WODES 2010, Berlin, Germany – Preliminary Programme

Sunday, August 29, 2010 19:00 – 21:00 Welcome Reception & Registration at Café Campus Monday, August 30, 2010 8:00 - 9:00 Registration 9:00 - 9:15 Welcome MoP: 9:15 - 10:15 Plenary: Supervisory Control of Differential Equations (Paulo Tabuada) 10:15 - 10:45 Coffee break MoM1: MoM2: Petri Net-based Techniques Invited Session: Hybrid Systems (Organisers: Magnus Egerstedt and Yorai Wardi) Linear Programming Techniques for Analysis and Control of Batches Petri Nets (Isabel On the Geometry of Switching Manifolds for Autonomous Hybrid Systems (Farzin Taringoo and Demongodin and Alessandro Giua) Peter Caines) Timing-Dependent Boundedness and Liveness in Continuous Petri Nets (Carlos Renato Numerically Stable Approximations of Optimal Control Processes Associated with a Class of Vazquez and Manuel Silva) Switched Systems (Vadim Azhmyakov, Ruben Velazquez and Rosalba Galvan-Guerra) 10:45 – 12:45 An Algorithm to Compute the Minimal Siphons in S⁴PR Nets (Elia E. Cano, Carlos A. Rovetto IPA for Continuous Petri Nets (Alessandro Giua, Carla Seatzu and Yorai Wardi) and Jose-Manuel Colom) SimHPN: a MATLAB Toolbox for Continuous Petri Nets (Jorge Júlvez and Cristian Mahulea) Initial Investigations of Hybrid Thermodynamic Control Systems with Phase Transitions (Dmitry Gromov and Peter E. Caines) Synthesis of Behavioral Controllers for DES: Increasing Efficiency (Kai Bollue, Michaela Slaats Perturbation Analysis of Stochastic Hybrid Systems and Applications to Some Non-Cooperative Games (Chen Yao and Christos G. Cassandras) Erika Ábrahám, Wolfgang Thomas and Dirk Abel) State-Space based Analysis of a Class of Dynamic Petri Nets: a Symbolic Approach (Lorenzo Graph Process Specifications for Hybrid Networked Systems (Philip Twu, Patrick Martin and Capra) Magnus Egerstedt) 12:45 – 14:30 Lunch break MoA1: MoA2: Invited Session: Diagnosis and Diagnosability of Discrete Event Systems (Organisers: Hierarchical Supervisory Control Maria Paola Cabasino and Moamar Sayed Mouchaweh) Hierarchical Multitasking Control of Discrete Event Systems: Computation of Projections and Diagnosability of Labeled Petri Nets via Integer Linear Programming (Francesco Basile, Maximal Permissiveness (Klaus Werner Schmidt, Max Herring de Queiroz and José Eduardo Pasquale Chiacchio, and Gianmaria De Tommasi) Ribeiro Curv) 14:30 - 15:50 A Compositional Approach for Verifying Hierarchical Interface-Based Supervisory Control (Ryan Reduced-Complexity Verification for Initial-State Opacity in Modular Discrete Event Systems Leduc and Robi Malik) (Anooshiravan Saboori and Christoforos N. Hadiicostis) Supremal Normal Sublanguages in Hierarchical Supervisory Control (Jan Komenda and Tomáš Robust Diagnosability of Discrete Event Systems subject to Intermittent Sensor Failures (Lilian Masopust) Kawakami Carvalho, João Carlos Basilio and Marcos Vicente Moreira) Robust Diagnosis of Discrete-Event Systems subject to Permanent Sensor Failures (Saulo Supervisory control based on multi-face modeling of discrete event systems (Gábor Kovács and Telles Lima, João Carlos Basilio, Stéphane Lafortune and Marcos Vicente Moreira) Laurent Piétrac) 15:50 - 16:10 Coffee break MoE2: MoE1: Distributed Estimation and Fault Diagnosis Estimation and Control for Max-Plus and Min-Plus Systems A New Protocol for the Decentralized Diagnosis of Labeled Petri Nets (Maria Paola Cabasino, Alessandro Giua, Andrea Paoli and Carla Seatzu) On Proportional Controller in (Min, +) Algebra (Jean-Louis Boimond and Sébastien Lahaye) Distributed State Estimation for Hybrid and Discrete Event Systems Using I-Complete Trajectory Tracking Control of a Timed Event Graph with Specifications Defined by a P-time Approximations (Jörg Raisch, Thomas Moor, Naim Baicinca, Stephanie Geist and Vladislav Event Graph: On-line and off-line aspects (Philippe Declerck) 16:10 -Nenchev) 17:30/17:50 An Unifving Decision-Making Framework in Discrete-Event Systems: Application to Centralized Max-plus Linear Observer: Application to Manufacturing Systems (Laurent Hardouin, Carlos and Decentralized Control, Diagnosis and Prognosis (Ahmed Khoumsi) Andrey Maia, Bertrand Cottenceau and Rafael Santos Mendes) An Optimized Algorithm for Diagnosability of Component-based Systems (Lina Ye and Philippe Control of cyclically operated High-Throughput Screening Systems (Thomas Brunsch, Laurent Daque) Hardouin and Jörg Raisch) Max-Consensus in a Max-Plus Algebraic Setting: The Case of Switching Communication Topologies (Behrang Monaiemi Neiad, Sid Ahmed Attia and Jörg Raisch)

TuP: TuP: 0:00 - 10:30 Coffee break TuM: Probabilistic Discrete Event Systems 0:00 - 10:30 Coffee break TuM: Probabilistic Discrete Event Systems 0:01 - 10:30 Coffee break TuM: Probabilistic Discrete Event Systems (Vera Pant and Mark Laword). 0:10:01 - 10:30 Control to Stochastic Discrete Event Systems (Shaolong Shu, Zhiqiang An Identification and Sensor Activation for Discrete Event Systems (Shaolong Shu, Zhiqiang And Mark Laword). On Almost-Sure Properties of Probabilistic Discrete Event Systems (Hsu-Chun Yen) 10:30 - 12:30 SIC-Testability of Sequential Logic Controllers (Julien Provost), Jean-Marc Rouseal and Jean- Kare Faure) On the Construction of Probabilistic Diagnosers (Eric Fabre and Log) Jezequel) Archaire Event Systems (Shigemasa Takai) Computation of Paritally Observed Discrete Event Systems (Shigemasa Takai) On the Construction of Probabilistic Diagnosers (Cric Fabre and Log) Jezequel) 12:30 - 14:30 Unch break TuM: Invited Session (Part I): Towards Application of Supervisory Control - from Modeling, Dispervisory Control of Software Execution for Safure Avoidance for Conganisers: Rong Su and Water Murray Wonham) A Rolout Method for Finite-Stage Event Gased Decision Processes (Qing-Shan Jia) 14:30 - 15:50 Supervisory Control of Software Execution for Safure Avoidance for Conganisers: Rong	9.00 - 10:00 Planary: Coordination of Traffic Networks (René Boel) 10:00 - 10:30 Coffee break TuM1: Probabilistic Discrete Event Systems 0:00 - 10:30 Control Control Control of Traffic Networks (René Boel) 10:00 - 10:30 Control Control Control of Traffic Networks (René Boel) 10:00 - 10:30 Control Control Control of Probabilistic Discrete Event Systems (Shaolong Shu, Zhiqiang An Identification and Sensor Activation for Discrete Event Systems (Shaolong Shu, Zhiqiang An Identification of Probabilistic Discrete Event Systems (Shaolong Shu, Zhiqiang Computation of Projections for the Abstraction-based Diagnosability Verification (Klaus Werner Schmidt) On the Construction of Probabilistic Diagnosers (Eric Fabre and Loig Jazequei) 10:30 - 14:30 Computation of Projections for the Abstraction-based Diagnosability Verification (Klaus Werner Schmidt) Computation of Projections for the Abstraction-based Diagnosability Verification (Klaus Werner Schmidt) A Rolout Mattrod for Finite-Stage Event-Based Decision Processes (Qing-Shan Ja) 12:30 - 14:30 Luch break TuA1: TuA2: Modelling and Analysis of Max-Plus Systems 14:30 - 15:50 Supervisory Control for a Fiscible Manufacturing System (Thomas Moor, Klaus Schmidt Bebassian Perk) Contracting Timed Event Graphs (Bour Addad_Sail Analysis of Max-Plus Systems 14:30 - 15:50 Supervisory Control for a Fiscible Manufacturing System (Thomas Moor, Klaus Schmidt Bebasstate Perk) Conternate Perk)<		Tuesday, August 3′	l, 2010	
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Wednesday, September 01, 2010				
	WeP: Plenary: Interfaces for Control Components (Rajeev Alur)			
10:00 – 10:30	Coffee break			
	WeM1: Extensions of Supervisory Control I	WeM2: Invited Session: Max-Plus Algebra and Max-Plus-Linear Systems (Organisers: Laurent Hardouin and Jean-Louis Boimond)		
	Sampled-Data Supervisory Control (Ryan J. Leduc and Yu Wang)	An Approximation Approach for Model Predictive Control of Stochastic Max-Plus Linear Systems (Samira Farahani, Ton van den Boom, Hans van der Weide and Bart De Schutter)		
10:30 – 12:10	Fault-Tolerant Control of Nondeterministic Input/Output Automata subject to Actuator Faults (Yannick Nke and Jan Lunze)	Modeling and Control of Legged Locomotion via Switching Max-Plus Systems (Gabriel A.D. Lopes, Ton J.J. van den Boom, Bart De Schutter and Robert Babuška)		
	Multicriteria Optimal Reconfiguration for Fault-tolerant Real-time Tasks (Emil Dumitrescu, Alain Girault, Hervé Marchand and Eric Rutten)	Asymptotic Throughput of Stochastic Max-Plus Linear Systems (Glenn Merlet)		
	Compositional Nonblocking Verification Using Annotated Automata (Simon Ware and Robi	A Frequency-Domain Approach for Max-Plus Linear Systems (Ying Shang)		
	Netiki)iques for the Parametrization of Discrete-Event System Templates (Lenko Grigorov and Karen Rudie)	Control of Uncertain (max,+)-Linear Systems in order to Decrease Uncertainty (Euriell Le Corronc, Bertrand Cottenceau and Laurent Hardouin)		
12:10 – 13:40	Lunch break			
	WeA1:	WeA2:		
	Extensions of Supervisory Control II	Applications II		
13:40 – 14:40/15:00	Efficient Computation of Observer Projections using OP-Verifiers (Patricia Nascimento Pena, José Eduardo Ribeiro Cury, Robi Malik and Stéphane Lafortune)	Solution of a Multi-Agent Transport Problem by Hybrid Optimization (Herbert Mangesius, Marion Sobotka and Olaf Stursberg)		
	Modular Specification of Forbidden States for Supervisory Control (Patrik Magnusson, Martin Fabian and Knut Åkesson)	Timed Petri Nets Perspective on Weaving Processes (Miryam Barad and Arkady Cherkassky)		
	Supervisory Control for Modal Specications of Services (Philippe Darondeau, Jérémy Dubreil and Hervé Marchand)	Optimal Vendor-Managed Inventory Policies in Distribution Systems with Discrete-Event Processes (Simona Sacone and Silvia Siri)		
	Synthesis of Safe Sublanguages satisfying Global Specification using Coordination Scheme for Discrete-Event Systems (Jan Komenda, Tomáš Masopust and Jan H. van Schuppen)			
15:00 – 15:30	Closing Remarks			
15:30 – 16:00	Coffee break			