PODC 2014 Tentative Program
(As of July 13, 2014)

Tuesday 15 July

16:00 – 19:00   **Maurice Herlihy: 60th Birthday Celebration**
19:00 – 21:00   **Reception**

Wednesday 16 July

08:55 – 09:00   **Welcome Address**
09:00 – 10:00   **Keynote Address**

      Rational and Resilient Protocols
      Silvio Micali

10:00 – 10:20   **Coffee break**

10:20 – 12:00   **Session 1: 4 regular talks** (Chair: Jennifer Welch)

10:20   Signature-Free Asynchronous Byzantine Consensus with t < n/3 and O(n2) Messages **(Best paper award)**
      Achour Mostéfaoui, Hamouma Moumen and Michel Raynal

10:45   Asynchronous MPC with a Strict Honest Majority Using Non-equivocation
      Michael Backes, Fabian Bendun, Ashish Choudhury and Aniket Kate

11:10   Distributing the Setup in Universally Composable Multi-Party Computation
      Jonathan Katz, Aggelos Kiayias, Hong-Sheng Zhou and Vassilis Zikas

11:35   A Paradox of Eventual Linearizability in Shared Memory
      Rachid Guerraoui and Eric Ruppert

12:00 – 13:30   **Lunch break**

13:30 – 14:09   **Session 2: 1 regular talks + 2 brief announcements** (Chair: Michel Raynal)

13:30   The Future(s) of Shared Data Structures
      Alex Kogan and Maurice Herlihy

13:55   BA: Are Lock-Free Concurrent Algorithms Practically Wait-Free?
      Dan Alistarh, Keren Censor-Hillel and Nir Shavit

14:02   BA: A Generic Construction for Nonblocking Dual Containers
      Joseph Izraelevitz and Michael L. Scott.

14:09 – 15:49   **Session 3: 4 regular talks** (Chair: Stefan Schmid)

14:09   Multi-Message Broadcast with Abstract MAC Layers and Unreliable Links
      Mohsen Ghaffari, Erez Kantor, Nancy Lynch and Calvin Newport

14:34   Consensus with an Abstract MAC Layer
      Calvin Newport

14:59   Simple and Efficient Local Codes for Distributed Stable Network Construction
      Othon Michail and Paul G. Spirakis.

15:24   Linear-in-Δ Lower Bounds in the LOCAL Model
      Mika Göös, Juho Hirvonen and Jukka Suomela.

16:09 – 17:24   Session 4: 3 regular talks (Chair: Nitin Vaidya)

16:09   Anonymous Networks: Randomization = 2-Hop Coloring
Yuval Emek, Christoph Pfister, Jochen Seidel and Roger Wattenhofer

16:34   Beyond Set Disjointness: The Communication Complexity of Finding the Intersection
Joshua Brody, Amit Chakrabarti, Ranganath Kondapally, David P. Woodruff and Grigory Yaroslavtsev

16: 59   Breathe before Speaking: Efficient Information Dissemination Despite Noisy, Limited and Anonymous Communication
Ofer Feinerman, Bernhard Haeupler and Amos Korman

17:24 – 18:03   Session 5: 1 regular talk + 2 brief announcements (Chair: Moti Yung)

17: 24   Estimation for Monotone Sampling: Competitiveness and Customization
Edith Cohen

17:49   BA: Towards Security and Privacy for Outsourced Data in the Multi-Party Setting
Matteo Maffei, Giulio Malavolta, Manuel Reinert and Dominique Schröder

17:56   BA: Game Theoretical Approach for Energy-Delay Balancing in Distributed Duty-Cycled MAC Protocols of Wireless Networks
Messaoud Doudou, Jose M. Barcelo Ordinas, Djamel Djenouri, Jorge Garcia Vidal and Nadjib Badache

18:03 – 20:00   Business meeting and Dijkstra Prize Ceremony

Thursday 17 July

09:00 – 10:00   Keynote Address

Coding Theory for Scalable Media Delivery
Michael Luby

10:00 – 10:20   Coffee break

10:20 – 12:00   Session 6: 4 regular talks (Chair: Alexander Shvartsman)

10:20   Distributed Connectivity Decomposition **(Best student paper award)**
Keren Censor-Hillel, Mohsen Ghaffari and Fabian Kuhn

10:45   Can Quantum Communication Speed Up Distributed Computation?
Michael Elkin, Hartmut Klauck, Danupon Nanongkai and Gopal Pandurangan

11:10   Optimal Gossip with Direct Addressing
Bernhard Haeupler and Dahlia Malkhi

11:35   Concurrent Updates with RCU: Search Tree as an Example
Maya Arbel and Hagit Attiya

12:00 – 13:30   Lunch break

13:30 – 14:09   Session 7: 1 regular talk + 2 brief announcements (Chair: Panagiota Fatourou)

13:30   Complexity Tradeoffs for Read and Update Operations
Danny Hendler and Vitaly Khait

13: 55   BA: Distributed Universality: Contention-Awareness, Wait-freedom, Object Progress, and Other Properties
Michel Raynal, Julien Stainer and Gadi Taubenfeld

14: 02   BA: Concurrency-Aware Linearizability
Nir Hemed and Noam Rinetzky

14:09 – 15:49   Session 8: 4 regular talks (Chair: Vassos Hadzilacos)

14:09   Software-Improved Hardware Lock Elision
Yehuda Afek, Amir Levy and Adam Morrison

14:34   A Generalized Asynchronous Computability Theorem
Eli Gafni, Petr Kuznetsov and Ciprian Manolescu

14:59   Balls-into-Leaves: Sub-logarithmic Renaming in Synchronous Message-Passing Systems
Dan Alistarh, Oksana Denysyuk, Luís Rodrigues and Nir Shavit

15:24   Dynamic-Sized Nonblocking Hash Tables
Yujie Liu, Kunlong Zhang and Michael Spear

15:49 – 16:00   Coffee break

16:00 – 17:40   Session 9: 4 regular talks (Chair: Seth Gilbert)

16:00   Trade-offs between Selection Complexity and Performance when Searching the Plane without Communication
Christoph Lenzen, Nancy Lynch, Calvin Newport and Tsvetomira Radeva

16:25   Improved Distributed Steiner Forest Construction
Christoph Lenzen and Boaz Patt-Shamir

16:50   Spanners and Sparsifiers in Dynamic Streams
Michael Kapralov and David P. Woodruff

17:15   Time Versus Cost Tradeoffs for Deterministic Rendezvous in Networks
Avery Miller and Andrzej Pelc

17:40 – 17:50   Short break

17:50 – 19:00   2013 ACM A.M. Turing Award Lecture

An incomplete History of Concurrency Chapter 1. 1965—1977
Leslie Lamport

19:15 – 19:30 Words and Champagne Celebration

***   Conference banquet   ***

Friday 18 July

09:00 – 10:00   Keynote Address

Rigorous System Design
Joseph Sifakis.

10:00 – 10:20   Coffee break

10:20 – 12:00   Session 10: 4 regular talks (Chair: Paul Spirakis)

10:20   How to Withstand Mobile Virus Attacks, Revisited
Joshua Baron, Karim El Defrawy, Joshua Lampkins and Rafail Ostrovsky

10:45   Born and Raised Distributively: Fully Distributed Non-Interactive Adaptively-Secure Threshold Signatures with Short Shares
Benoît Libert, Marc Joye and Moti Yung

11:10   Fast and Unconditionally Secure Anonymous Channel
Juan Garay, Clint Givens, Rafail Ostrovsky and Pavel Raykov

11:35   Distributed Algorithms for the Lovász Local Lemma and Graph Coloring
Kai-Min Chung, Seth Pettie and Hsin-Hao Su

12:00 – 13:30   Lunch break

13:30 – 14:34   Session 11: 2 regular talks + 2 brief announcements (Chair: Petr Kuznetsov)

13:30   Efficient Lock-free Binary Search Trees
Bapi Chatterjee, Nhan Nguyen and Philippas Tsigas

13:55   The Amortized Complexity of Non-blocking Binary Search Trees
Faith Ellen, Panagiota Fatourou, Joanna Helga and Eric Ruppert

14:20   BA: Gracefully Degrading Consensus and k-Set Agreement under Dynamic Link Failures
Manfred Schwarz, Kyrill Winkler, Ulrich Schmid, Martin Biely and Peter Robinson

14:27   BA: Local Approximability of Minimum Dominating Set on Planar Graphs
Miikka Hilke, Christoph Lenzen and Jukka Suomela

14:34 – 16:10   Session 12: 3 regular talks + 3 brief announcements (Chair: Joseph Sifakis)

14:34   Beyond Geometry : Towards Fully Realistic Wireless Models
Marijke H.L. Bodlaender and Magnús M. Halldórsson

14:59   On the Impact of Geometry on Ad Hoc Communication in Wireless Networks
Tomasz Jurdzinski, Dariusz R. Kowalski, Michal Rozanski and Grzegorz Stachowiak

15:24   On the Power of the Congested Clique Model
Andrew Drucker, Fabian Kuhn and Rotem Oshman

15:49   BA: Linial's Lower Bound Made Easy
Juhana Laurinharju and Jukka Suomela

15:56   BA : Super-Fast t-Ruling Sets
Tushar Bisht, Kishore Kothapalli and Sriram V. Pemmaraju

16:03   BA: Almost-Tight Approximation Distributed Algorithm for Minimum Cut
Danupon Nanongkai

16:10 – 16:30   Coffee break

16:30 – 18:10   Session 13: 4 regular talks (Chair: Luís Rodrigues)

16:30   Making Objects Writable
Zahra Aghazadeh, Wojciech Golab and Philipp Woelfel

16:55   Asynchronous Convex Hull Consensus in the Presence of Crash Faults
Lewis Tseng and Nitin H. Vaidya

17:20   Distributed Computing Building Blocks for Rational Agents
Yehuda Afek, Yehonatan Ginzberg, Shir Landau Feibish and Moshe Sulamy

17:45   Near-Optimal Communication-Time Tradeoff in Fault-Tolerant Computation of Aggregate Functions
Yuda Zhao, Haifeng Yu and Binbin Chen