



# Online Scheduling in Manufacturing: A Cumulative Delay Approach

*Haruhiko Suwa, Hiroaki Sandoh*

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Online scheduling is recognized as the crucial decision-making process of production control at a phase of "being in production" according to the released shop floor schedule. Online scheduling can be also considered as one of key enablers to realize prompt capable-to-promise as well as available-to-promise to customers along with reducing production lead times under recent globalized competitive markets.

*Online Scheduling in Manufacturing* introduces new approaches to online scheduling based on a concept of cumulative delay. The cumulative delay is regarded as consolidated information of uncertainties under a dynamic environment in manufacturing and can be collected constantly without much effort at any points in time during a schedule execution. In this approach, the cumulative delay of the schedule has the important role of a criterion for making a decision whether or not a schedule revision is carried out. The cumulative delay approach to trigger schedule revisions has the following capabilities for the practical decision-making:

1. To reduce frequent schedule revisions which do not necessarily improve a current situation with much expense for its operation;
2. To avoid overreacting to disturbances dependent on strongly an individual shop floor circumstance; and
3. To simplify the monitoring process of a schedule status.

*Online Scheduling in Manufacturing* will be of interest to both practitioners and researchers who work in planning and scheduling in manufacturing. Readers will find the importance of when-to-revise policies during a schedule execution and their influences on scheduling results.

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