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| Soggetti                | Software engineering<br>Computer logic<br>Special purpose computers<br>Application software<br>Computers<br>Software Engineering<br>Logics and Meanings of Programs<br>Special Purpose and Application-Based Systems<br>Computer Appl. in Administrative Data Processing<br>Computation by Abstract Devices<br>Conference proceedings.   |
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| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Note generali           | International conference proceedings.  |
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| Nota di contenuto       | Real-Time Specification Patterns and Tools -- Automated Extraction of Abstract Behavioural Models from JMS Applications -- Certifying and Reasoning on Cost Annotations in C Programs.- Waiting for Locks: How Long Does It Usually Take? -- Microcontroller Assembly Synthesis from Timed Automaton Task Specifications.- Tool Chain to Support Automated Formal Verification of Avionics Simulink Designs -- Range Analysis of Binaries with Minimal Effort -- Combining Analyses for C Program Verification -- Model Checking the FlexRay Startup Phase -- Model-Based Risk Assessment Supporting Development of HSE Plans for Safe Offshore Operations -- Modular Automated Verification of Flexible Manufacturing Systems with Metric Temporal Logic and Non- |

Standard Analysis.- Optimizing the Robustness of Software against Communication Latencies in Distributed Reactive Embedded Systems -- A Formal Design of a Tool for Static Analysis of Upper Bounds on Object Calls in Java -- Checking Properties Described by State Machines: On Synergy of Instrumentation, Slicing, and Symbolic Execution. .

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Sommario/riassunto

This book constitutes the proceedings of the 17th International Workshop on Formal Methods for Industrial Critical Systems, FMICS 2012, held in Paris, France, in August 2012. The 14 papers presented were carefully reviewed and selected from 37 submissions. The aim of the FMICS workshop series is to provide a forum for researchers who are interested in the development and application of formal methods in industry. It also strives to promote research and development for the improvement of formal methods and tools for industrial applications.

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