

Sunday – 19.06.2016

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|-------|-------|---|-------|-------|--|
| 9:30 | 11:00 | [S2] Petri Net Course: Jetty Kleijn, Basic Net Classes (Part I) | 14:30 | 16:00 | [S2] Petri Net Course: Lars Kristensen, Coloured Petri Nets I (Part I) |
| 11:00 | 11:30 | Break | 16:00 | 16:30 | Break |
| 11:30 | 13:00 | [S2] Petri Net Course: Jetty Kleijn, Basic Net Classes (Part II) | 16:30 | 18:00 | [S2] Petri Net Course: Lars Kristensen, Coloured Petri Nets I (Part II) |
| 13:00 | 14:30 | Lunch | | | |

Monday – 20.06.2016

| | | Petri Net Course [S2] | BioPPN [S4] | PNSE [Aula] | ATAED [S3] |
|-------|-------|---|--|---|---|
| 8:45 | 9:00 | | | | |
| 9:00 | 10:15 | [S2] Petri Net Course: Lars Kristensen, Coloured Petri Nets II (Part I) | | [Aula] PNSE: Session 1 Opening <ul style="list-style-type: none"> Thomas Wagner, Daniel Moldt, Michael Köhler-Bußmeier (short): From eHornets to Hybrid Agent and Workflow Systems Camille Coti, Charles Lakos, Laure Petrucci (short): Formally Proving and Enhancing a Self-Stabilising Distributed Algorithm Toshiyuki Miyamoto (short): CSCB Tools: A Tool to Synthesize Pareto Optimal State Machine Models from Choreography Using Petri Nets Jan Hicken, Michael Haustermann, Daniel Moldt (short): Refining the Quick Fix for the Petri Net Modeling Tool Renew | |
| 10:15 | 10:30 | Break | | | |
| 10:30 | 10:45 | Break | | Break | |
| 10:45 | 11:00 | [S2] Petri Net Course: Lars Kristensen, Coloured Petri Nets II (Part II) | | | |
| 11:00 | 12:15 | | | [Aula] PNSE: Session 2 <ul style="list-style-type: none"> Ramchandra Phawade: Kleene Theorem for Labelled Free Choice Nets without Distributed Choice Anirban Bhattacharyya, Bowen Li, Brian Randelli: Time in Structured Occurrence Nets Khanh Le, Thang Bui, Tho Quan, Laure Petrucci (short): A Framework for Fast Congestion Detection in Wireless Sensor Networks using Clustering and Petri-Net-based Verification | |
| 12:15 | 12:30 | Lunch | | | |
| 12:30 | 13:45 | | | Lunch | |
| 13:45 | 14:00 | [S2] Petri Net Course: Serge Haddad, Time and Stochastic Petri Nets (Part I) | | [Aula] BioPPN Invited lecture. Andrzej Kierzek : Quasi Steady State Petri Nets | |
| 14:00 | 15:00 | Break | | Break | |
| 15:00 | 15:15 | Break | | | |
| 15:15 | 15:45 | Break | [S4] BioPPN: Session <ul style="list-style-type: none"> Simon Hardy, Mathieu Pagé Fortin (regular paper): Analysis of the Signal Transduction Dynamics Regulating mTOR with Mathematical Modeling, Petri Nets and Dynamic Graphs Christian Rohr (regular paper): Discrete-time leap method for stochastic simulation Dorota Formanowicz, Marcin Radom, Piotr Formanowicz: The influence of IL-18 on the process of atherosclerosis modeled and analyzed by stochastic Petri nets Dorota Formanowicz, Agnieszka Rybarczyk, Piotr Formanowicz: Selected aspects of essential hypertension and cardiovascular disease – modeled and analyzed using timed Petri nets; Weronika Wronowska, Grzegorz Bokota, Michał Kadlof, Jacek Sroka, Maciej Cytowski, Andrzej Kierzek, Dariusz Plewczyński: iCell: Multiscale modelling of breast tumour growth; | [Aula] PNSE: Session 3 <ul style="list-style-type: none"> Irina Lomazova, Vera Ermakova: Verification of Nested Petri Nets Using an Unfolding Approach Admar Ajith Kumar Somappa, Kent Inge Fagerland Simonsen: Model-based Development for MAC Protocols in Industrial Wireless Sensor Networks Moulaye Ndiaye, Jean-François Pétin, Jacques Camerini, Jean-Philippe Georges: Practical Use of Coloured Petri Nets for the Design and Assessment of Distributed Automation System Architectures | Opening ATAED [S3] ATAED: Session 1 <ul style="list-style-type: none"> Pieter De Koninck, Jochen De Weerd: Determining the Number of Trace Clusters: a Stability-based Approach Borja Vázquez-Barreiros, David Chapela, Manuel Mucientes, Manuel Lama Penin : Process Mining in IT Service Management: A Case Study Tonatiuh Tapiia-Flores, Edelma Rodriguez-Perez, Ernesto López-Mellado: Discovering Process Models from Incomplete Event Logs using Conjoint Occurrence Classes |
| 16:45 | 17:15 | | Poster Break | | |
| 17:15 | 18:15 | | | [Aula] PNSE Invited lecture. Gabriele Taenzer : Model-Driven Development of Platform-Independent Mobile Applications | |
| 18:15 | 20:00 | Barbeque at the Faculty courtyard | | | |

Tuesday – 21.06.2016

| | | Advanced Tutorials [S5 + S2] | | PNSE [Aula] | ATAED [S3] | |
|-------|-------|--|--|---|--|--|
| 8:45 | 9:00 | [S5] Advanced Tutorial: Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part I) | [S2] Advanced Tutorial: Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part I) | | | |
| 9:00 | 10:00 | | | [Aula] ATAED Invited lecture. Marco Montali : Marrying data and processes: from model to event data analysis | | |
| 10:00 | 10:15 | | | Break | | |
| 10:15 | 10:30 | Break | | [Aula] PNSE: Session 4 | [S3] ATAED: Session 2 | |
| 10:30 | 10:45 | | | <ul style="list-style-type: none"> Max Friedrich, Daniel Moldt: Introducing Refactoring for Reference Nets Henricus M.W. Verbeek: Decomposed Replay Using Hiding and Reduction | <ul style="list-style-type: none"> Benjamin Meis, Robin Bergenthum, Jörg Desel: Synthesis of Elementary Net Systems with Final Configurations Gabriel Juhas, Robert Lorenz: Synthesis of bounded Petri Nets from Prime Event Structures with Cutting Context | |
| 10:45 | 11:30 | [S5] Advanced Tutorial: Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part II) | [S2] Advanced Tutorial: Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part II) | Break | | |
| 11:30 | 11:45 | | | | | |
| 11:45 | 12:15 | | | [Aula] PNSE: Session 5 | [S3] ATAED: Session 3 | |
| 12:15 | 12:45 | Lunch | | <ul style="list-style-type: none"> Jordan de La Houssaye, Franck Pommereau, Philippe Deniel: Formal Modelling and Analysis of Distributed Storage Systems Ahana Pradhan, Rushikesh Joshi: Distributed Change Region Detection in Dynamic Evolution of Fragmented Processes | <ul style="list-style-type: none"> Sergey Shershakov, Anna Kalenkova, Irina Lomazova: Transition Systems Reduction: Balancing between Precision and Simplicity María Teresa Gómez-López, Diana Borrego Núñez, Josep Carmona, Rafael M. Gasca: Computing Alignments with Constraint Programming: The Acyclic Case | |
| 12:45 | 13:45 | | | Lunch | | |
| 13:45 | 14:00 | [S5] Advanced Tutorial: Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part III) | [S2] Advanced Tutorial: Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part III) | [Aula] PNSE Invited lecture. Yann Thierry-Mieg: Bridging the Gap Between Formal Methods and Software Engineering Using Model-based Technology | | |
| 14:00 | 15:00 | | | | | |
| 15:00 | 15:15 | | | Break | | |
| 15:15 | 15:45 | Break | | [Aula] PNSE: Session 6 | [S3] ATAED: Session 4 | |
| 15:45 | 16:15 | [S5] Advanced Tutorial: Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part IV) | [S2] Advanced Tutorial: Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part IV) | <ul style="list-style-type: none"> Alban Linard, Benoît Barbot, Didier Buchs, Maximilien Colange, Clément Démoulin, Lom Hillah, Alexis Martin (short): Layered Data: a Modular Formal Definition without Formalisms Michael Simon, Daniel Moldt: Extending Renew's Algorithms for Distributed Simulation Antti Valmari, Henri Hansen: Stubborn Set Intuition Explained | <ul style="list-style-type: none"> Eike Best, Kamila Barylska: Properties of Plain, Pure, and Safe Petri Nets - with some Applications to Petri Net Synthesis Julius Holderer, Josep Carmona, Günter Müller: Security-Sensitive Tackling of Obstructed Workflow Executions | |
| 16:15 | 16:30 | | | Closing PNSE | | Break |
| 16:30 | 16:45 | | | Break | | |
| 16:45 | 17:00 | | | Break | | [S3] ATAED: Session 5 |
| 17:00 | 17:15 | | | Break | | <ul style="list-style-type: none"> Gert Janssenswillen, Benoît Depaire, Toon Jock: Calculating the Number of Unique Paths in a Block-Structured Process Model Edelma Rodríguez Pérez, Tonatiah Tapia Flores, Ernesto López Mellado: Identification of Timed Discrete Event Processes. Building Input-Output Petri Net Models |
| 17:15 | 17:45 | | | [Aula] Model Checking Contest | Closing ATAED | |
| 17:45 | 18:30 | | | | | |
| 18:30 | 18:45 | | | | | |
| 18:45 | 22:00 | Steering Committee meeting and dinner | | | | |

| Wednesday – 22.06.2016 | | | |
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| | | Petri Nets [Aula] | ACSD [S9] |
| 8:45 | 9:15 | [Hall] Registration | |
| 9:15 | 9:45 | [Aula] Opening | |
| 9:45 | 10:45 | [Aula] Invited lecture. Manfred Broy : From Actions, Transactions, and Processes to Services | |
| 10:45 | 11:15 | Break | |
| 11:15 | 12:45 | [Aula] Petri Nets (Petri Nets Synthesis) <ul style="list-style-type: none"> Eike Best, Evgeny Erofeev, Uli Schlachter and Harro Winkel: Characterising Petri Net Solvable Binary Words Eike Best and Raymond Devillers: The Power of Prime Cycles Uli Schlachter: Petri Net Synthesis in Restricted Classes of Nets | |
| 12:45 | 14:15 | Lunch | |
| 14:15 | 15:15 | [Aula] Invited lecture. Philip Wadler : The Inevitable Coincidence: A Basis For Concurrency and Distribution | |
| 15:15 | 15:45 | Break | |
| 15:45 | 17:15 | [Aula] Petri Nets (Tools) <ul style="list-style-type: none"> Lawrence Cabac, Michael Hausermann and David Mosteller: Renew 2.5 – Towards a Comprehensive Integrated Development Environment for Petri Net - Based Applications Jacek Sroka, Andrzej Kierzek and Wojciech Ptak: AB-QSSPN: Integration of agent-based simulation of cellular populations with quasi-steady state simulation of genome scale intracellular networks András Vörös, Dániel Darvas, Vince Molnár, Attila Klenik, Ákos Hajdu, Attila Jámbor, Tamas Bartha and Istvan Majzik: PetriDotNet 1.5: Extensible Petri Net Editor and Analyser for Education and Research | [S9] ACSD (Temporal Logics) <ul style="list-style-type: none"> Ferenc Bujtor and Walter Vogler: ACTL for Modal Interface Automata Hanna Kludel, Maciej Koutny and Ben Moszkowski: From Petri Nets with Shared Variables to ITL Martijn Hendriks, Marc Geilen, Amir R. B. Behrouzian, Twan Basten, Hadi Alizadeh and Dip Goswami: Checking Metric Temporal Logic with TRACE (tool paper) |
| 19:00 | 21:00 | Welcome Party in Artus Mansion | |

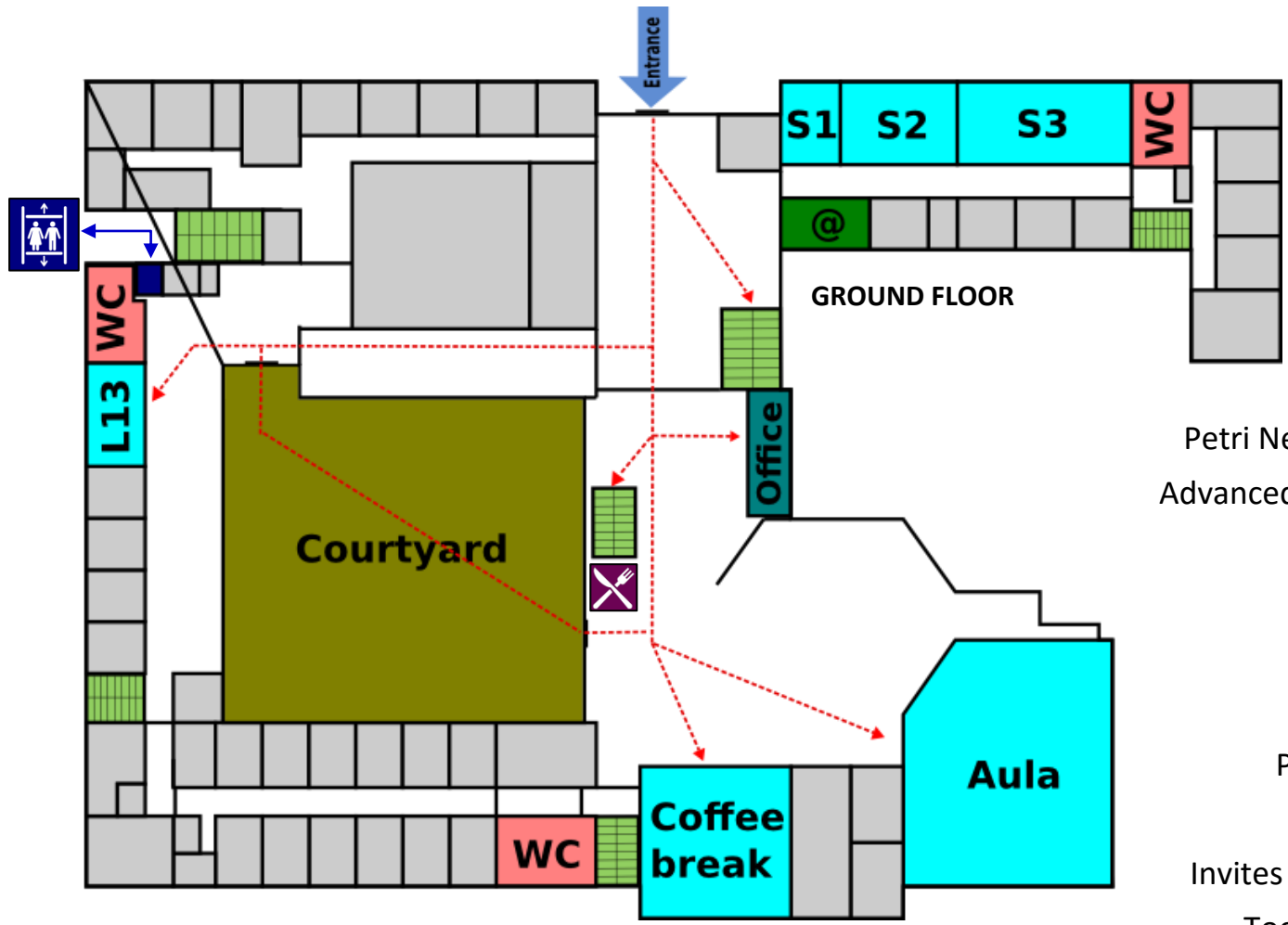
| Thursday – 23.06.2016 | | | |
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| | | Petri Nets [Aula] | ACSD [S9] |
| 9:00 | 10:00 | [Aula] Distinguished Carl Adam Petri Lecture. Ian Foster : Reasoning About Discovery Clouds | |
| 10:00 | 10:30 | Break | |
| 10:30 | 11:30 | [Aula] Petri Nets (Applications I) <ul style="list-style-type: none"> Lars Kristensen and Vegard Veiset: Transforming CPN Models into Code for TinyOS: A Case Study of the RPL Protocol Loic Helouet and Karim Kecir: Realizability of Schedules by Stochastic Time Petri Nets with Blocking Semantics | [S9] ACSD (Compositionality and Synthesis) <ul style="list-style-type: none"> Antti Valmari: The Congruences Below Fair Testing with Initial Stability Juliana Bowles, Behzad Bordbar and Mohammed Alwanain: Weaving True-Concurrent Aspects using Constraint Solvers |
| 11:30 | 11:45 | Break | |

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| 11:45 | 12:45 | [Aula] Petri Nets (Applications II) <ul style="list-style-type: none"> Franck Pommereau: ABCD: a user-friendly language for formal modelling and analysis Quentin Gaudel, Pauline Ribot, Elodie Chantry and Matthew Daigle: Health Monitoring of a Planetary Rover Using Hybrid Particle Petri Nets | [S9] ACSD (Verification) <ul style="list-style-type: none"> Étienne André, Michal Knapik, Wojciech Penczek and Laure Petrucci: Controlling Actions and Time in Parametric Timed Automata Ondřej Meca, Stanislav Böhm, Marek Běhálék and Petr Jančar: An Approach to Verification of MPI Applications Defined in a High-Level Model |
| 12:45 | 14:15 | Lunch | |
| 14:15 | 15:15 | [L13] Tool session | |
| 15:15 | 16:15 | [Aula] Invited lecture. Jetty Kleijn : On Processes and Paradigms | |
| 16:15 | 16:45 | Break | |
| 16:45 | 17:45 | [Aula] Petri Nets (Conformance checking) <ul style="list-style-type: none"> Eric Verbeek and Wil van der Aalst: Merging Alignments for Decomposed Replay Thomas Chatain and Josep Carmona: Anti -Alignments in Conformance Checking - The Dark Side of Process Models | [S9] ACSD (System design and Petri nets) <ul style="list-style-type: none"> Raymond Devillers: Products of Transition Systems and Additions of Petri Nets Dennis Schmitz, Daniel Moldt, Lawrence Cabac, David Mosteller and Michael Hausermann: Utilizing Petri Nets for teaching in Practical Courses on Collaborative Software Engineering |
| 17:50 | | [Front Entrance] Group photo | |
| 18:00 | 22:00 | Conference Dinner in the Settlement Osada Karbówko | |

| Friday – 24.06.2016 | | | |
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| | | Petri Nets [Aula] | ACSD [S9] |
| 9:00 | 10:00 | [Aula] Invited lecture. Sławomir Lasota : Decidability Border for Petri Nets With Data: Wqo Dichotomy Conjecture | |
| 10:00 | 10:30 | Break | |
| 10:30 | 12:00 | [Aula] Petri Nets (Time & Stochastic Models) <ul style="list-style-type: none"> Yrvann Emzivat, Benoît Delahaye, Didier Lime and Olivier H. Roux: Probabilistic Time Petri Nets András Vörös, Vince Molnár, Istvan Majzik, Kristóf Marussy, Miklós Telek and Attila Klenik: Efficient decomposition algorithm for stationary analysis of complex stochastic Petri net models S. Akshay, Blaise Genest and Loic Helouet: Timed-Arc Petri Nets with (restricted) Urgency | [S9] ACSD (Hardware I) <ul style="list-style-type: none"> Mohammed A. N. Al-hayanni, Ashur Rafiev, Rishad Shafik and Fei Xia: Power and Energy Normalized Speedup Models for Heterogeneous Many Core Computing Matthew Travers, Rishad Shafik and Fei Xia: Power-Normalized Performance Optimization of Concurrent Many-Core Applications Mahdi Jelodari Mamaghani, Danil Sokolov and Jim Garside: Asynchronous Dataflow De-Elastisation For Efficient Heterogeneous Synthesis |
| 12:00 | 12:15 | Break | |
| 12:15 | 12:45 | [Aula] Petri Nets (Structural Methods) <ul style="list-style-type: none"> Leonid Dworzanski and Irina Lomazova: Structural Place Invariants for Analyzing the Behavioral Properties of Nested Petri Nets | [S9] ACSD (Hardware II) <ul style="list-style-type: none"> Waheed Ahmad, Marijn Jongerden, Mariëlle Stoelinga and Jaco van de Pol: Model Checking and Evaluating QoS of Batteries in MPSoC Dataflow Applications via Hybrid Automata |
| 12:45 | 13:15 | [Aula + Hall] Closing Session | |
| 13:15 | 15:15 | Lunch | |
| 17:00 | | Sightseeing | |

| Saturday – 25.06.2016 | |
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| early morning | Excursion to Malbork Castle (separate registration) |

FLOOR PLANS



- Petri Net Course – **S2** (ground floor)
- Advanced Tutorial – **S2** (ground floor)
- **S5** (first floor)
- BioPPN – **S4** (first floor)
- PNSE – **AULA** (ground floor)
- ATAED – **S3** (ground floor)
- Petri Nets – **AULA** (ground floor)
- ACSD – **S9** (second floor)
- Invites speakers – **AULA**
- Tool session – **L13**

