



Supervision and Safety of Complex Systems (ISTE)

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This book presents results of projects carried out by both scientific and industry researchers into the techniques to help in maintenance, control, supervision and security of systems, taking into account the technical environmental and human factors.

This work is supported by the Scientific Group GIS 3SGS. It is a collaborative work from 13 partners (academic and industrial) who have come together to deal with security problems. The problems and techniques discussed mainly focus on stochastic and dynamic modeling, maintenance, forecasting, diagnosis, reliability, performance, organizational, human and environmental factors, uncertainty and experience feedback.

Part 1. Industrial Issues

1. Safety and Performance of Electricity Production Facilities, Gilles Deleuze, Jean Primet, Philippe Klein, Carole Duval and Antoine Despujols.
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3. Towards Fourth-generation Nuclear Reactors, Jean-Philippe Nabot, Olivier Gastaldi, François Baqué, Kévin Paumel and Jean-Philippe Jeannot.

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Cassar and Komi Midzodzi Pekpe.

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14. Risk Analysis and Management in Systems Integrating Technical, Human, Organizational and Environmental Aspects, Geoffrey Fallet-Fidry, Carole Duval, Christophe Simon, Eric Levrat, Philippe Weber and Benoît Jung.

15. Integrating Human and Organizational Factors into the BCD Risk Analysis Model: An Influence Diagram-based approach, Karima Sedki,

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