

# Tenth Biennial Ptolemy Miniconference

November 7, 2013

<http://ptolemy.org/ptconf>

8:00 am to 8:30 am	Continental Breakfast
8:30 am to 9:00 am	<i>Ptolemy Miniconferences</i> , <b>Edward Lee</b> (Berkeley)
9:00 am to 9:20 am	Aspect Oriented Models and CPS, <b>Patricia Derler</b> (Berkeley)
9:20 am to 9:40 am	Aspect-Oriented Fault Modeling and Anomaly Detection, <b>Ilge Akkaya</b> (Berkeley)
9:40 am to 10:00 am	Attack Modeling in Ptolemy: Towards a Secure Design for Cyber-Physical Systems, <b>Armin Wasicek</b> (Berkeley)
10:00 am to 10:30 am	Break
10:30 am to 10:50am	Developing Faithful Models of Body Sensor Networks, <b>Philip Asare, John Lach,</b> and <b>John A. Stankovic</b> (University of Virginia)
10:50 am to 11:10am	Light-Weight Synthesis of Ptolemy Diagrams with KIELER, Ulf Ruegg, Christian Schneider, <b>Christoph Daniel Schulze, Miro Sponeman, Christian Motika,</b> and <b>Reinhard von Hanxleden</b> (University of Kiel)
11:10 am to 11:30am	Modeling user interfaces with Cal and Ptolemy, <b>Hallvard Traetteberg</b> (Norwegian University of Science and Technology)
11:30 am to 12:00 pm	<i>90 second Poster Tweets</i>
12:00 pm to 2:20 pm	Working Lunch and Poster Session
2:20 pm to 2:40 pm	Efficient Schedulability Testing for Ptides, <b>Christos Stergiou</b> (Berkeley)
2:40 pm to 3:00 pm	A Formal Analysis of the Ptolemy II Type System, <b>Chris Shaver, Marten Lohstroh</b> (Berkeley)
3:00 pm to 3:20pm	Web Service Architecture for Composable, Interdisciplinary Applications, <b>Elizabeth Latronico</b> (Berkeley)
3:20 pm to 3:40 pm	Break
3:40 pm to 4:00 pm	<i>BPDF: A Statically Analyzable Dataflow Model with Integer and Boolean Parameters</i> , <b>Vagelis Bebelis, Pascal Fradet, Alain Girault,</b> and <b>Bruno Lavigueur</b> (INRIA)
4:00 pm to 4:20 pm	<i>System-level Synthesis of Dataflow applications for FPGA-based distributed systems</i> , <b>Hugo Andrade</b> (National Instruments)
4:20 pm to 4:40pm	<i>Dataflow in the Data Center</i> , <b>Adam Cataldo</b> (Wealthfront)
4:40 pm to 5:00 pm	<i>The Ptolemy Project: Advancing System Design</i> , <b>Edward A. Lee</b> (Berkeley)
5:15 pm to 8:00 pm	Reception and Dinner, The Faculty Club, Heyns room Dinner Speaker: <b>Chamberlain Fong</b> : Claudius Ptolemaeus, Geographer

## Posters

<b>Ilge Akkaya</b>	Berkeley	<i>Real-Time Machine Improvisation in Ptolemy II</i>
<b>Rajiv Bannerjee</b>	IIS Banglaore	<i>Cyber Physical Systems – Rebirth of System Engineering</i>
<b>David Broman</b>	Berkeley	<i>Precision Timed Compilers</i>
<b>Liangpeng Guo</b>	Berkeley	<i>Bridging Functional and Architectural Aspects by Metro II Semantics</i>
<b>Hokeun Kim</b>	Berkeley	<i>A Tool Integration Approach for Architectural Exploration of Aircraft Electric Power Systems</i>
<b>Eleftherios Matsikoudis, Christos Stergiou</b>	Berkeley	<i>The act Programming Language</i>
<b>Christian Motika<sup>1</sup>, Steven Smyth<sup>1</sup>, Reinhard von Hanxleden<sup>1</sup>, Michael Mendler<sup>2</sup></b>	<sup>1</sup> University of Kiel <sup>2</sup> University of Bamberg	<i>SCCharts: Sequentially Constructive Charts</i>
<b>Chris Shaver, Marten Lohstroh</b>	Berkeley	<i>Backward Type Inference</i>
<b>Chris Shaver, Marten Lohstroh</b>	Berkeley	<i>Taxonomies of MoCs</i>
<b>Stavros Tripakis</b>	Berkeley	<i>Determinate Composition of FMUs for Co-Simulation</i>
<b>Gerald Wang</b>	National Instruments	<i>Communication Storage Optimization for SDF with Access Patterns under Periodic Scheduling and Throughput Constraint</i>
<b>Matt Weber</b>	Berkeley	<i>Self-Organizing Semantic Localization</i>
<b>Edmund Widl, Wolfgang Muller, Elsheikh Atiyah, Peter Palensky</b>	Austria Institute of Technology	<i>Linking FMI-based components with Ptolemy II's Discrete Event Domain.</i>
<b>Ben Zhang</b>	Berkeley	<i>Swarm-in-the-loop Simulation and Simulation-in-the-loop Swarm</i>
<b>Michael Zimmer</b>	Berkeley	<i>Timing Predictable Processors as a Platform for Mixed-Criticality Systems</i>