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7 <u>Brief synopsis</u>

Collaborative Decision Making (CDM) is an important human activity and it has many practical applications in society, economy, management and engineering, etc. Many real world decision problems are involving uncertainty in which information may be incomplete or not available. This situation makes decision making a complex task. In this research work we present a trust computational model for multi agent collaborative work and a social decision making algorithm capable of aggregating the decisions of individuals based on trust. This agent based framework for collaborative decision making supports a diverse problem space and a trust based social decision algorithm for a distributed environment.