PPPJ 2015 Technical Program

Wednesday, 9 September 2015; Hartley Room, SUB

9:30 **Keynote** (Chair: Ryan Stansifer)

Gary T. Leavens, Professor and Chair, University of Central Florida
JML: Expressive Contracts, Specification Inheritance, and Behavioral Subtyping

11:00 **Session1: Java and GPU**

(Chair: Christian Wimmer)

1	*HJlib-CL: Reducing the Gap Between the JVM and Accelerators* Max Grossman, Shams Imam and Vivek Sarkar
2	*Runtime Code Generation and Data Management for Heterogeneous Computing in Java* Juan Fumero, Toomas Remmelg, Michel Steuwer and Christophe Dubach
3	*Machine-Learning-based Performance Heuristics for Runtime CPU / GPU Selection* Akihiro Hayashi, Kazuaki Ishizaki, Gita Koblents and Vivek Sarkar

14:00 **Session 2: Concurrency**

(Chair: Andreas Krall)

4	*On-Line Synchronous Total Purely Functional Data-Flow Programming on the Java Virtual Machine with Sig* Baltasar Trancón y Widemann and Markus Lepper
5	*Ohua: Implicit Dataflow Programming for Concurrent Systems* Sebastian Ertel, Christof Fetzer and Pascal Felber
6	*Toward Efficient Strong Memory Model Support for the Java Platform via Hybrid Synchronization* Aritra Sengupta, Man Cao, Michael Bond and Milind Kulkarni

16:00 **Session 3: Use of Run Time Information**

(Chair: Steven Atkin)

7	*Efficient Rebuilding of Large Java Heaps From Event Traces* Verena Bitto, Philipp Lengauer and Hanspeter Mössenböck
8	*Efficient Deterministic Replay of Multithreaded Executions in a Managed Language Virtual Machine* Michael Bond, Milind Kulkarni, Man Cao, Meisam Fathi Salmi and Jipeng Huang
9	*Efficient and Generic Event-based Profiler Framework for Dynamic Languages* Gülfem Savrun-Yeniçeri, Michael L. Van de Vanter, Per Larsen, Stefan Brunthaler and Michael Franz

Thursday, 10 September 2015; Hartley Room, SUB

9:30 Keynote (Chair: Ryan Stansifer)

Dr. Niranjan Suri, Florida Institute for Human and Machine Cognition
Java and Distributed Systems - Observations, Experiences, and ... a Wish List

11:00 **Session 4: Transformation**

(Chair: Andreas Krall)

10	*Improving the Interoperation between Generics Translations* Vlad Ureche, Milos Stojanovic, Romain Beguet, Nicolas Stucki and Martin Odersky
11	*Identifying Test Refactoring Candidates with Assertion Fingerprint* s Zheng (Felix) Fang and Patrick Lam
12	*Incremental Co-Evolution of Java Programs based on Bidirectional Graph Transformation* Sven Peldszus, Géza Kulcsár, Malte Lochau and Sandro Schulze

14:00 **Session 5: Analysis**

(Chair: Christian Wimmer)

13	*BLAST: Bytecode-Level Analysis on Sliced Traces : Tool Paper* Mohammad Reza Azadmanesh and Matthias Hauswirth
14	*Mining Method Handle Graphs for Efficient Dynamic JVM Languages* Shijie Xu, David Bremner and Daniel Heidinga
15	*SmartStealing: Analysis and Optimization of Work Stealing in Parallel Garbage Collection for Java VM* Junjie Qian, Witawas Srisa-An, Du Li, Hong Jiang, Sharad Seth and Yaodong Yang