Decision Support and Recommender Systems Research Group

University of BRISTOL

Who are we

The Decision Support and Recommender Systems (DSRS) Research Group was established in 2018 by a team of researchers from University of Bristol's Department of Computer Science (SCEEM). We investigate how data science, information fusion, multi-criteria decision analysis and artificial intelligence can help to **support contemporary decision-making and personalisation scenarios across disciplines involving individuals and groups**. Our aim is to develop cutting-edge solutions to current societal challenges involving complex decision-making in real world problems, through interdisciplinary, international and high-impact research and development activities.

What we do?

Here are some examples of our research directions and ongoing projects:

Large Group Decision Making and Consensus Building - Supporting collective decision-making scenarios requiring consensus among large and highly diverse groups of participants exhibiting conflicting opinions, attitudes, behaviour and social interactions.

Recommender Systems and Applications – Developing state-of-the-art personalisation approaches for recommending services, products or activities to both individuals and groups. Our target applications of interest include (i) personalisation for wellness and healthy living, (ii) tourism and leisure activity recommendation in smart cities, and (iii) reciprocal recommender systems for online dating and socialising-oriented personalisation.

Intelligent Aggregation Techniques – Investigating how to intelligently incorporate and combine multiple sources of preferential, social and/or contextual data to (i) make highly informed group decisions and (ii) improve the performance of modern recommender system approaches.

Human Decision Support with AI in the Loop – Supporting decision makers, stakeholders and analysts in making human-led data-driven decisions in complex scenarios, e.g. financial analysis, e-government, security analytics, management sciences, etc.

Our Collaborators

We advocate highly multidisciplinary and international research with potential to reach out to and generate impact on - the wider society. Our collaborations involve R&D activity with universities across the globe, research labs and industry. Some examples of such collaborators include:

Contact Us

We would be happy to hear from you.
Get in touch with DSRS to find out more, get involved or discuss opportunities for collaboration.

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