Computational social choice is concerned with the design and analysis of methods for collective decision making. It is a research area that is located at the interface of Computer Science and Economics. The central question studied in computational social choice is that of how best to aggregate the individual points of view of several agents, so as to arrive at a reasonable compromise. Examples include tallying the votes cast in an election, aggregating the professional opinions of several experts, and finding a fair manner of dividing a set of resources amongst the members of a group.

This volume reports on a number of recent research trends in computational social choice. It has three parts. The first part presents novel scenarios in which methods for collective decision making are required. The second part introduces novel techniques for the analysis of such methods. The third part, finally, discusses a range of innovative applications enabled by recent research in computational social choice.

The 20 chapters making up this volume have been written by leading experts in the field. They will be of interest to senior researchers and students alike, coming from a wide variety of disciplines, such as Computer Science, Artificial Intelligence, Mathematics, Economics, Political Science, and Philosophy.

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