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Advanced Reconfigurable Manufacturing System (RMS) Applications

Proposed by:

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Short presentation: Reconfigurable manufacturing system (RMS) is one of the latest manufacturing paradigms. In this paradigm, machine components, machines software's or material handling units can be added, removed, modified or interchanged as needed and when imposed by the necessity to react and respond rapidly and cost-effectively to changing requirements. RMS is regarded as a convenient manufacturing paradigm for variety productions as well as a flexible enabler for this variety. Hence, it is a logical evolution of the two manufacturing systems already used in the industries respectively dedicated manufacturing lines (DML) and flexible manufacturing systems (FMS).

The design, implementation of RMS, as well as the generation of process plans, are the most active research topics in this field. This special session will provide a forum to investigate, exchange novel ideas and disseminate knowledge covering the broad area of RMS applications in nowadays industry. Experts and professionals from academia, industry, and the public sector are invited to submit papers on their recent research and professional experiences on the subject. High quality chapters reporting on relevant reviews of existing literature, theoretical studies, case studies, inter-disciplinary research are all very welcome.

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