

Sunday, June 18 (08:00-16:00)

PLDI Tutorials	ISMM Research Papers	ECOOP Doctoral Symposium	ECOOP Summer School	ARRAY 2017	MAPL 2017	PLMW	SOAP 2017
Registration (08:00 - 09:00)							
<p>08:30 P4: Programming the Network Data Plane (Vertex WS215)</p> <p>08:30 Foster, Schlesinger, Cascaval</p> <p>P4: Programming the Network Data Plane</p>	<p>Opening (Aula Master)</p> <p>08:30</p> <p>Opening</p> <p>08:45 Session end</p> <p>Keynote (Aula Master)</p> <p>08:45 Shen</p> <p>Bridging the Gap between Memory Performance and Massive Parallelism: The Critical Role of Programming Systems Innovations</p> <p>09:30 Session end</p> <p>Session 1: Garbage Collection (Aula Master)</p> <p>09:30 Bruno, Picciochi Oliveira, Ferreira</p> <p>NG2C: Pretenuing Garbage Collection with Dynamic Generations for HotSpot Big Data Applications</p> <p>10:00 Mingkun Yang, Wrigstad</p> <p>Type-Assisted Automatic Garbage Collection for Lock-Free Data Structures</p>	<p>Session 1 (Vertex WS208)</p> <p>09:00</p> <p>Introduction</p> <p>09:10</p> <p>Lightning talks</p> <p>09:30 Welch</p> <p>Scaling Up Automated Verification: A Case Study and A Formalization IDE for Building High Integrity Software</p> <p>10:00 Weide</p> <p>Enabling Modular Verification of Concurrent Programs</p>	<p>Keynote (Vertex WS218)</p> <p>09:00 Sadayappan</p> <p>Keynote: Towards achieving high performance, productivity, and portability for matrix/tensor computations in machine learning and data analytics</p> <p>10:00 Session end</p> <p>Morning talks 1 (Vertex WS218)</p> <p>10:00 Biermann, Sestoft</p> <p>Quad Ropes -- Immutable, Declarative Arrays with Parallelizable Operations</p>	<p>Keynote (Vertex WS219)</p> <p>09:15 Shpeisman, Gottschlich</p> <p>Introduction and Welcome</p> <p>09:30 Session end</p> <p>Keynote (Vertex WS219)</p> <p>09:30 Gulwani</p> <p>Programming by Examples: PL Meets ML</p>	<p>Session 1 (Sala d'Actes, Vertex Building)</p> <p>09:00</p> <p>Welcome</p> <p>09:45 McKinley</p> <p>Hot, Classic, and Unrecognized Problems in Programming Languages</p>	<p>Opening (Vertex WS216)</p> <p>08:30</p> <p>Opening</p> <p>08:45 Session end</p> <p>Invited Speaker - Sukyoung Ryu (Vertex WS216)</p> <p>08:45 Ryu</p> <p>Journey to Find Bugs in JavaScript Web Applications in the Wild</p> <p>09:30 Session end</p> <p>Points-to Analysis (Vertex WS216)</p> <p>09:30 Park, Rival, Ryu</p> <p>Revisiting Recency Abstraction for JavaScript: Towards an Intuitive, Compositional, and Efficient Heap Abstraction</p> <p>09:50 Balatsouras, Ferles, Kastrinis, Smaragdakis</p> <p>A Datalog Model of Must-Alias Analysis</p> <p>10:10 Hassanshahi, Kagalavadi, Krishnan, Scholz, Lu</p> <p>An Efficient Tunable Selective Points-to Analysis for Large Codebases</p>	
Coffee Break (10:30 - 11:00)							
<p>11:00 P4: Programming the Network Data Plane (cont'd) (Vertex WS215)</p> <p>11:00 Foster, Schlesinger, Cascaval</p> <p>P4: Programming the Network Data Plane</p>	<p>Session 2: Clever Data Tricks (Aula Master)</p> <p>11:00 Vrvilo, Yu, Sarkar</p> <p>A Marshalled Data Format for Pointers in Relocatable Data Blocks</p> <p>11:30 Liu, Criswell</p> <p>Flexible and Efficient Memory Object Metadata</p> <p>12:00 Vorobyov, Signoles, Kosmatov</p> <p>Shadow State Encoding for Efficient Monitoring of Block-level Properties</p>	<p>Session 2 (Vertex WS208)</p> <p>11:00 Dolby</p> <p>Invited Talk: The Story of WALA at Watson and Beyond</p> <p>11:30 Mishra</p> <p>Analysis and Verification of Rich Typestate Properties for Complex Programs</p> <p>12:00 Muehlboeck</p> <p>Efficient Run-Times for Sound Gradual Typing</p>	<p>Morning talks 2 (Vertex WS218)</p> <p>11:00 Chen, Ching, Hendren</p> <p>An ELI-to-C Compiler: Design, Implementation and Performance</p> <p>11:30 Pearce</p> <p>Array Programming in Whitley</p> <p>12:00 Osvald, Rompf</p> <p>Flexible Data Views: Design and Implementation</p>	<p>Languages and Frameworks (Vertex WS219)</p> <p>11:00 Abadi, Isard, Murray</p> <p>A Computational Model for TensorFlow (An Introduction)</p> <p>11:30 Vieira, Francis-Landau, Filardo, Khorasani, Eisner</p> <p>Dyna: Toward a Self-Optimizing Declarative Language for Machine Learning Applications</p> <p>Debugging, Analysis, and Verification (Vertex WS219)</p> <p>12:00 Nandi, Grossman, Sampson, Mytkowicz, McKinley</p> <p>Debugging Probabilistic Programs</p>	<p>Session 2 (Sala d'Actes, Vertex Building)</p> <p>11:00 Hicks</p> <p>What is research and how to do it? Thinking globally and acting locally.</p> <p>11:45 Solar-Lezama</p> <p>Program synthesis</p>	<p>Invited Speaker - Jingling Xue (Vertex WS216)</p> <p>11:00 Xue</p> <p>Static Analysis of Java Reflection</p> <p>11:45 Session end</p> <p>Modular Analysis (Vertex WS216)</p> <p>11:45 Kübler, Müller, Hermann</p> <p>SootKeeper: Runtime Reusability for Modular Static Analysis</p> <p>12:07 Antoniadis, Triantafyllou, Smaragdakis</p> <p>Porting Doop to Soufflé: A Tale of Inter-Engine Portability for Datalog-Based Analyses</p>	
Lunch (12:30 - 14:00)							
<p>13:30</p> <p>Bug detection in JavaScript web apps using the SAFE framework (Vertex WS215)</p> <p>14:00 Ryu, Jordan, Kim</p> <p>Bug detection in JavaScript web apps using the SAFE framework</p>	<p>Session 3: Hybrid Memory Systems (Aula Master)</p> <p>14:00 Dashti, Fedorova</p> <p>Analyzing Memory Management Methods on Integrated CPU-GPU Systems</p> <p>14:30 Giles, Doshi, Varman</p> <p>Continuous Checkpointing of HTM Transactions in NVM</p> <p>15:00 Peng, Gioiosa, Kestor, Markidis, Cicotti, Laure</p> <p>RTHMS: A Tool for Data Placement on Hybrid Memory System</p>	<p>Session 3 (Vertex WS208)</p> <p>13:30 Nadi</p> <p>Invited Talk: What Lies Beyond a PhD</p> <p>14:00 Narayanan</p> <p>Verifiable, reusable, yet useful conditioning</p> <p>14:30 Schulz</p> <p>Improving Warmup in Meta-Traced Virtual Machines</p> <p>15:00 Session end</p>	<p>Invited talk (Vertex WS218)</p> <p>14:00 Gibbons</p> <p>Invited talk: APLicative Programming with Naperian Functors</p> <p>Afternoon talks 1 (Vertex WS218)</p> <p>15:00 Plagne, Bojnourdi</p> <p>Portable Vectorization and Parallelization of C++ Multi-Dimensional Array Computations</p>	<p>Debugging, Analysis, and Verification 2 (Vertex WS219)</p> <p>14:00 Zhang, Si, Naik</p> <p>Combining the Logical and the Probabilistic in Program Analysis</p> <p>14:30 Koc, Saadatpanah, Foster, Porter</p> <p>Learning a Classifier for False Positive Error Reports Emitted by Static Code Analysis Tools</p> <p>15:00 Murphy, Stewart</p> <p>Verified Perceptron Convergence Theorem</p>	<p>Session 3 (Sala d'Actes, Vertex Building)</p> <p>14:00 Yang</p> <p>Programming languages and security</p> <p>14:45 Wiedermann</p> <p>Giving good talks</p>	<p>Invited Speaker - Julian Dolby (Vertex WS216)</p> <p>14:00 Dolby</p> <p>WALA Everywhere</p> <p>14:45 Session end</p> <p>Soundness and Precision (Vertex WS216)</p> <p>14:45 Andreassen, Møller, Nielsen</p> <p>Systematic Approaches for Increasing Soundness and Precision of Static Analyzers</p> <p>15:07 Dietrich, Sui, Rasheed, Tahir</p> <p>On the Construction of Soundness Oracles</p>	
Coffee Break (15:30 - 16:00)							

Sunday, June 18 (16:00-18:00)

PLDI Tutorials	ISMM Research Papers	ECOOP Doctoral Symposium	ECOOP Summer School	ARRAY 2017	MAPL 2017	PLMW	SOAP 2017
		Session 4 (Vertex WS208) 15:30 Thakur <i>Compilation of Stream Programs for Heterogeneous Architectures</i> 16:00 Hawkins <i>Introspective Intrusion Detection for Popular Software Platforms</i> 16:30 Köhler <i>Privacy-aware operator placement</i> 17:00 Jul <i>Invited Talk</i> 17:40 <i>Round up by the academic panel</i> 17:50 Session end					
16:00 Bug detection in JavaScript web apps using the SAFE framework (cont'd) (Vertex WS215) 16:00 Ryu, Jordan, Kim <i>Bug detection in JavaScript web apps using the SAFE framework</i>	Session 4: A Deeper Look (Aula Master) 16:00 Kanvar, P. Khedker <i>"What's in a Name?" Going Beyond Allocation Site Names in Heap Analysis</i> 16:30 Fang, Sighireanu <i>A Refinement Hierarchy for Free List Memory Allocators</i> 17:00 Zhang, Biswas, Bond <i>Avoiding Consistency Exceptions Under Strong Memory Consistency Models</i> 17:30 Session end	S1 (Vertex WS217) 16:30 Vitek <i>Introduction Session</i>	Afternoon talks 2 (Vertex WS218) 16:00 Andreassen, Christian, Natvig <i>Efficient Array Slicing on the Intel Xeon Phi Coprocessor</i> 16:30 Springer, Wauligmann, Masuhara <i>Modular Array-based GPU Computing in a Dynamically-typed Language</i> 17:00 Springer, Su, Bientinesi <i>HPTT: A High-Performance Tensor Transposition C++ Library</i> 17:30 Session end Closing / Discussion (Vertex WS218) 17:30 <i>Closing / Discussion</i>	Town Hall Discussion (Vertex WS219) 16:00 <i>Town Hall Discussion</i> 16:45 Session end Closing (Vertex WS219) 16:45 Shpeisman, Gottschlich <i>Concluding Remarks</i> 17:00 Session end	Session 4 (Sala d'Actes, Vertex Building) 16:00 Samanta <i>Formal methods</i> 17:00 <i>Life after PhD</i>	Benchmarking (Vertex WS216) 16:00 Reif, Eichberg, Hermann, Mezini <i>Hermes: Assessment and Creation of Effective Test Corpora</i> 16:20 Session end Open Discussion (Vertex WS216) 16:20 <i>Open Discussion</i>	
18:00							

Monday, June 19 (08:00-16:00)

PLDI Research Papers		Curry On Talks		ECOOP Summer School	DEBS	ICLOOPS	IWACO 2017	JSTools 2017
08:00 Registration (08:00 - 09:00)								
09:00 Welcome (Auditorium, Vertex Building)						Events Meet Processes (Vertex WS219)	Morning I (Vertex WS216)	
09:00 Welcome						09:00 DEBS Workshop	09:00 Wolczko Workshop Welcome	
09:05 Session end							09:10 Clebsch We Software People are not Worthy - All Hail the Hardware Gods	
Joint Keynote - Martin Odersky (Auditorium, Vertex Building)		Monday - 9:00 - 9:50 - Auditorium (Auditorium, Vertex Building)						
09:05 Odersky What to Leave Implicit		09:05 Odersky What to Leave Implicit						
09:50 Session end		09:50 Session end						
1' pitches of the day (Auditorium, Vertex Building)								
09:50								
1' Pitches of Monday								
Coffee Break (10:00 - 11:00)*								
		Monday - 10:30 - 12:50 - Auditorium (Auditorium, Vertex Building)	Monday - 10:30 - 12:50 - Sala Agora (Sala Agora)	Monday - 10:30 - 12:50 - Sala d'Actes (Sala d'Actes, Vertex Building)				
11:00 Compiler Optimizations (Aula Master)		10:30 Chaudhuri Flow Reloaded: New Challenges and New Opportunities	10:30 Pretty Impromptu: A Lightweight, dependently-typed async framework for Scala	10:30 Pina The Programmer's Guide to Ideology				
10:50 Lifflander, Krishnamoorthy Cache Locality Optimization for Recursive Programs		10:50 Yessenov, Kuraj, Solar-Lezama DemoMatch: API Discovery from Demonstrations	11:20 Winandy Centrifuge: Data quality in Spark without the costs!	11:20 Kase Composable Caching in Swift				
11:15 Saarikivi, Veanes, Mytkowicz, Musuvathi Fusing Effectful Comprehensions		11:15 David, Partush, Yahav Similarity of Binaries through re-Optimization	12:10 McMillan Angelina Ballerina Learns About Memory Allocation	12:10 Dail Building Web Apps with Reason				
11:40 Ding, Ning, Guan, Shen Generalizations of the Theory and Deployment of Triangular Inequality for Compiler-Based Strength Reduction		11:40 Bastani, Sharma, Aiken, Liang Synthesizing Program Input Grammars	12:50 Session end	12:50 Session end				
12:05 Menendez, Nagarakatte ALIVE-INFER: Data-Driven Precondition Inference for Peephole Optimizations in LLVM		12:05 Huang, Tristan, Morrisett Compiling Markov Chain Monte Carlo Algorithms for Probabilistic Modeling						
					Events Meet Processes (Vertex WS219)	Morning II (Vertex WS216)	Morning Session (Vertex WS217)	Morning (Vertex WS218)
					11:00 DEBS Workshop	11:00 Springer, Krieger, Manilov, Masuhara dart2java: Running Dart in Java-based Environments	11:00 Brandauer Spencer: Tracing as a Service	11:00 Santos JaVerT: a logic-based tool for JavaScript Verification
						11:30 Henning, Felgentreff, Hirschfeld VM Wrapping - Fake it till you make it	11:30 Potanin Are Your Incoming Aliases Really Necessary?	11:30 Gao To Type or Not to Type: Quantifying Detectable Bugs in JavaScript
						12:00 Chari, Garbervetsky, Marr A Metaobject Protocol for Optimizing Application-Specific Run-Time Variability	12:00 Session end Remembering the Cost of Object Ownership.	12:00 Møller Testing and Evolving TypeScript Declaration Files with Program Analysis
Lunch (12:30 - 14:00)*								
14:00 Concurrency Analysis (Aula Master)		Monday - 14:00 - 14:50 - Auditorium (Auditorium, Vertex Building)		S2A (Sala Agora)	Doctoral Symposium (Vertex WS219)	Afternoon I (Vertex WS216)	Afternoon Session (Vertex WS217)	Afternoon (Vertex WS218)
14:00 Eizenberg, Peng, Pigli, Mansky, Devietti BARRACUDA: Binary-Level Analysis of Runtime Races in CUDA programs		14:00 Goetz FP is Dead: Long Live FP		14:00 Ahmed Compiler Verification for a Multi-Language World	14:00 Affetti Consistent Stream Processing	14:00 Sedlar, Wuertinger Can Compiler Magic Ever Be Explained?	14:00 Klock Aliasing, Capabilities and Ownership in Rust	14:00 Vilck BCoZ: Effective Performance Debugging for Web Applications
14:25 Rhodes, Flanagan, Freund BigFoot: Static Check Placement for Dynamic Race Detection		14:50 Session end		15:40 Session end	14:20 Hesse, Matthes, Reissaus A New Application Benchmark for Data Stream Processing Architectures in an Enterprise Context	15:00 Horváth, Pataki, Balassi Code Generation in Serializers and Comparators of Apache Flink	14:30 Thangaraj, Kumaran Introducing Ownership Type Constraints to UML/OCL	14:30 Tip Repairing Event Race Errors by Controlling Nondeterminism
14:50 Kini, Mathur, Viswanathan Dynamic Race Prediction in Linear Time		Monday - 15:00 - 15:40 - Auditorium (Auditorium, Vertex Building)		Monday - 15:00 - 15:40 (Actes, Informatics Building)	14:40 Steer, Cuadrado, Clegg Raphorty: Decentralised Streaming for Temporal Graphs	15:00 Bagge, Haugsbakk, Zaytsev Towards Reasonable Ownership	15:00 Margan Large-Scale Stream Graph Processing	15:00 Static Analysis of CommonJS Modules
15:15 Billes, Møller, Pradel Systematic Black-Box Analysis of Collaborative Web Applications		15:00 Hughes Don't Write Tests!		15:00 Borgatti Clojure Transducers In The Wild	15:00 Kasas Carpenters & Cartographers			
15:40 Session end		15:40 Session end		15:40 Session end	15:20 Session end			
		Monday - 15:00 - 15:40 - Auditorium (Auditorium, Vertex Building)		Monday - 15:00 - 15:40 (Actes, Informatics Building)				
		15:00 Kedia, Costa, Parkinson, Vaswani, Vytiniotis Simple, fast and safe manual memory management		15:00 Session end				
		15:40 Session end		15:40 Session end				
Coffee Break (15:30 - 16:00)*								

Monday, June 19 (16:00-22:00)

PLDI Research Papers	Curry On Talks	ECOOP Summer School	DEBS	ICLOOPS	WACO 2017	JSTools 2017
16:00						
Dynamic Analysis and Testing (Sala d'Actes, Faculty of Civil Engineering)	Static Analysis (Aula Master)	Monday - 16:10 - 18:30 - Auditorium (Auditorium, Vertex Building)	Monday - 16:10 - 18:30 (Actes, Informatics Building)	Monday - 16:10 - 18:30 - Sala d'Actes (Sala d'Actes, Vertex Building)	S2B (Sala Agora)	Doctoral Symposium (Vertex WS219)
16:10 Fu, Su	16:10 Kincaid, Breck, Boroujeni, Reps	16:10 Might	16:10 Rompf	16:10 Ahmed	16:00 Meyer, Ollesch, Gries, Wessling, Gruhn	16:00 Jul
Achieving High Coverage for Floating-point Code via Unconstrained Programming	Compositional Recurrence Analysis Revisited	Winning the War on Error: Solving the Halting Problem and Curing Cancer	How types can turn a SQL interpreter into a SQL compiler	Compiler Verification for a Multi-Language World	Property-based routing in clustered message brokers for CPS	Panel: Do new Computing Environments lead to new Language Constructs?
16:35 Chamith, Dalessandro, Svensson, Newton	16:35 Thiessen, Lhoták	17:00 Matsakis	17:00 Akhter	17:00 Kleppmann	16:20 Mizzi, Ellul, Pace	16:00 Vytiniotis
Instruction Punning: Lightweight Instrumentation for x86-64	Context Transformations for Pointer Analysis	Rust: Putting Ownership to Use	Orchestrate ING with Petri Net	Making decentralisation available for all	An Embedded DSL Framework for Distributed Embedded Systems	Adding Safe Manual Memory Management to .NET
Efficient and Precise Points-to Analysis: Modeling the Heap by Merging Equivalent Automata	17:00 Tan, Li, Xue	17:40 Session end	Haskell SpriteKit - A Case Study in Turning a Stateful into a Purely Functional API	17:50 Chakravarty	16:40 Desprat, Caudesaygues, Luga, Jessel	16:45 Session end
17:00 d'Antras, Gorgovan, Garside, Lujan	17:25 Santhiar, Kanade		18:30 Session end	17:50 Jacobowitz	Loosely Coupled Approach for Web-Based Collaborative 3D Design	17:00 Krainz, Philippsen
Low Overhead Dynamic Binary Translation on ARM	Static Deadlock Detection for Asynchronous C# Programs			Reactive Programming in the Browser with Scala.js and PureScript	17:00 Perry, Kutay, Rabhi	17:00 Mizzi, Ellul, Pace
17:25 Zhang, Sun, Su	17:50 Session end			18:30 Session end	Visualising complex event hierarchies using relevant domain ontologies	17:30 Welch, Durkee, Kabbani, Sitaraman
Skeletal Program Enumeration for Rigorous Compiler Testing					17:20 Session end	A Formalization IDE Integrated with a Verifying Compiler
17:50 Session end						18:00 Session end
Joint Keynote – Martin Abadi (Auditorium, Vertex Building)	Monday - 17:50 - 18:30 - PLDI (Auditorium, Vertex Building)	Monday - 17:50 - 18:30 - PLDI (Auditorium, Vertex Building)				
17:50 Abadi	17:50 Abadi	17:50 Abadi				
TensorFlow considered as a programming language	PLDI Keynote - TensorFlow considered as a programming language	PLDI Keynote - TensorFlow considered as a programming language				
Social Event with Curry On (dinner provided) (19:30 - 22:00, Moritz Brewery)						

* Please note that certain sessions end later than the coffee break (lunch) starts or start earlier than it ends. Don't worry, there will be enough coffee for everyone.

Tuesday, June 20 (08:00-14:00)

PLDI Research Papers		Curry On Talks		DEBS Tutorials		ECOOP Summer School		COP 2017		FTfJP	
08:00											
Registration (08:00 - 09:00)											
09:00 Curry-On Keynote – José Valim (Auditorium, Vertex Building)		Tuesday - 9:00 - 9:50 - Auditorium (Auditorium, Vertex Building)		Complex Event Recognition Languages (Vertex WS218)		Sliding-Window Aggregation Algorithms (Vertex WS219)		Session 1 (Vertex WS216)		A (Vertex WS215)	
09:00 Valim <i>Elixir</i>		09:00 Valim <i>Idioms for building distributed fault-tolerant applications with Elixir</i>		09:00 Artikis, Margara, Ugarte, Vansummeren, Weidlich <i>Complex Event Recognition Languages</i>		09:00 Hirzel, Schneider, Tangwongsan <i>Sliding-Window Aggregation Algorithms</i>		09:00 Welcome		09:00 Asavaoe, Nguyen, Roggenbach, Shaikh <i>Software Model Checking: A Promising Approach to Verify Mobile App Security</i>	
09:50 Session end		09:50 Session end		10:30 Session end		10:30 Session end		09:15 van der Storm <i>Keynote on Context-Oriented Language Engineering</i>		09:20 Amrani, Schobbens <i>Formal Analysis of Object-Oriented Mograms</i>	
1' pitches of the day and the next day (Auditorium, Vertex Building)								10:15 Discussion		09:55 AbdelGawad <i>Towards a Java Subtyping Operad</i>	
09:50								10:30 Session end		10:30 Session end	
1' Pitches of Tuesday and Wednesday											
Coffee Break (10:30 - 11:00)*											
10:50 Static Analysis and Security (Aula Master)		Synthesis (Sala d'Actes, Faculty of Civil Engineering)		Tuesday - 10:25 - 12:35 - Auditorium (Auditorium, Vertex Building)		Tuesday - 10:25 - 12:35 (Actes, Informatics Building)		Tuesday - 10:25 - 12:35 - Sala d'Actes (Sala d'Actes, Vertex Building)		S3A (Sala Agora)	
10:50 Antonopoulos, Gazzillo, Hicks, Koskinen, Terauchi, Wei <i>Decomposition Instead of Self-Composition for Proving the Absence of Timing Channels</i>		10:50 Feng, Martins, Van Geffen, Dillig, Chaudhuri <i>Component-based Synthesis of Table Consolidation and Transformation Tasks from Examples</i>		10:25 King <i>Building Tools and Languages for Terabyte Scale Biology: A Call to Action</i>		10:25 Thomas <i>The Joy of Vector Programming: Why Vector Programming Matters</i>		10:25 Haverbeke <i>Grammar-based language modes for text editors</i>		10:50 Matsakis <i>Rust: Ownership in practice</i>	
11:15 Hu, D'Antoni <i>Automatic Program Inversion using Symbolic Transducers</i>		11:15 Beckett, Mahajan, Millstein, Padhye, Walker <i>Network Configuration Synthesis with Abstract Topologies</i>		11:15 Yang <i>Preventing Information Leaks by Construction</i>		11:15 Romijn <i>Helping communities & products thrive by fostering empathy</i>		11:15 Zarko <i>Scalable cross-references across languages</i>		11:00 Artikis, Margara, Ugarte, Vansummeren, Weidlich <i>Complex Event Recognition Languages</i>	
11:40 Ohmann, Brooks, D'Antoni, Liblit <i>Control-Flow Recovery from Partial Failure Reports</i>		11:40 Wang, Cheung, Bodik <i>Synthesizing Highly Expressive SQL Queries from Input-Output Examples</i>		12:05 Allen <i>The Sharp Edges of Leaky Abstraction</i>		12:05 Popescu <i>The CernVM File System - Beyond Static Content Distribution</i>		12:05 Shoker <i>There are no BFT Fans Anymore... About Secure Eventual Consistency</i>		11:00 Querzoni, Rivetti <i>Data Streaming and its Application to Stream Processing</i>	
12:05 Daychev, Köpf <i>Rigorous Analysis of Software Countermeasures against Cache Attacks</i>		12:05 Bornholt, Torlak <i>Synthesizing Memory Models from Framework Sketches and Litmus Tests</i>		12:45 Session end		12:45 Session end		12:45 Session end		11:30 Kamina, Aotani, Masuhara <i>Push-based Reactive Layer Activation in Context-Oriented Programming</i>	
										11:00 Ramson, Lincke, Hirschfeld <i>The Declarative Nature of Implicit Layer Activation</i>	
										11:20 Dreyer <i>Iris: A Modular Foundation for Higher-Order Concurrent Separation Logic (KEYNOTE)</i>	
										12:00 Watanabe, Ogura <i>Petri-Net Based Testing Environment for Context-Oriented Programming</i>	
Lunch (12:30 - 14:00)*											

Tuesday, June 20 (13:50-19:20)

PLDI Research Papers		Curry On Talks			DEBS Tutorials		ECOOP Summer School	COP 2017	FTJP
		Tuesday - 13:50 - 15:20 - Auditorium (Auditorium, Vertex Building)	Tuesday - 13:50 - 15:20 (Actes, Informatics Building)	Tuesday - 13:50 - 15:20 - Sala d'Actes (Sala d'Actes, Vertex Building)					
14:00	Functional Programming and Correctness (Aula Master)	13:50 Abadi <i>Machine learning systems with privacy and for privacy: TensorFlow & PATE-G</i>	13:50 Mezini <i>Modular Composition of Reactive Applications</i>	13:50 Mola <i>Babelfish: Universal Code Parsing Server</i>	Human-body Related Event Processing (Vertex WS218)	Reflections on Almost Two Decades of Research into Stream Processing (Vertex WS219)	S3B (Sala Agora)	Session 3 (Vertex WS216)	C (Vertex WS215)
14:00	Maurer, Downen, Ariola, Peyton Jones	14:00 Farzan, Nicolet <i>Synthesis of Divide and Conquer Parallelism for Loops</i>	14:40 Edwards <i>On Being a type-heavy Scheme programmer in InfoSec, or, how I learnt to hate everything & love better type systems</i>	14:40 Wingo <i>Channels, Concurrency, and Cores: A new Concurrent ML implementation</i>	14:00 Etzion <i>Human Body Related Event Processing</i>	14:00 Sheykh Esmaili <i>Reflections on Almost Two Decades of Research into Stream Processing</i>	14:00 Matsakis <i>Rust: Ownership in practice</i>	14:00 Saeki, Tanigawa, Hisazumi, Fukuda <i>ContextROS: Context-Oriented Programming for the Robot Operating System</i>	14:00 Belyakova <i>Generic Approach to Certified Static Checking of Module-like Constructs</i>
14:25	Patterson, Perconti, Dimoulas, Ahmed	14:25 Henriksen, Serup, Elsmann, Henglein, Oancea <i>Futhark: Purely Functional GPU-programming with Nested Parallelism and In-place Array Updates</i>	15:20 Session end	15:20 Session end			15:40 Session end	14:20 Tanigawa, Hisazumi, Ogura, Watanabe, Fukuda <i>IoT Robot Simulator and Framework for Context-Oriented Programming</i>	14:20 Giannini, Servetto, Zucca <i>Tracing sharing in an imperative pure calculus</i>
14:50	Chu, Weitz, Cheung, Suci	14:50 Fedyukovich, Ahmad, Bodik <i>Gradual Synthesis for Static Parallelization</i>						14:55 Rapoport, Lhotak <i>Mutable WadlerFest DOT</i>	
15:15	Eisenberg, Peyton Jones	15:15 Gordon, Ernst, Grossman, Parkinson <i>Verifying invariants of lock-free data structures with rely-guarantee and refinement type</i>						15:00 Cardozo, Dusparic, H. Castro <i>Peace CORP: Learning to solve conflicts between contexts</i>	
15:40	Session end	15:40 Session end							
Coffee Break (15:30 - 16:00)*									
16:00	Correctness (Sala d'Actes, Faculty of Civil Engineering)	Tuesday - 16:00 - 18:20 - Auditorium (Auditorium, Vertex Building)	Tuesday - 16:00 - 18:20 (Actes, Informatics Building)	Tuesday - 16:00 - 18:20 - Sala d'Actes (Sala d'Actes, Vertex Building)	Human-body Related Event Processing (Vertex WS218)			Session 4 (Vertex WS216)	D (Vertex WS215)
16:10	Lahav, Vafeiadis, Kang, Hur, Dreyer	16:00 Clebsch <i>Pony: 714 Days Later</i>	16:00 Ford <i>Computational Musicology, ????, Profit</i>	16:00 Visser <i>Scope Graphs: A Fresh Look at Name Binding in Programming Languages</i>	16:00 Etzion <i>Human Body Related Event Processing</i>			16:00 Discussion	16:00 Margara, Salvaneschi <i>Consistency Types for Safe and Efficient Distributed Programming</i>
16:35	Lee, Kim, Song, Hur, Das, Majnemer, Regehr, Lopes	16:35 Stefan <i>Finding and Preventing Bugs in JavaScript Bindings</i>	16:50 Hage <i>Domain-Specific Type Error Diagnosis in the Glasgow Haskell Compiler</i>	16:50 Kavalari <i>Making Science Reproducible with Functional Programming Concepts</i>	17:30 Session end			18:00 Session end	16:20 Rhodes, Flanagan, Freund <i>Correctness of Partial Escape Analysis for Multithreading Optimization</i>
17:00	Session end	17:40 Verlaquet <i>Reflex: Reactive Programming at Facebook</i>	17:40 Steindorfer <i>With Age comes Beauty - Past, Present, and Future of Efficient Immutable Collections</i>	17:40 Nguyen <i>Two Households, Both Alike in Dignity: A Not-So-Tragedy of Refactoring Front-end APIs</i>					16:55 Ancona, Ferrando, Franceschini, Mascardi <i>Parametric trace expressions for runtime verification of Java-like programs</i>
17:00	Program Chair report and SIGPLAN Town Hall meeting (Aula Master)	18:20 Session end	18:20 Session end	18:20 Session end					17:30 Session end
17:00	Program Chair report and SIGPLAN Town Hall meeting								
18:00	Session end								
		Tuesday - 18:30 - 19:20 - Auditorium (Auditorium, Vertex Building)							
		18:30 Ierusalimsky <i>Scripting with Lua</i>							
		19:20 Session end							

* Please note that certain sessions end later than the coffee break (lunch) starts or start earlier than it ends. Don't worry, there will be enough coffee for everyone.

Wednesday, June 21

PLDI Research Papers		ECOOP Research Papers		DEBS Research Papers		LCTES		ECOOP Summer School	
08:00 Registration (08:00 - 09:00)									
09:00 Frank Wood (Auditorium, Vertex Building)				Welcome (Sala d'Actes, Vertex Building)		Opening (Vertex WS208)			
09:00 Wood				09:00 Welcome		09:00 Opening			
Probabilistic Programming and Inference Compilation, or, How I Learned to Stop Worrying and Love Deep Networks				09:30 Session end		09:15 Session end			
				Session 1: New Directions (Sala d'Actes, Vertex Building)		Keynote 1 (Vertex WS208)			
				09:30 Sejdovic, Euting, Riemer, Sure-Vetter		09:15 Xue			
				Considering Human Factors in the Development of Situation-Aware CEP Applications. (New Direction Paper)		Static Analysis for Improving Software Performance, Safety and Security			
				09:50 Antonic, Marjanovic, Podnar Zarko		10:15 Session end			
				Modeling Aggregate Input Load of Interoperable Smart City Services. (New Direction Paper)					
				10:10 Yadav, Ulhassan, Hasan, Curry					
				The Event Crowd: A Novel Approach for Crowd-Enabled Event Processing. (New Direction Paper)					
				10:30 Session end					
Coffee Break (10:30 - 11:00)									
10:20 SRC presentations (Vertex WS217)		Systems and Performance (Auditorium, Vertex Building)							
10:20 SRC presentations		10:20 Schneider, Wu							
12:00 Session end		Low-Synchronization, Mostly Lock-Free, Elastic Scheduling for Streaming Runtimes							
		10:45 Wuerthinger, Wimmer, Humer, Woess, Stadler, Seaton, Duboscq, Simon, Grimmer				Session 1: Compiler Optimization for Embedded Systems (Vertex WS208)			
		Practical Partial Evaluation for High-Performance Dynamic Language Runtimes				10:50 Wade, Kulkarni, Jantz			
		11:10 Muller, Acar, Harper				AOT Vs. JIT: Impact of Profile Data on Code Quality			
		Responsive Parallel Computation: Bridging Competitive and Cooperative Threading				11:15 Taylor, Marco, Wang			
		11:35 Mamouras, Raghotaman, Alur, Ives, Khanna				Adaptive Optimization for OpenCL Programs on Embedded Heterogeneous Systems			
		StreamQRE: Modular Specification and Efficient Evaluation of Quantitative Queries over Streaming Data				11:40 Reiche, Kobylko, Hannig, Teich			
		12:00 Session end				Auto-Vectorization for Image Processing DSLs			
						12:05 Fu, Hong, Liu, Wu, Hsu			
						Dynamic Translation of Structured Loads/Stores and Register Mapping for Architectures with SIMD Extensions			
Awards (Auditorium, Vertex Building)						12:30 Session end			
12:00 Best Paper, Artifact Evaluation, SIGPLAN Test of Time Awards									
12:15 Cohen									
Closing									
Lunch (12:30 - 14:00)									
14:00		Keynote (Auditorium, Vertex Building)		Keynote (Auditorium, Vertex Building)		Poster Session (Vertex WS208)			
		14:00 Schulte		14:00 Shulte		14:00			
		Challenges to Achieving High Availability at Scale		Challenges to Achieving High Availability at Scale		Accepted posters and posters for all the accepted papers will be presented in this session			
Coffee Break (15:00 - 15:30)									
15:30		Analysis and Synthesis (Auditorium, Vertex Building)		DEBS 10 Years Time Award (Sala d'Actes, Vertex Building)		Session 2: Abstraction, Modelling and Scheduling for IoT and Embedded Systems (Vertex WS208)		S4 (Aula Master)	
		15:30 Mayer, Hamza, Kuncak		15:30		15:30 Jiang, Sha, Zhuge, Dong, Chen		15:30 Breslav	
		Proactive Synthesis of Recursive Tree-to-String Functions from Examples		10 Years Time Award		Optimal Functional Unit Assignment and Voltage Selection for Pipelined MPSoC with Guaranteed Probability on Time Performance		Kotlin: the ins and outs of designing a commercial language	
		15:55 Huang, Huang		16:30 Session end		15:55 Lee, Heo, Kim, Kim, Kim		17:10 Session end	
		Speeding Up Maximal Causality Reduction with Static Dependency Analysis		Demos and Poster Introduction (Sala d'Actes, Vertex Building)		Integrated IoT Programming with Selective Abstraction			
		16:20 Stiévenart, Nicolay, De Meuter, De Roover		16:30		16:20 Zhang, Ying			
		Mailbox Abstractions for Static Analysis of Actor Programs		DEBS Demos and Posters		Efficient SMT-based LTL Model Checking of Clock Constraint Specification Language for Real-Time and Embedded Systems			
		16:45 Huang, Rajagopalan		17:00 Session end		16:45 Zheng, Wu, Nie			
		What's the Optimal Performance of Precise Dynamic Race Detection? - A Redundancy Perspective		DEBS ECOOP Joint Poster & Demo Reception (Coffee Breaks area)		Integrating Task Scheduling and Cache Locking for Multicore Real-time Embedded Systems			
		17:10 Session end		17:00					
				DEBS Demos and Posters					

Thursday, June 22 (08:00-15:50)

ECOOP Research Papers	DEBS Research Papers	PLDI Tutorials		LC TES	ECOOP Summer School	IC	DSW	
Registration (08:00 - 09:00)								
09:00 DahI-Nygaard Senior Prize (Auditorium, Vertex Building) 09:00 Bracha <i>Composing Software in an Age of Dissonance</i>	09:00 Rick Hull (IBM Research) (Sala d'Actes, Vertex Building) 09:00 Hull <i>Blockchain: Distributed Event-based Processing in a Data-Centric World</i>	09:00 Building your own modular static analyzer with Facebook Infer (Vertex WS216) 09:00 Distefano, O'Hearn, Blackshear <i>Building your own modular static analyzer with Facebook Infer</i>	09:00 Refinement Types for Program Verification and Synthesis (Vertex WS215) 09:00 Vazou, Polikarpova, Jhala <i>Refinement Types for Program Verification and Synthesis</i>	09:00 WALA Hack-A-Thon (Vertex WS218) 09:00 Dolby, Ali <i>WALA Hack-A-Thon</i>	09:00 Keynote 2 (Vertex WS208) 09:00 Kirsch <i>Design versus Performance: From Giotto via the Embedded Machine to Selfie</i>		09:00 Intro & industry perspective on crypto (Vertex WS217) 09:00 Beringer, Chlipala <i>Introduction to DeepSpec</i> 09:15 Rizzo <i>Building Faith in Experts: Applying Formal Verification to Cryptography</i>	
Coffee Break (10:00 - 10:30)								
10:30 Specification and Verification (Auditorium, Vertex Building) 10:30 Andrés Delbianco, Sergey, Nanevski, Banerjee <i>Concurrent Data Structures Linked in Time</i> 10:55 Dietrich, Pearce, Jezek, Brada <i>Contracts in the Wild: A Study of Java Programs</i> 11:20 Kaiser, Dang, Dreyer, Lahav, Vafeiadis <i>Strong Logic for Weak Memory: Reasoning About Release-Acquire Consistency in Iris</i> 11:45 Podkopaev, Lahav, Vafeiadis <i>Promising Compilation to ARMv8 POP</i>	10:30 Session 3: Publish/Subscribe (Sala d'Actes, Vertex Building) 10:30 Salehi, Zhang, Jacobsen <i>PopSub: Improving Resource Utilization in Distributed Content-based Publish/Subscribe Systems. (Research Paper)</i> 10:55 Bhowmik, Tariq, Balogh, Rothermel <i>Addressing TCAM Limitations of Software-Defined Networks for Content-Based Routing. (Research Paper)</i> 11:20 Dobbelaere, Sheykh Esmail <i>Kafka versus RabbitMQ. (Industry Paper)</i> 11:40 An, Khare, Gokhale <i>An Autonomous and Dynamic Coordination and Discovery Service for Wide-Area Peer-to-peer Publish/Subscribe. (Experience Paper)</i> 12:00 Session end	10:30 Building your own modular static analyzer with Facebook Infer (cont'd) (Vertex WS216) 10:30 Distefano, O'Hearn, Blackshear <i>Building your own modular static analyzer with Facebook Infer</i>	10:30 Refinement Types for Program Verification and Synthesis (cont'd) (Vertex WS215) 10:30 Vazou, Polikarpova, Jhala <i>Refinement Types for Program Verification and Synthesis</i>	10:30 WALA Hack-A-Thon (2) (Vertex WS218) 10:30 Dolby, Ali <i>WALA Hack-A-Thon</i>	10:30 Session 3: Non-Volatile Memory/Processor and RTOS (Vertex WS208) 10:30 Wang, Zhang, Yang <i>Towards Memory-Efficient Processing-in-Memory Architecture for Convolutional Neural Networks</i> 10:55 Ding, Zhang, Jia, Ju, Zhao, Huang <i>Unified nvTCAM and sTCAM Architecture for Improving Packet Matching Performance</i> 11:20 Pan, Xie, Liu, Wang, Xue, Chen, Hu <i>A Lightweight Progress Maximization Scheduler for Non-Volatile Processor Under Unstable Energy Harvesting</i> 11:45 Dietrich, Lohmann <i>OSEK-V: Application-Specific RTOS Instantiation in Hardware</i>	10:30 S5A (Aula Master) 10:30 Vitek <i>What You Need to Know about Performance Evaluation</i>	10:30 Incremental computing 1: Keynote + Research talk (Vertex WS219) 10:30 Matsakis <i>Keynote: Incrementalizing the Rust Compiler</i> 11:40 Szabó, Völter, Erdweg <i>IncAL: A DSL for Incremental Program Analysis with Lattices</i>	10:30 Academic crypto projects; industry perspective on formal-methods integration (Vertex WS217) 10:30 Chlipala <i>Correct-by-Construction</i> 11:00 Beringer <i>Introduction to verification using the VST</i> 11:30 Nogin <i>Using formal tools to develop high-assurance software for autonomous ground vehicles</i>
Lunch (12:10 - 13:40)								
13:40 Implementation (Auditorium, Vertex Building) 13:40 A. Anderson, Liu, Kuper, Toton, Vitek, Shpeisman <i>Parallelizing Julia with a Non-invasive DSL</i> 14:05 Saleil, Feeley <i>Interprocedural Specialization of Higher-Order Dynamic Languages Without Static Analysis</i> 14:30 Vollmer, Spall, Chamith, sakka, Kulkarni, Tobin-Hochstadt, Newton <i>Compiling tree transforms to operate on packed representations</i> 14:55 Zheng, Bulej, Binder <i>An Empirical Study on Deoptimization in the Graal Compiler</i>	13:40 Session 4: Reliability and Security (Sala d'Actes, Vertex Building) 13:40 Zacheilas, Kalogeraki, Gulisano, Nikolakopoulos, Papatrifiantiflou, Tsigas <i>Maximizing Determinism in Stream Processing Under Latency Constraints. (Research Paper)</i> 14:05 Havet, Pires, Felber, Pasin, Rouvoy, Schiavoni <i>SecureStreams: A Reactive Middleware Framework for Secure Data Stream Processing. (Research Paper)</i> 14:30 Affetti, Margara, Cugola <i>FlowDB: Integrating Stream Processing and Consistent State Management. (Research Paper)</i> 14:55 Artakis, Katzouris, Correia, Baber, Morar, Skarbovsky, Fournier, Paliouras <i>A Prototype for Credit Card Fraud Management. (Industry Paper)</i>	13:40 Polyhedral Compilation (Vertex WS216) 13:40 Grosser, Zinenko <i>Polyhedral Compilation</i>	13:40 WALA Hack-A-Thon (3) (Vertex WS218) 13:40 Dolby, Ali <i>WALA Hack-A-Thon</i>		13:40 S5B (Aula Master) 13:40 Visser <i>Declarative Language Definition</i>	13:40 Incremental computing 2: Research talks (Vertex WS219) 13:40 Shah, Bodik <i>Automated Incrementalization through Synthesis</i> 14:15 Harkes, Visser <i>IceDust Calculation Strategy</i> 14:50 Larsen, Henglein <i>Composition Performance in Web Applications</i> <i>Automatic Incrementalization of Functional Reports</i>	13:40 Academic C-verification project; industry perspective on hypervisors (Vertex WS217) 13:40 Appel <i>Verifying concurrent C programs with the Verified Software Toolchain</i> 14:20 Tautschnig <i>Challenges in Analysing Virtualisation Stacks</i> 15:00 Session end	
Coffee Break (15:20 - 15:50)								

Thursday, June 22 (15:30-23:00)

	ECOOP Research Papers	DEBS Research Papers	PLDI Tutorials	LCTES	ECOOP Summer School	IC	DSW
15:50	Calculi and Semantics (Auditorium, Vertex Building) 15:50 Berger, Tratt <i>Modelling homogeneous generative meta-programming</i> 16:15 Fowler, Lindley, Wadler <i>Mixing Metaphors: Actors as Channels and Channels as Actors</i> 16:40 Fu, Perera, Anderson, Cheney <i>µPuppet: A Declarative Subset of the Puppet Configuration Language</i> 17:05 Wang, Rompf <i>Strong Normalization for Dependent Object Types (DOT)</i>	Grand Challenge (Sala d'Actes, Vertex Building) 15:50 Gulisano, Katerinenko, Jerzak, Strohbach, Ziekow <i>The DEBS 2017 Grand Challenge</i> Business Meeting (Sala d'Actes, Vertex Building) 17:30 <i>Business Meeting</i>			S5C (Aula Master) 15:50 Visser <i>Declarative Language Definition</i>	Incremental computing 3: Research talks (Vertex WS219) 15:50 Horn, Cheney <i>Incremental Relational Lenses</i> 16:25 Kohler, Haller, Erdweg, Mezzini, Salvaneschi <i>Privacy-aware Distributed Incremental Computation</i> 17:00 Headley <i>Tuning Data and Control Structures for Incremental Computation</i>	Academic hypervisor project; closing discussion (Vertex WS217) 15:30 Shao <i>CertiKOS: A Breakthrough toward Hacker-Resistant Operating Systems</i> 16:15 <i>Closing discussion</i> 17:00 Session end
19:45	DEBS Banquet (19:45-23:00)						
23:00							

