

Updated and Extended Network Analysis of the Imprecise Probability Community based on ISIPTA Electronic Proceedings

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Poster Abstract

This year, the series of biennial ISIPTA symposia, which are a central platform for discussing and presenting current research in the field of imprecise probability (IP), celebrates its tenth anniversary. Furthermore, for the first time, it is co-located with ECSQARU (European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty).

In the tradition of previous poster contributions (Eugster et al., 2011; Walter et al., 2015) we like to shed light onto the research network structure in the IP community, based on co-authorships of all ISIPTA papers, including this very symposium. Besides looking at standard network characteristics in the context of scientific collaboration networks, we also investigate how the population of contributions has changed over time, having a detailed look at the founding participants of the first symposium. Furthermore, we will also visualize the links to the community of ECSQARU. An additional analysis of the papers' keywords from the past three conferences will show whether there are current trends and 'hot topics' within the contributions.

Moreover, the poster's contents are interactively explorable at the conference, which provides the opportunity to discover and investigate additional aspects. To boost further investigations, we updated the underlying data of the accompanying R package `ISIPTA` (Eugster et al., 2015) to reflect this year's contributions and will make it publicly available.

References

- M. J. A. Eugster, G. Walter, and T. Augustin. A network analysis of the imprecise probability community based on ISIPTA electronic proceedings. Poster for ISIPTA '11, 2011. <http://www.sipta.org/isipta11/proceedings/posters/pa008poster.pdf>.
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- G. Walter, C. Jansen, and T. Augustin. Updated network analysis of the imprecise probability community based on isipta electronic proceedings. Poster for ISIPTA '15, 2015. <http://www.sipta.org/isipta15/data/poster/51.pdf>.