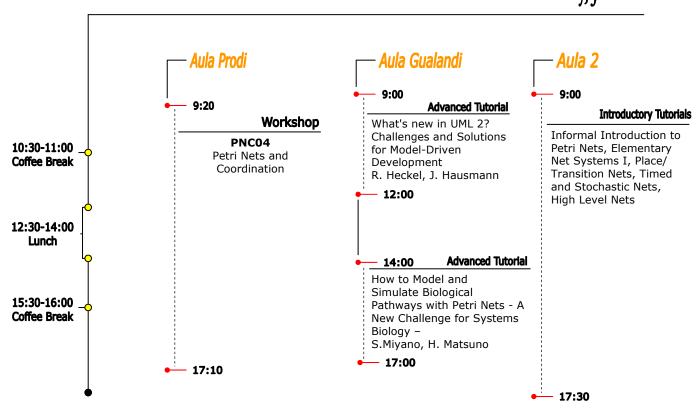
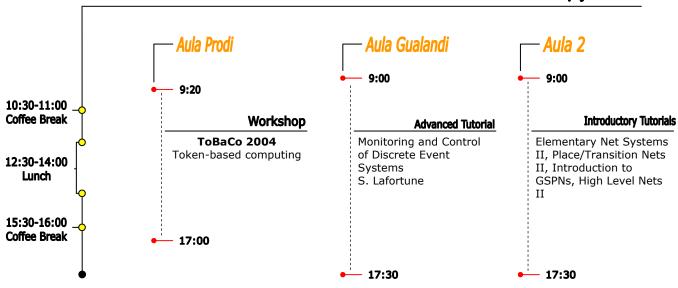


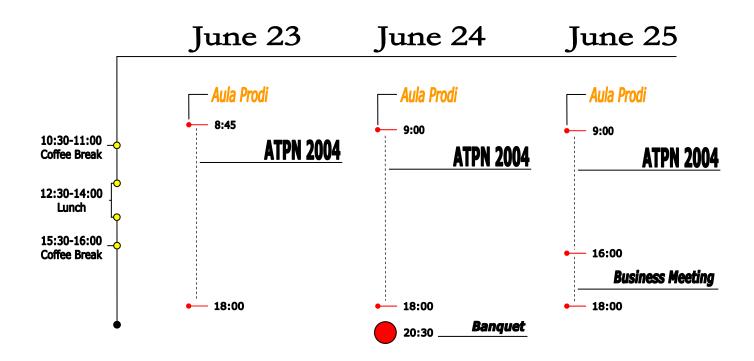
Monday, June 21

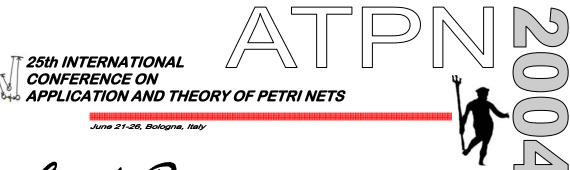


Events Program 2/3

Tuesday, June 22

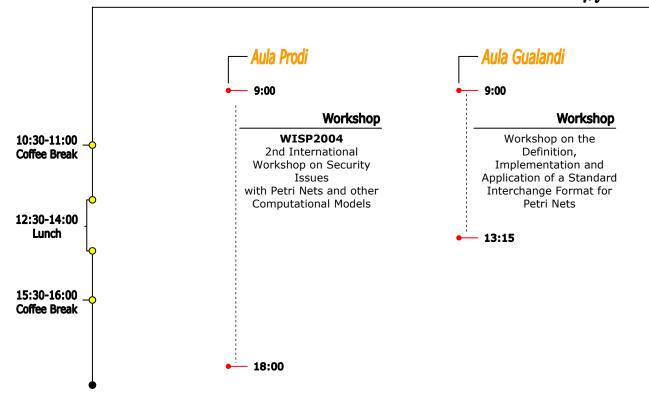






Events Program 3/3

Saturday, June 26





Organizers:

Laura Bocchi, University of Bologna, Italy Paolo Ciancarini, University of Bologna, Italy

First International Workshop on Coordination and Petri Nets

9:20-9:30 Opening

9:30-10:00 A Formal Component-Oriented Design Language for Building Distributed System Mathieu Buffo and Didier Buchs

10:00-10:30 Workflow as Composition of Domain-Specific Languages F. Corradini, E. Merelli, and A. Pierantonio

10:30-11:00 Coffee Break

11:00-11:30 A Process Algebra View of Coordination Models with a Case Study in Computational System Biology Roberta Amici, Flavio Corradini, and Emanuela Merelli

11:30-12:00

Discovering Coordination Patterns using Process Mining W.M.P. van der Aalst

1**2:00-12:30** Brainstorming

12:30-14:00 Lunch

14:00-14:30 A Colored Petri Net for Regional Synchronization in Situated Multi-Agent Systems

Danny Weyns and Tom Holvoet

14:30-15:00 Coordination of Mobile Agents: The Bucket Chain-Example Michael Kohler and Heiko Rolke

15:00-15:30 Describing Coordination Mechanism of Autonomous Distributed Systems by using Multi Agent Nets Toshiyuki Miyamoto and Sadatoshi Kumagai

15:30-16:00 Coffee Break

16:00-16:30 Exploiting Petri Nets in the Analysis of the Expressiveness of Publish/Subscribe Coordination

Nadia Busi and Gianluigi Zavattaro

16:30-17:00 Verifying Workflow Nets by Model Checking and Abstraction Dan Cristian Marinescu, Freucio Laurentiu Tiplea, and Chuang Lin

)17:00-17:10 Closure



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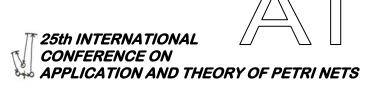
Organizers:
Jordi Cortadella,

Universitat Politecnica de Catalunya, Barcelona, Spain University of Newcastle upon Tyne, UK

Workshop on Token-based computing

Aula Prodi **9:20-9:30** Opening 9:30-10:30 Invited Talk: Token-based computing on nanometer scales Dr. Ferdinand Peper 10:30-11:00 Coffee Break 11:00-11:30 Modelling and Analysis of Self-Timed Cellular Automata Using High-Level Petri Nets O. Penttinen 11:30-12:00 Interactive Behavious of Multi-Component Systems J. Carmona and H.C.M. Kleijn 12:30-14:00 Lunch Decomposition-based Calculation of Petri net Invariants 14:00-14:30 A Software Power Cost Analysis based D.A. Zaitsev on Colored Petri Net M. Oliveira Júnior, P. Marciel, F. Carvalho and R. Barreto 15:30-16:00 Coffee Break **14:30-15:00** Reduction in synchronization in bundled data systems 16:00-16:30 From Hardware Processes to Asynchro-C.F. Brej and J.D. Garside nous Circuits via Petri nets: an Application to Arbiter Design M. Renaudin and A. Yakovlev 15:00-15:30 A Standard Cell Implementation of a Phased Logic CPU Gate Transfer Level Synthesis as an R.B. Reese, M.A. Thornton 16:30-17:00 Automated Approach to and C. Traver Fine-Grain Pipelining A. Smirnov, A. Taubin, M. Karpovsky and L. Rozenblyum

17:00-17:10 Closure



ATPN 2004

8:45-9:00 Welcome and Opening

9:00-10:00 Invited talk - *Embedded Software:*Better Models, Better Code
Thomas A. Henzinger

10:00-10:30 Time Petri Nets with Inhibitor Hyperarcs. Formal Semantics and State Space Computation
Olivier H. Roux and Didier Lime

12:30-14:00 Lunch

14:00-15:00 Invited talk - Stochastic Methods for Dependability, Performability, and Security Evaluation
William H. Sanders

Tool presentation - An Extensible Editor and Simulation Engine for Petri Nets:
Renew
Olaf Kummer, Frank Wienberg,
Michael Duvigneau, Jörn Schumacher,
Michael Köhler, Daniel Moldt,

Heiko Rölke and Rüdiger Valk

Program

Aula Prodi

10:30-11:00 Coffee Break

11:10-11:30 New Canonical Representative Marking Algorithms for Place/Transition-Nets Tommi A. Junttila

11:30-12:10 Finit Unfoldings of Unbounded Petri Nets
Joerg Desel, Gabriel Juhas and
Christian Neumair

12:00-12:30 Operation Net System: A Formal Design Representation Model for High-Level Synthesis of Asynchronous Systems based on Transformations Dong-Hoon Yoo, Dong-Ik Lee and Jeong-A Lee

15:30-16:00 Coffee Break

17:30-18:00

)16:10-16:30 Tool presentation - EMIT: A process mining tool
Boudewijn Van Dongen and
Wil Van der Aalst

16:30-17:00 Tool presentation - Web Supported Enactment of Petri-Net Based Workflows with XRL/flower Alexander Norta

17:00-17:30 Tool presentation - 3D-Visualization of Petri Net Models: A concept
Ekkart Kindler

Tool presentation - An Approach to Distributed State Space Exploration for Coloured Petri Nets Lars Kristensen and Laure Petrucci



ATPN 2004

9:00-10:00 Invited talk - Reachability Set Generation for Petri Nets: Can Brute Force Be SMART? Gianfranco Ciardo

10:00-10:30 Synthesis of Controlled Behavior with Modules of Signal Nets Gabriel Juhas, Robert Lorenz and Christian Neumair

12:30-14:00 Lunch

system development Lucia Pomello

15:00-15:30 Edward Ochmañski Covering Fairness against Conspiracies

15:30-16:00 Coffee Break

16:00-16:30 Transit case study Eric Verbeek and Robert van der Toorn 10:30-11:00 Coffee Break

11:00-11:30 Petri Net Based Model Validation in Systems Biology Monika Heiner and Ina Koch

11:30-12:00 Qualitative Modelling of Genetic Networks: From Logical Regulatory Graphs to Standard Petri Nets Claudine Chaouiya, Elisabeth Remy, Paul Ruet and Denis Thieffry

12:00-12:30 Modeling and Analysis of Margolus Quantum Cellular Automata Using Net-Theoretical Methods Leo Ojala, Olli-Matti Penttinen and Elina Parviainen

16:30-17:00 Infinity of Intermediate States is Decidable for Petri Nets Harro Wimmel

17:00-17:30 Generalised Soundness of Workflow Nets is Decidable Kees van Hee, Natalia Sidorova and Marc Voorhoeve

17:30-18:00 Properties of Object Petri Nets Michael Köhler and Heiko Rölke

20:30 Banquet

The banquet will take place at the Cantina Bentivoglio which is situated in via Mascarella 4/B



ATPN 2004

June 25

9:00-10:00 Invited talk - Specification and Model Checking of Temporal Properties in Time Petri Nets and Timed Automata Wojciech Penczek

10:00-10:30 LTL Model Checking for Modular Petri Nets Timo Latvala and Marko Mäkelä

12:30-14:00 Lunch

in Petri Nets Roberto Gorrieri

15:00-15:30 A Framework for the Modelling and Simulation of Distributed Transaction Processing Systems using Coloured Petri Nets M.Jose Polo Martin, Luis A. Miguel Quintales and Maria N. Moreno Garcia

10:30-11:00 Coffee Break

11:00-11:30 Composition of temporal logic specifications Adrianna Alexander

11:30-12:00 Compositional modeling of complex systems: contact center scenarios in OsMoSys

Giuliana Franceschinis, Marco Gribaudo,

Mauro Iacono, Stefano Marrone, Nicola Mazzocca and Valeria Vittorini

12:00-12:30 Eliminating Internal Behaviour in Petri Nets Harro Wimmel

15:30-16:00 On the use of Coloured Petri Nets for Object Oriented Design Joao Paulo Barros and Luis Gomes

16:M-18:M Business meeting





Organizers:

Organizers:
Nadia Busi, University of Bologna, Italy
Roberto Gorrieri, University of Bologna, Italy
Fabio Martinelli, National Research Council, O

2nd International Workshop on Security Issues with Petri Nets and other Computational Models Program Aula Prodi June 26

)8:50-9:00 Welcome

9:00-10:00 Invited Talk: Events in security protocols

Glynn Winskel

10:00-10:30 Modelling non-deducibility using Petri nets

Jeremy Bryans, Maciej Koutny,

Peter Ryan

12:30-14:00 Lunch

Pierpaolo Degano

15:00-15:30 A formal approach for the evaluation of network security mechanisms based on RBAC policies

Romain Laborde, Frederic Grasset, Bassem Nasser, Francois Barrere, Abdelmalek Benzekri

10:30-11:00 Coffee Break

11:00-12:30 Panel: Security Research in the NIS Countries and Opportunities for joint Cooperation with EU

I.Kotenko, F. Massacci, E.Pogossian,

A.Procopio

15:30-16:00 Coffee Break

16:00-16:30 Analysing Password Protocol Security Against Off-line Dictionary Attacks (Extended Abstract) Ricardo Corin, Jeroen Doumen, Sandro Etalle

16:30-17:0 A Coordination-based Methodology for Security Protocol Verification Giacomo Baldi, Andrea Bracciali, Gianluigi Ferrari, Emilio Tuosto

17:00-17:30 Process Mining and Security: Detecting Anomalous Process Executions and Checking Process Conformance Wil van der Aalst, Ana Karla Alves de Medeiros

17:30-18:00 Hybrid Workflow and Bayesian Networks to Correlate Information in the Protection of Large Scale Critical Infrastructures John Bigham, Xuan Jin, David Gamez



Workshop on the Organizer: Ekkart Kindler, Universitation Definition, Implementation and Application of a Standard Interchange Format for Petri Nets

9:00-9:05 Opening

9:05-9:35 An Interchange Format for Stochastic Activity Networks Based on the PNML M. Abdollahi Azgomi and A. Movaghar

9:35-10:05 Applying Petri Nets to Systems Biology using XML Technologies O. Shaw, A. Koelmans, J. Steggles and A. Wipat

10:05-10:35 From PNML to counter systems for accelerating Petri Nets with FAST S. Bardin and L. Petrucci

Program Aula Gualandi
June 26

10:35-11:00 Coffee Break

Support for Model Construction and Modification

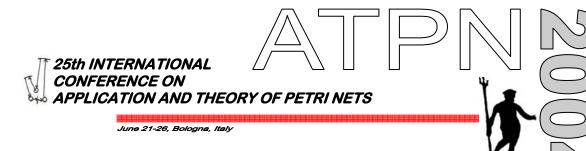
J. P. Barros and L. Gomes

11:30-12:00 Process model repositories and PNML K.M. van Hee, R.D.J. Post, L.J.A.M. Somers and J.M.E.M van der Werf

12:00-12:30 Towards a High-level Petri Net Type Definition

M. Westergaard

12:30-13:15 Discussion



Tutorials

Aula Gualandi

Introductory Tutorial

Informal Intro-9:00duction to Petri W. Reisig 9:30 Nets 9:30-Elementary Net J. Kleijn 10:30 Systems I 10:30-Coffee break 11:00 Elementary Net 11:00- Systems I G. Rozenberg 11:30 (cont.) 11:30- Place/Transition J. Desel, 12:30 Nets I K. Schmidt 12:30-Lunch 14:00 Place/Transition 14:00-J. Desel, Nets I (cont.) 14:30 K. Schmidt 14:30- Timed and Sto-S. Donatelli 15:30 chastic Nets 15:30-Coffee break 16:00 16:00-High Level Nets K. Jensen 17:30

Introductory Tutorial

9.00- Elementary Net

	ementary Net /stems II	J. Kleijn
10.30- 11:00 Co	offee break	
	ace/Transition ets II	M. Silva
12:30- 14:00 Lu	ınch	
	troduction to SPNs	S. Donatelli
15:00- Hi 15:30 II	gh Level Nets	K. Jensen
15:30- 16:00 Co	offee break	
	gh Level Nets (cont.)	K. Jensen

Advanced Tutorial

Monitoring and Control of Discrete Event Systems S. Lafortune

09:00 - 10:00	Discrete Event System (DES), Formal Langua- ges, Automata and Petri Nets
10:00 - 10:30	Monitoring Problems for DES Modeled by Automata and Petri Nets
10:30 - 11:00	Coffee break
11:00 - 12:30	Monitoring Problems for DES Modeled by Auto- mata and Petri Nets
12:30 - 14:00	Lunch
14:00 - 15:30	Supervisory Control of DES
15:30 - 16:00	Coffee break
16:00 - 17:00	Supervisory Control of DES
17:00 - 17:30	Summary and Current Research Directions