Explainable User Models

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Deadline for manuscript
submissions:
closed (20 February 2022)

Message from the Guest Editors

As AI systems' actions and decisions will significantly affect their users, it is important to understand how an AI system represents its users. Furthermore, in light of AI algorithms largely behaving as black boxes, one key aim of explainability is to make the inner workings of AI systems more accessible and transparent.

Such explanations can help when the system uses information about the user to develop a working representation of the user, and then uses this representation to adjust or inform system behavior. E.g., an educational system could detect if students have a more internal or external locus of control, or a music recommender system could adapt the music it is playing to the current mood of a user. However, when adapting to such user models, it is crucial that these models are accurately detected. Furthermore, the explanations should explain or justify their representations of users in a human-understandable way. This creates a necessity for techniques to create models for the automatic generation of satisfactory explanations intelligible for human users interacting with the system.

For more information, see our SI website: https://www.mdpi.com/si/91821.

Special Issue