

Sat 24 Mar				
9.00-10.30	GT-VMT 9.25-9.30 Opening	WRLA 9.25-9.30 Opening	FICS 9.25-9.30 Opening	
10.30-11.00	Gabriela Taentzer. Generation of Meta Model Instances [Invited talk]	Saddek Bensalem, Ananda Basu, Marius Bozga and Joseph Sifakis. Rigorous System Design: The BIP Approach [Invited talk]	Andreas Abel. Type-Based Termination, Inflationary Fixed-Points, and Mixed Inductive-Coinductive Types [Invited talk]	
11.00-12.30	GT-VMT Anthony Anjorin, Sebastian Oster, Ivan Zoric and Andy Schürr. Optimizing Model-Based Software Product Line Testing with Graph Transformations Tamim Khan, Olga Runge and Reiko Heckel. Visual Contracts as Test Oracle in AGG 2.0	Coffee WRLA Martin Wirsing, Jonas Eckhardt, Tobias Muhlbauer and José Meseguer. Design and Analysis of Cloud-Based Architectures with KLAIM and Maude [Invited talk]	FICS Grigori Mints and Thomas Studer. Cut-Elimination for the mu-Calculus with One Variable Tarmo Uustalu. Structured General Corecursion and Coinductive Graphs	
12.30-14.00		Muhammad Fadlisyah, Peter Csaba Ölveczky and Erika Abraham. Some Like It Very Hot: Formal Modeling and Analysis of Extreme Heat Exposure to the Human Body in Hi-Maude	Anna Ingólfssdóttir and Luca Aceto. Characteristic Formulae for Relations with Nested Fixed Points	
14.00-15.30	GT-VMT Karsten Gabriel, Pascal Lingnau and Claudia Ernel. Algebraic Approach to Timed Petri Nets Alexander Heußner. Towards Model Checking Communicating Processes: Run Graphs, Graph Grammars, and MSO Fenglin Han and Peter Herrmann. Remedy of Mixed Initiative Conflicts in Model-Based System Engineering	Lunch WRLA Raúl Gutiérrez, José Meseguer and Camilo Rocha. Order-Sorted Equality Enrichments Modulo Axioms Elena Tushkanova, Alain Giorgetti, Christophe Ringissen and Olga Kouchmarenko. A Rule-Based Framework for Building Superposition-Based Decision Procedures Roberto Bruni, Andrea Corradini, Alberto Luch Lafuente, Fabio Gadducci, Andrea Vandin. Modelling and Analyzing Adaptive Self-Assembling Strategies with Maude	FICS Luke Ong. Higher-Order Model Checking [Invited talk]	
15.30-16.00			Martin Lange and Etienne Lozes. Model-Checking the Higher-Dimensional Modal mu-Calculus	
16.00-17.30	GT-VMT Niaz Hussein and Reiko Heckel. View-based Modelling and State-Space Generation for Graph Transformation Systems Amir Hossein Ghamarian and Arend Rensink. Graph Passing in Graph Transformation	Coffee WRLA Santiago Escobar. Narrowing in Rewriting Logic and Applications [Invited talk]	FICS Axel Haddad. IO vs OI in Higher-Order Recursion Schemes André Hirschowitz and Marco Maggesi. Initial Semantics for Strengthened Signatures	
		Adrian Riesco. Using Narrowing to Test Maude Specifications		
				Transition to Daylight Saving Time!

# Sun 25 Mar

Sun 25 Mar 9.00-10.30	GTVMT H. J. Sander Bruggink, Mathias Hülsbusch and Barbara König. Towards Alternating Automata for Graph Languages Paolo Bottoni and Francesco Paris-Presce. Modeling Context with Graph Annotations Sonja Walter and Mark Minas. Layout Improvement in Diagram Editors by Automatic Ad-hoc Layout	BX Jean-Luc Hainaut. Bidirectional Transformations in Database Engineering [Invited talk] Jeremy Gibbons and Michael Johnson. Relating Algebraic and Coalgebraic Descriptions of Lenses	WRLA Mark Hills, Paul Klint and Jürgen Vinju. Analyzing PHP Source Code Using Rascal - A Rewriting Logic Perspective [Invited talk] Isabel Pita and Adrian Riesco. Specifying and Analyzing the Kademlia Protocol in Maude	FIT 9.00-9.45 José Luiz Fiadairo. An Interface and Component Algebra for Service-Oriented Design [Invited talk] 9.45-10.30 Karsten Wolf. Show Me Your Friends and I Tell You Who You Are [Invited talk]	IMGP 9.00-9.45 Yoshifumi Manabe and Tatsuaki Okamoto. A Cryptographic Moving-Knife Cake-Cutting Protocol 9.45-10.30 Sujata Ghosh, Thiri Haymar Kyaw, Sumit Sourabh and Rineke Verbrugge. Computing Nash Equilibrium in Wireless Ad Hoc Networks: A Simulation-Based Approach	MBT 9.25-9.30 Opening Ina Schieferdecker. Model-Based Security Testing [Invited talk]	MSFP Neil Ghani. Fibred Data Types [Invited talk] Chris Casinghino, Vilhelm Sjöberg and Stephanie Weirich. Step-Indexed Normalization for a Language with General Recursion	VSSE 9.00-9.45 PINCETTE Project Team. Verification of Evolving Systems 9.45-10.30 Alastair Donaldson. Finding Races in Evolving Concurrent Programs Through Check-in Driven Analysis
10.30-11.00 11.00-12.30	GTVMT Christine Natschläger and Klaus-Dieter Schewe. A Flattening Approach for Attributed Type Graphs with Inheritance in Algebraic Graph Transformation Arash Jalali, Amir Hossein Ghaharian and Arend Rensink. Incremental Pattern Matching for Regular Expressions Discussion	BX Hugo Pacheco, Alcino Cunha and Zhenjiang Hu. Delta Lenses over Inductive Types Vadim Zaytsev. Language Evolution, Metasyntactically	WRLA Daniela Lepri, Erika Abraham and Peter Csaba Ólveczky. Timed CTL Model Checking in Real-Time Maude Kyungmin Bae and José Meseguer. Model Checking LTL Formulas under Localized Fairness	FIT Salvatore La Torre, P. Madhusudan and Gemmaro Parlato. Sequentializing Parameterized Programs Oana Andrei, Muffy Calder and Alice Miller. Role-Based Interface Automata	IMGP 11.00-11.45 Simon Bursard and Charles Pecheur. Rich Counter-Examples for Temporal-Epistemic Logic Model Checking 11.45-12.30 Sven Jacobs. SMT-Based Reactive Synthesis [Invited talk]	MBT Jan Olaf Blech, Dongyue Mou and Daniel Rădu Reusing. Test-Cases on Different Levels of Abstraction in a Model Based Development Tool Bernhard Aichernig and Elisabeth Joebstl. Towards Symbolic Model-Based Mutation Testing. Combining Reachability and Refinement Checking Dirk Richter and Christian Berg. Exact Gap Computation for Code Coverage Metrics in ISO-C	MSFP Mauro Jaskelioff and Ondrej Rypáček. An Investigation of the Laws of Traversals Tomas Petricek. Evaluation Strategies for Monadic Computations Maciej Piróg and Jeremy Gibbons. Tracing Monadic Computations and Representing Effects	VSSE 11.00-11.45 Shuvendu K. Lahiri: SyntDiff: Leveraging and Extending Program Verification Techniques for Comparing Programs 11.45-12.30 Ofer Strichman. Regression Verification for Multi-Threaded Programs
12.30-14.00	Lunch							
14.00-15.30	GTVMT + BX Juan de Lara. Bidirectional Transformation with Graphical Constraints [Invited talk] Anthony Anjorin, Gergely Varro and Andy Schurr. Complex Attribute Manipulation in TGGS with Constraint-Based Programming Techniques	WRLA Dorel Lucaanu and Grigore Rosu. The K Framework Distilled [Invited talk] Irina Mariuca Asavoae, Frank de Boer, Marcello M. Bonsangue, Dorel Lucaanu and Jurriaan Rot. Bounded Model Checking of Recursive Programs with Pointers in K	FIT 14.00-14.45 Rolf Hennicker. Challenges and Solutions in Interface-Based Design of Component Systems [Invited talk] 14.45-15.30 Jit Srba. Beyond the Classical Modal Transition Systems [Invited talk]	IMGP 14.00-14.45 Johannes Reich. Processes, Roles and Their Interactions 14.45-15.30 Barbara Jobstmann. Quantitative Verification and Synthesis [Invited talk]	MBT Danel Ahman and Marko Käärmees. Constraint-Based Heuristic On-line Test Generation from Non-deterministic I/O EF5Ms Yevgeny Geffrits and Alexey Khoshilov. Model-Based Testing of Safety Critical Real-Time Control Logic Software Dimitry Polivaev. Rule-based Test Generation with Mind Maps	MSFP Danko Ilik. Dependently Typed Continuation Monads as Models in Logic [Invited talk] Mouter Swierstra. From Mathematics to Abstract Machine: A Formal Derivation of an Executable Krivine Machine	VSSE 14.00-14.45 Fabio Massacci. Empirical analysis of Evolution of Vulnerabilities 14.45-15.30 Alex Orso. Testing Evolving Software	VSSE 14.00-14.45 Peter M. Kruse. Automated Continuous Evolutionary Testing 16.45-17.30 Discussion
15.30-16.00 16.00-17.30	BX Leen Lambers, Stephan Hidebrandt, Holger Giese and Fernando Orejas. Attribute Handling for Bidirectional Model Transformations: The Triple Graph Grammar Case Erwann Wernli. Bidirectional Transformations Meets Dynamic Updates: Promise & Perils Perdita Stevens. Observations Relating to the Equivalences Induced on Model Sets by Bidirectional Transformations	WRLA Min Zhang and Kazuhiro Ogata. Facilitating the Transformation of State Machines from Equations into Rewrite Rules Andrei Anusoaie, Traian Serbanuta, Chucky Ellison and Grigore Rosu. Making Maude Definitions More Interactive 17.00-17.05 Closing	FIT 16.00-16.45 Axel Legay. On Quantitative Modal Automata [Invited talk] 16.45-17.30 Louis-Marie Traonouez. A Parametric Counterexample Approach for Robust Timed Specifications [Invited talk]	MBT Maximiliano Cristia and Claudia Frydman. Applying SMT Solvers to the Test Template Framework Teemu Kanstrén and Olli-Pekka Puuhtaival. Using Built-in Domain-Specific Modeling Support to Guide Model-Based Test	MSFP Tom Htvived and Patrick Bahr. Parametric Compositional Data Types José Pedro Magalhães and Andres Löh. A Formal Comparison of Approaches to Datatype-Generc Programming Vilhelm Sjöberg, Chris Casinghino, Ki Yung Ahn, Nathan Collins, Harley D. Eades III, Peng Fu, Garrin Kimmel, Tim Sheard, Aaron Stump and Stephanie Weirich. Irrelevance, Heterogenous Equality, and Call-by-value Dependent Type Systems	VSSE 16.00-16.45 Peter M. Kruse. Automated Continuous Evolutionary Testing 16.45-17.30 Discussion	VSSE 16.00-16.45 Peter M. Kruse. Automated Continuous Evolutionary Testing 16.45-17.30 Discussion	
19.30-22.30	Pre-conference workshops dinner							

# Sat 31 Mar

Sat 31 Mar									
9.00-10.30	CMCS Samson Abramsky and Jonathan Zvesper. From Lawvere to Brandenburger-Keisler: Interactive Forms of Diagonalization and Self-Reference [keynote talk]	DICE 9.25-9.30 Opening	LDTA 9.25-9.30 Opening	QAPL 9.25-9.30 Opening	Bytecode Jeff Foster. Using Bytecode Transformation to Retrofit Fine-Grained Security Policies on Unmodified Android [Invited talk]	FESCA 9.25-9.30 Opening	HAS 9.00-9.45 Pieter Mosterman. Analyzing Execution Semantics of High-level Formalisms for Modelling Hybrid Dynamic Systems [Keynote talk]	PLACES Antoni Pop and Albert Cohen. Work-Streaming Compilation of Futures	AIPA + SVARM
	Duško Pavlović. Tracing the Man in the Middle in Monoidal Categories	Ulrich Schöpp. Computation by Interaction for Structuring Resource Bounded Computation [Invited talk]	Janis Voigtländer. Programming Bidirectional Transformation [Invited talk]	Kim G. Larsen. Statistical Model Checking for Priced Timed Automata [Invited talk]	Olga Gadyatskaya, Eduardo Lostal and Fabio Massacci. Embeddable Security-by-Contract Verifier for Java Card	Samuel Kounev. Modeling of Event-Based Communication in Component-based Architectures: State-of-the-Art and Future Directions [Invited talk]	a Formal Basis of Robust Behaviour	Massimo Bartoletti, Tiziana Cimoli, G. Michele Pinna and Roberto Zunino. An Event-Based Model for Contracts	
10.30-11.00					Coffee				
11.00-12.30	CMCS Eleftherios Mtsikoudis and Edward Lee. From Transitions to Executions	DICE Contributions	LDTA Maartje De Jonge and Eelco Visser. A Language Generic Solution for Name Binding Preservation in Refactorings	QAPL Sergio Giro. Efficient Computation of Exact Solutions for Quantitative Model Checking	Bytecode James Hunt. Bytecode and Safety-Critical Systems: Friend or Foe? [Invited talk]	FESCA Christian Prehofer. Behavioral Refinement and Compatibility of Statechart Extensions	HAS 11.00-11.45 Peter Marwedel. Efficient Computing in Cyber-Physical Systems	PLACES Romain Demangeon. Stratified Protocols in Session-Types	AIPA + SVARM
	Bart Jacobs, Alexandra Silva and Ana Sokolova. Trace Semantics via Determinization		Daniel Lincke, Sibylle Schupp. From HOT to COOL - Transforming Higher-Order Typed Languages to Concept-Constrained Object-Oriented Languages	Elise Cornie-Bowins and Franck van Breugel. Measuring Progress of Probabilistic LTL Model Checking	Natalia Kokash, Mohammad Mahdi Jaghoori and Farhad Arbab. From Timed Reo Networks to Networks of Timed Automata	Hard RealTime. Probably Provable	Marco Carbone and Fabrizio Montesi. Merging Multiparty Protocols in Multiparty Choreographies		
	Giorgio Bacci and Marino Miculan. Structural Operational Semantics for Continuous State Probabilistic Processes		Jean-Christophe Bach, Xavier Créput, Pierre-Etienne Moreau, Marc Pantel. Model Transformations with Tom	Francesco Belardinelli, Pavel Gonzalez and Alessio Lomuscio. Automated Verification of Quantum Protocols using MCMAS	Fazle Rabbi, Hao Wang, Wendy MacCaull and Adrian Rutle. A Model Slicing Method for Workflow Verification		Denis Barthou, Gilbert Grosdidier, Michael Kruse, Olivier Péne, Claude Tadonki. QIRAL: A High Level Language for Lattice QCD Code Generation		
12.30-14.00					Lunch				
14.00-15.30	CMCS Pawel Sobocinski. Relational Presheaves as Labelled Transition Systems [Invited talk]	DICE Contributions	LDTA Marcos Viera, Doaitse Swierstra and Atze Dijkstra. Grammar Fragments Fly First-Class	QAPL Jeremy Bradley. Mean Field and Fluid Approaches to Markov Chain Analysis [Invited talk]	Bytecode Diego Garbervetsky. Quantitative Analysis of Java/.Net Like Programs to Understand Heap Memory Requirements [Invited talk]	FESCA Samir Chouali, Ahmed Hammad and Hassan Mountassir. Assembling Components Using SysML with Non-Functional Requirements	HAS 14.00-14.45 Giordano Pola. Arenas of Finite State Machines and their Application to the Modelling and Analysis of Air Traffic Management Systems	PLACES Benedict Gaster. Can GPGPU Programming Be Liberated from the Data Parallel Bottleneck? [Invited talk]	AIPA + SVARM
	Celia Picard and Ralph Matthes. Permutations in Coinductive Graph Representation		Marcos Viera, Doaitse Swierstra and Arie Middelkoop. UUAG Meets AspectAG: How to Make Attribute Grammars First-Class	Anna Kolesnichenko, Anne Remke, Pieter-Tjerk de Boer and Boudewijn Haverkort. A Logic for Model-Checking of Mean-Field Models	Ammar Osaiweran, Mathijs Schuts, Jozef Hooman and Jacco Wesselius. Incorporating Formal Techniques into Industrial Practice: An Experience Report	Resource-Aware Framework for Embedded System Design and Its Extension Towards Adaptivity	Peter Calvert and Alan Mycroft. Mapping the Join Calculus to Heterogeneous Hardware		
15.30-16.00					Coffee				
16.00-17.30	CMCS Short Contributions	DICE Contributions	LDTA Eric van Wk. Tool Challenge Report and Discussion	QAPL Mark Timmer, Joost-Pieter Katoen, Jaco van de Pol and Mariëlle I. A. Stoelinga. Efficient Modelling and Generation of Markov Automata	Bytecode Elvira Albert, Samir Genaim and Guillermo Román-Díez. Conditional Termination of Loops over Arrays	FESCA Michal Malohlava. SOFA 2 Component Framework and Its Ecosystem [Tutorial]	HAS 16.00-16.40 Louise Dennis. Verifying Reasoning within Agent-based Hybrid Control Systems	PLACES Tzu-Chun Chen and Kohei Honda. Specifying Stateful Asynchronous Properties for Distributed Programs	AIPA + SVARM
			Luca Bortolussi and Jane Hillston. Towards Fluid Model Checking	Luca Bortolussi and Shaz Qadeer. BCT: A Translator from MSIL to Boogie	Michael Barnett and Shaz Qadeer. BCT: A Translator from MSIL to Boogie	Space-exploration Systems	Sung-Shik TQ. Jongmans and Fairhad Arbab. Modularizing and Specifying Protocols among Threads		
17.30-18.00					Post-conference workshops dinner				
19.30-22.30					Post-conference workshops dinner				

# Sun 1 Apr

Time	CMCS	DICE	LDIA	QAPL	ACCAT	Graphite	Linearity	AIPA	SVARM
9.00-10.30	<p>Marcello Bonsangue, Jan Rutten and Joost Winter: Defining Context-Free Power Series Coalgebraically [Invited talk]</p> <p>Alexander Kurz, Daniela Petrisan, Paula Severi and Fer-Jan de Vries: An alpha-Corecursion Principle for the Infinitary Lambda Calculus</p>	Contributions	<p>Mark van den Brand, LDIA@ETAPS Retrospective</p>	<p>Boris Köpf: Quantitative Information-Flow Analysis [Invited talk]</p>	<p>Tobias Heindel: On Automorphisms of Graph-Like Objects and the Subobject Isomorphism Problem 9.1 [Invited talk]</p> <p>Harald König, Uwe Wolter and Michael Löwe: Characterising van Kampen Squares via Descent Data</p>	<p>9.25-9.30 Opening</p> <p>Juan de Lara: Graph Transformation with Time for Domain-Specific Modelling and Simulation [Invited talk]</p>	9.25-9.30 Opening		
10.30-11.00	Coffee								
11.00-12.30	<p>Short Contributions</p>	<p>Neelakantan R. Krishnaswami: Implicit Complexity for Functional Reactive Programs [Invited talk]</p>	<p>Tobi Vollebregt, Lennart C. L. Kats and Eelco Visser: Declarative Specification of Template-Based Textual Editors</p> <p>Vadim Zaytsev: Notation-Parametric Grammar Recovery</p> <p>Johnni Winther: Improving Precision of Generated ASTs</p>	<p>Ivan Gazeau, Dale Miller and Catuscia Palamidessi: A Non-Local Method for Robustness Analysis of Floating Point Programs</p> <p>Hirotoshi Yasuoka and Tachio Terauchi: Quantitative Information Flow as Safety and Liveness Hyperproperties</p> <p>Catuscia Palamidessi and Marco Stronati: Differential Privacy for Relational Algebra: Improving the Sensitivity Bounds via Constraint Systems</p>	<p>Thorsten Altenkirch: Weak ω Groupoids in Type Theory [Invited talk]</p> <p>Diego Latella, Mieke Massink, E.P. De Vink: Transition Systems of Stochastic Process Languages</p>	<p>Elise Cormie-Bowins: A Comparison of Sequential and GPU Implementations of Iterative Methods to Compute Reachability Probabilities</p> <p>Gijs Kant and Jaco van de Pol: Efficient Instantiation of Parameterised Boolean Equation Systems to Parity Games</p> <p>Stefan Edelkamp, Peter Kissmann and Alvaro Torralba Arias de Reyna: Lex-Partitioning: A New Option for BDD Search</p>			SVARM
12.30-14.00									
14.00-15.30	<p>Short contributions</p> <p>Vincenzo Ciancia and Yde Venema: Stream Automata Are Coalgebras</p>	Contributions	<p>Suzana Andova: Verification of Model Transformations</p> <p>Anthony Sloane: Formal Verification of Grammarware</p> <p>Closing</p>	<p>Luca Bortolussi, Vashit Galpin and Jane Hillston: Hybrid Performance Modelling of Opportunistic Networks</p> <p>Marco Bernardo: Weak Markovian Bisimulation Congruences and Exact CTMC-Level Aggregations for Concurrent Processes</p> <p>Henri Hansen and Mark Timmer: Why Confluence Reduction is Better than Partial Order Reduction in Probabilistic and Non-Probabilistic Branching Time</p>	<p>Oliver Barthélemy: A Comprehensive Study of an Algebraic Group Representation Designed for the AI Classical Planning Calculus</p> <p>Jean-Guillaume Dumas, Dominique Duval, Laurent Fousse, Jean-Claude Reynaud: Decorated Proofs for Computational Effects: States</p> <p>Hanna Schönel, Hartmut Ehrig, Maria Maximova, Karsten Gabriel, Frank Hermann: Satisfaction, Restriction and Amalgamation of Constraints in the Framework of M-Adhesive Categories</p>	<p>Pierre Wolper: Logic without Formulas: Automata as a Computational Notation [Invited talk]</p> <p>Eduardo Zambon, Arend Rensink: Graph Subsumption in Abstract State Space Exploration</p> <p>Pedro Baltazar, Dimitris Mostrous, Vasco Vasconcelos: Linearly Refined Session Types</p>			SVARM
15.30-16.00	Coffee								
16.00-17.30	<p>Toby Wilkinson: Internal Models for Coalgebraic Modal Logics</p> <p>Jiri Adamek, Stefan Milius and Lawrence Moss: On Finitary Functors and Their Presentations</p> <p>Johannes Marti and Yde Venema: Lax Extensions of Coalgebra Functors</p>	Open Discussion	<p>Zinovy Diskin: CT for BX: Category Theory Foundations for Bidirectional Model Transformations [Invited talk]</p>	<p>Jaak Vilo: Graphs in Bioinformatics and Social Networks [Invited talk]</p> <p>Andreas Beckmann, Jaroslav Fedorowicz, Jörg Keller and Ulrich Meyer: A Structural Analysis of the A5/T State Transition Graph</p>	<p>Yuxin Deng, Iliano Cervesato, Robert Simmons: Relating Reasoning Methodologies in Linear Logic and Process Algebra</p> <p>Beniamino Accattoli: A Linear Analysis of the Call-by-Value Lambda Calculus</p> <p>Paolo Torrini: Linear Dependent Types with Local Variables</p>			SVARM	