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Nota di contenuto	Invited Papers -- Instance Deadlock: A Mystery behind Frozen Programs -- Some Thoughts on Behavioral Programming -- Petri Nets with Localities and Testing -- A Perspective on Explicit State Space Exploration of Coloured Petri Nets: Past, Present, and Future -- Full Papers -- Can Stubborn Sets Be Optimal? -- Efficient Computation of Causal Behavioural Profiles Using Structural Decomposition -- Canonical Transition Set Semantics for Petri Nets -- A Characterization of Combined Traces Using Labeled Stratified Order Structures -- Integrated Process Planning and Supply Chain Configuration for

Commodity Assemblies Using Petri Nets -- The NEO Protocol for Large-Scale Distributed Database Systems: Modelling and Initial Verification -- Factorization Properties of Symbolic Unfoldings of Colored Petri Nets -- Forward Analysis for Petri Nets with Name Creation -- Learning Workflow Petri Nets -- Process Mining from a Basis of State Regions -- Separability in Persistent Petri Nets -- New Algorithms for Deciding the Siphon-Trap Property -- Tool Papers -- AIPiNA: A Symbolic Model Checker -- Wendy: A Tool to Synthesize Partners for Services -- GreatSPN Enhanced with Decision Diagram Data Structures -- PNML Framework: An Extendable Reference Implementation of the Petri Net Markup Language.

Sommario/riassunto

This volume consists of the proceedings of the 31th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency (PETRI NETS 2010). The Petri Net conferences serve as annual meeting places to discuss the progress in the field of Petri nets and related models of concurrency. They provide a forum for researchers to present and discuss both applications and theoretical developments in this area. Novel tools and substantial enhancements to existing tools can also be presented. The satellite program of the conference comprised five workshops and three tutorials. This year, the conference was co-located with the 10th International Conference on Application of Concurrency to System Design (ACSD 2010). The two conferences shared five invited speakers. Detailed information about PETRI NETS 2010 can be found at <http://petrinets2010.di.uminho.pt>. The PETRI NETS 2010 conference was organized by the Universidade do Minho and the Instituto Politecnico de Beja. It took place in Braga, Portugal during June 21-25, 2010. We would like to express our deepest thanks to the Organizing Committee, chaired by Joao M. Fernandes, for the time and effort invested in the conference and for all the help with local organization. We are also grateful for the financial support by Centro de Ciencias e Tecnologias de Computacao. This year the number of submitted papers amounted to 50, which included 43 full papers and 7 tool papers. The authors of the papers come from 20 different countries. We thank all the authors who submitted their papers.
