

Maintenance and Monitoring with Applications in Process Industry

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5) Organizational unit: Departement Maschinenbau und Verfahrenstechnik, direkt, Institut für Energietechnik, direkt, Kroger, Wolfgang, kroeger@mavt.ethz.ch, LZ=03292

6) Project leader(s):
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7) ETH researcher(s): no entry

8) External researcher(s): no entry

9) Funding source(s):
- Industry

10) Partner organizations: no entry

11) Short Summary: no entry

12) Keywords: Process Control, Safety Technology

13) Project description:

Unplanned interruptions in process plants, caused by failing components can trigger plantdowns or incidents, can be costly and should be avoided. The objective of the project isto minimize overall

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interruption time and to achieve higher production efficiency, by means of advanced preventive periodic and/or condition-based maintenance schemes and of plant monitoring for fault prognosis and diagnosis. To make founded quantitative statements about cost-efficiency of foreseen improvements, it is necessary to extend established system analysis methods, to cope with dynamic behavior and complexity of process plants. Research is concerned with novel hybrid (combined discrete-event and continuous-time) dynamic modeling and simulation for performability (safety, reliability, availability and performance) assessment.

14) Popular description: no entry

15) Graphics: no entry

16) Publications: no entry

17) Links to important web pages: no entry