

Ulle Endriss

Computational Social Choice

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Social choice theory deals with questions regarding the design and analysis of methods for collective decision making. Examples for such methods include voting procedures and protocols for fairly dividing a set of goods amongst the members of a group. In recent years there has been a growing interest in the computational aspects of collective decision making, giving rise to the field of computational social choice. This tutorial will give an overview of this new field, highlighting contributions of and opportunities for AI. It will be accessible to anyone working in AI. Short bio Ulle Endriss is an assistant professor at the Institute for Logic, Language and Computation (ILLC) at the University of Amsterdam, where he carries out research at the interface of logic, AI, and mathematical economics. In 2006, he organised the inaugural edition of the International Workshop on Computational Social Choice (COMSOC).