COMPUTER-AIDED REASONING
ABOUT COLLECTIVE DECISION MAKING

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Collective Decision Making  =  Algorithms
Contributions to the Field

**Computational Complexity**

Compute outcome
Barrier against Manipulation
Contributions to the Field

**Computational Complexity**
- Compute outcome
- Barrier against Manipulation

**Logic & Knowledge Representation**
- Compact Representation of Preferences
- Voting in Combinatorial Domains
Contributions to the Field

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Further Challenges

Automated Reasoning

COMSOC