

FLAIRS-30 Poster Abstracts

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Group Decision Making Mechanisms and Evaluation

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We identify outstanding challenges for intelligent support of group decision-making. Decision-making is a multi-disciplinary term. Technology for large group decision-making is undergoing significant advancement with the widespread use of social networks and online decision support tools. Manual rules that govern traditional face-to-face meetings need to be adapted to suit virtual meetings where co-decisions have to be made virtually. Collaborative virtual group decision-making is essential for several applications where face-to-face meetings is not pertinent. As information technology has added more dimensions to problems tackled by humans, it is a challenge to make decisions in such dynamic era. Online group decision-making can impact people's significant choices in different ways. The scale of technology-supported decision-making has grown to the point where virtual group decision-making influence has been accused or lauded in the last few US elections. Certain attributes are highly required. Various mechanisms and evaluation criteria are used to study and analyze group decision-making processes. Communications and different threats may affect critical decisions. Multiple attacks have been revealed. More intelligence could be integrated into group decision-making processes to support better communication and visualization of information concerning decision alternatives. Information available about decision alternatives has to be analyzed and adequately presented to decision makers. Varied decision information could be structured by the aid of decision support systems. Solid evaluation criteria for virtual group decision-making processes are needed. Numerous research directions that contribute to group decision-making advancement are highlighted.