu Gong, Tianyi Huang, Qian Wang</i>
15:00-15:20	Evidential Cluster-Based Active Learning <i>Nawres Alibi, Zied Elouedi, Eric Lefèvre</i>
15:20-15:40	Coffee Break
15:40-16:00	Closing Ceremony

Programme notes

- All times are China Standard Time (UTC+8).
- The conference is planned as a single-track event.
- Each contributed-paper slot includes a 15-minute presentation and 5 minutes for questions and discussion.
- On-site participation is preferred. The ordering of talks may be adjusted after presenters confirm whether they will participate on site or online.
- All technical sessions will be recorded as shared-screen video and audio. Access will be provided to registered participants after the conference.
- The BFAS General Assembly will include an online participation option for BFAS members.