Sunday – 19.06.2016

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	**[S2] Petri Net Course**: Lars Kristensen, Coloured Petri Nets II (Part I)			
9:00	10:15			**[Aula] PNSE:** Session 1 Opening • 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	
10:45	11:00	**[S2] Petri Net Course**: Lars Kristensen, Coloured Petri Nets II (Part II)			
11:00	12:15			**[Aula] PNSE:** Session 2 • 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)			
14:00	15:00		**[Aula] BioPPN Invited lecture.** Andrzej Kierzek : Quasi Steady State Petri Nets		
15:00	15:15		Break		
15:15	15:45	Break	**[S4] BioPPN:** Session • 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 • 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 • Pieter De Koninck, Jochen De Weerdt: 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
15:45	16:45	**[S2] Petri Net Course**: Serge Haddad, Time and Stochastic Petri Nets (Part I)			
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

<table>
<tr><th colspan="2"></th><th colspan="2">Advanced Tutorials [S5 + S2]</th><th>PNSE [Aula]</th><th>ATAED [S3]</th></tr>
<tr><td>8:45</td><td>9:00</td><td rowspan="2">[S5] Advanced Tutorial:
Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part I)</td><td rowspan="2">[S2] Advanced Tutorial:
Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part I)</td><td></td><td></td></tr>
<tr><td>9:00</td><td>10:00</td><td colspan="2">[Aula] ATAED Invited lecture. Marco Montali : Marrying data and processes: from model to event data analysis</td></tr>
<tr><td>10:00</td><td>10:15</td><td colspan="2">Break</td></tr>
<tr><td>10:15</td><td>10:30</td><td colspan="2" rowspan="2">Break</td><td rowspan="2">[Aula] PNSE: Session 4
• Max Friedrich, Daniel Moldt: Introducing Refactoring for Reference Nets
• Henricus M.W. Verbeek: Decomposed Replay Using Hiding and Reduction</td><td rowspan="2">[S3] ATAED: Session 2
• 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</td></tr>
<tr><td>10:30</td><td>10:45</td></tr>
<tr><td>10:45</td><td>11:30</td><td rowspan="2">[S5] Advanced Tutorial:
Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part II)</td><td rowspan="2">[S2] Advanced Tutorial:
Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part II)</td><td colspan="2">Break</td></tr>
<tr><td>11:30</td><td>11:45</td><td rowspan="2">[Aula] PNSE: Session 5
• 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</td><td rowspan="2">[S3] ATAED: Session 3
• 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</td></tr>
<tr><td>11:45</td><td>12:15</td></tr>
<tr><td>12:15</td><td>12:45</td><td colspan="2" rowspan="2">Lunch</td></tr>
<tr><td>12:45</td><td>13:45</td><td colspan="2">Lunch</td></tr>
<tr><td>13:45</td><td>14:00</td><td rowspan="2">[S5] Advanced Tutorial:
Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part III)</td><td rowspan="2">[S2] Advanced Tutorial:
Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part III)</td><td colspan="2">[Aula] PNSE Invited lecture. Yann Thierry-Mieg: Bridging the Gap Between Formal Methods and Software Engineering Using Model-based Technology</td></tr>
<tr><td>14:00</td><td>15:00</td><td colspan="2">Break</td></tr>
<tr><td>15:00</td><td>15:15</td><td colspan="2">Break</td><td rowspan="3">[Aula] PNSE: Session 6
• Alban Linard, Benoît Barbot, Didier Buchs, Maximilien Colange, Clément Démoulins, 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
Closing PNSE</td><td rowspan="2">[S3] ATAED: Session 4
• 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</td></tr>
<tr><td>15:15</td><td>15:45</td><td colspan="2">Break</td></tr>
<tr><td>15:45</td><td>16:15</td><td rowspan="3">[S5] Advanced Tutorial:
Etienne Andre, Didier Lime, Wojciech Penczek, Laure Petrucci, Parametric Verification (Part IV)</td><td rowspan="3">[S2] Advanced Tutorial:
Alex Yakovlev, Modelling, Synthesis and Verification of Hardware (Part IV)</td><td>Break</td></tr>
<tr><td>16:15</td><td>16:30</td><td rowspan="3">[Aula] Model Checking Contest</td><td rowspan="3">[S3] ATAED: Session 5
• Gert Janssenswillen, Benoît Depaire, Toon Jouck: Calculating the Number of Unique Paths in a Block-Structured Process Model
• Edelma Rodríguez Pérez, Tonatiuh Tapia Flores, Ernesto López Mellado: Identification of Timed Discrete Event Processes. Building Input-Output Petri Net Models
Closing ATAED</td></tr>
<tr><td>16:30</td><td>16:45</td></tr>
<tr><td>16:45</td><td>17:00</td></tr>
<tr><td>17:00</td><td>17:15</td><td></td><td></td></tr>
<tr><td>17:15</td><td>17:45</td><td></td><td></td><td></td><td></td></tr>
<tr><td>17:45</td><td>18:30</td><td></td><td></td><td></td><td></td></tr>
<tr><td>18:30</td><td>18:45</td><td colspan="4"></td></tr>
<tr><td>18:45</td><td>22:00</td><td colspan="4">Steering Committee meeting and dinner</td></tr>
</table>

Wednesday – 22.06.2016

		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)** • Eike Best,Evgeny Erofeev,Uli Schlachterand Harro Wimmel: 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)** • Lawrence Cabac, Michael Haustermann 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)** • Ferenc Bujtor and Walter Vogler: ACTL for Modal Interface Automata • Hanna Klaudel, 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

		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)** • 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)** • 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	
11:45	12:45	**[Aula] Petri Nets (Applications II)** • Franck Pommereau: ABCD: a user-friendly language for formal modelling and analysis • Quentin Gaudel, Pauline Ribot, Elodie Chanthery and Matthew Daigle: Health Monitoring of a Planetary Rover Using Hybrid Particle Petri Nets	**[S9] ACSD (Verification)** • Étienne André, Michal Knapik, Wojciech Penczek and Laure Petrucci: Controlling Actions and Time in Parametric Timed Automata • Ondřej Meca, Stanislav Böhm, Marek Běhálek 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)** • 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)** • Raymond Devillers: Products of Transition Systems and Additions of Petri Nets • Dennis Schmitz, Daniel Moldt, Lawrence Cabac, David Mosteller and Michael Haustermann: 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	

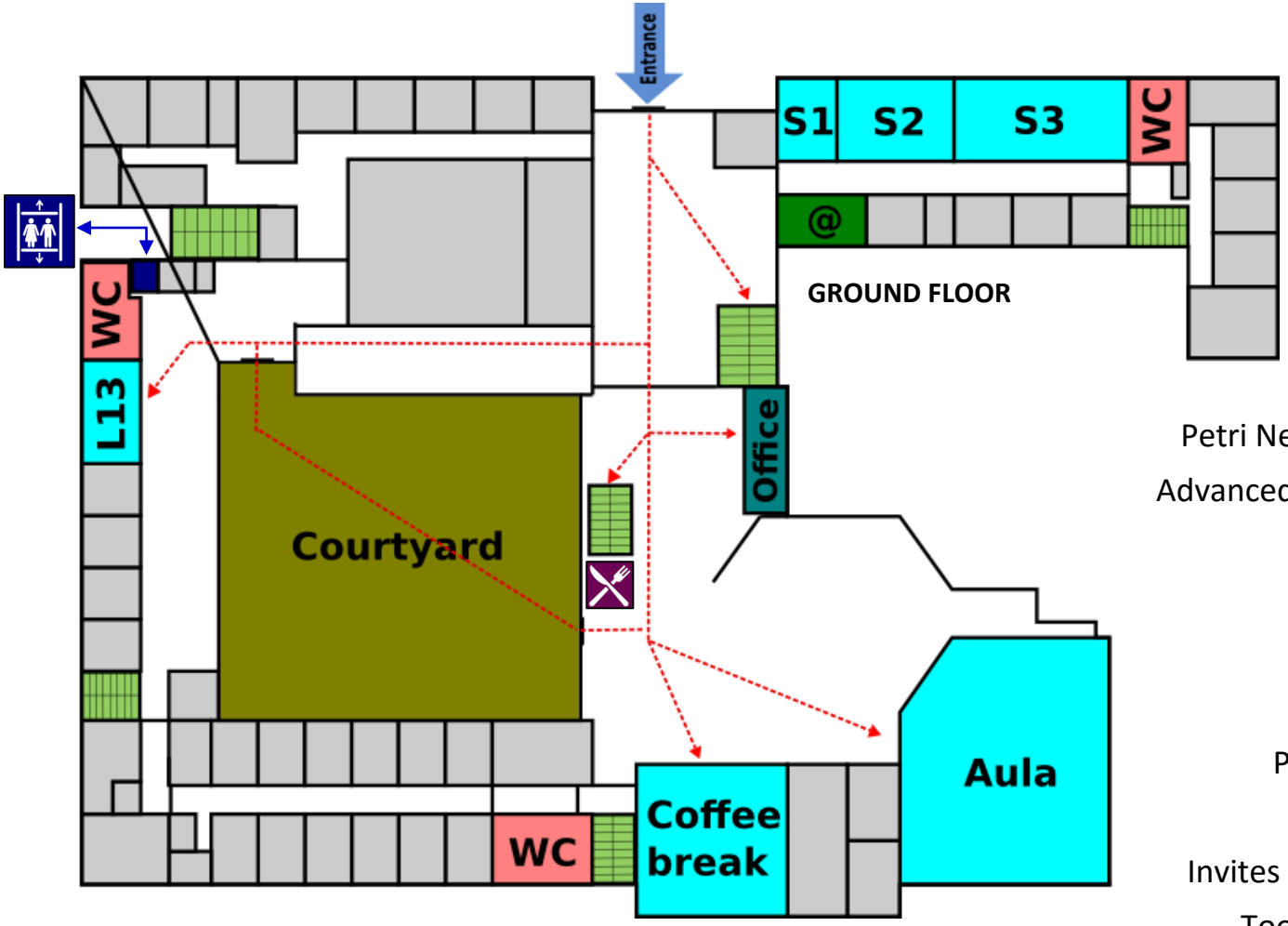
Friday – 24.06.2016

		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)** • 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)** • 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)** • Leonid Dworzanski and Irina Lomazova: Structural Place Invariants for Analyzing the Behavioral Properties of Nested Petri Nets	**[S9] ACSD (Hardware II)** • 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

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**