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Fast and robust order-based scheduling to solve the Mid-Term planning problem

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Major focus for order-based scheduling is the determination of valid production sequences considering any plant constraint on the one hand while minimizing the amount of required setup coils on the other hand. A mid-term solver for one production step should automatically select orders from a given set of available orders (order backlog), assign them to a certain plant and define valid production sequences. To be able to integrate as many different constraints as possible a solver should be able to consider local (order-to-order) as well as global constraints (based on the full order sequence). We present the DynReAct mid-term planning module exploiting Tabu-Search combined with a Traveling-Salesman Solver.

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