Special Track on

Uncertain Reasoning

The special track on uncertain reasoning (UR) is the oldest track in FLAIRS conferences, running annually since 1996. The uncertain reasoning track at the twenty-first International Florida Artificial Intelligence Research Society Conference (FLAIRS-21) is the thirteenth in the series.

Like the past tracks, this uncertain reasoning special track seeks to bring together researchers working on broad issues related to reasoning under uncertainty, including but not limited to uncertain reasoning formalisms, calculi and methodologies; reasoning with probability, possibility, fuzzy logic, belief function, argumentation, rough set, and probability logics; modeling and reasoning using imprecise and indeterminate information, such as: choquet capacities, comparative orderings, convex sets of measures, and intervalued probabilities; exact, approximate and qualitative uncertain reasoning; graphical models of uncertainty; multiagent uncertain reasoning and decision making; decision-theoretic planning and Markov decision process; temporal reasoning and uncertainty; construction of models from elicitation, data mining and knowledge discovery; uncertain reasoning in information retrieval, filtering, fusion, diagnosis, prediction, situation assessment; practical applications of uncertain reasoning

Through rigorous reviews by the program committee, this special track accepted 15 papers from 21 submissions, which are included in this proceedings.

The track also features a special session dedicated to Henry E. Kyburg Jr., a renowned and respected professor of computer science and philosophy, who passed away October 30, 2007. Prof. Kyburg served in the uncertain reasoning track program committees in 1996-99, 2002-03, 2005-07, including the founding program committee in 1996, and presented his work in the track in 1998, 2002 and 2004.