On General Methodology for Solving Inverse Scheduling Problems
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Joint work with Peter Brucker. A forward optimization problem consists in finding an optimal solution that minimizes a given objective function under an assumption that all input data are precisely known and fixed. In an inverse optimization problem, some typical parameters and a target solution are given. The objective is to modify the parameters as little as possible so that the target solution becomes optimal. While many classical optimization problems have been studied from the point of view of inverse optimization, the results in the area of scheduling are quite limited. The talk will present a general methodology for addressing inverse scheduling problems and an overview of the results.