## Multi-agent scheduling problems

Alessandro Agnetis Dipartimento di Ingegneria dell'Informazione Universitàdi Siena (Italy)

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## Abstract

Multi-agent scheduling refers to a particular class of multi-objective scheduling problems in which the objectives correspond to different decision makers (agents), each owning a subset of jobs. Each agent is only concerned with how his/her jobs are scheduled, so a compromise schedule must be sought, accounting for each agent's performance criterion. Multi-agent scheduling problems arise in several contexts, including transportation logistics, telecommunications and distributed computing systems. The multi-agent nature of these problems can be addressed by a wide range of methodological tools, including combinatorial optimization, game theory, bargaining models. In this talk we review the main approaches and results, pointing out open problems and venues for future research.