

# ALENEX11 Program Schedule

January 22, 2011

Holiday Inn San Francisco Golden Gateway, San Francisco, California, USA

*All sessions will take place in **Redwood - Lower Lobby Level**,  
unless otherwise noted.*

- 8:00 AM Continental Breakfast (*Crystal Room - Lobby Level*)
- 8:30 AM **Exact Pattern Matching with Feed-Forward Bloom Filters**  
Iulian Moraru and David Andersen
- 8:50 AM **A Closer Look at the Closest String and Closest Substring Problem**  
Markus Chimani, Matthias Woste, and Sebastian Böcker
- 9:10 AM **Fast and Lightweight LCP-Array Construction Algorithms**  
Simon Gog and Enno Ohlebusch
- 9:30 AM **An Elimination Method for Solving Bivariate Polynomial Systems:  
Eliminating the Usual Drawbacks**  
Eric Berberich, Pavel Emel'yanenko and Michael Sagraloff
- 9:50 AM **A Simple Parallel Cartesian Tree Algorithm and its Application to Suffix  
Tree Construction**  
Guy Blelloch and Julian Shun
- 10:10 AM Coffee Break (*Crystal Room - Lobby Level*)
- 10:30 AM ANALCO Invited Plenary Speaker  
Robert Sedgwick, Princeton University, USA  
**Algorithms for the Masses**
- 11:30 AM Lunch Break (*attendees on their own*)
- 1:00 PM ALENEX Invited Plenary Speaker  
James Demmel, University of California at Berkeley, USA  
**Avoiding Communication in Numerical Linear Algebra**
- 2:00 PM Intermission
- 2:15 PM **Disjoint-Path Facility Location: Theory and Practice**  
Lee Breslau, Ilias Diakonikolas, Nicholas Duffield, Yu Gu, Hajiaghayi  
MohammadTaghi, David Johnson, Howard Karloff, Mauricio Resende and  
Subhabrata Sen
- 2:35 PM **Approximate Map Matching with respect to the Fréchet Distance**  
Daniel Chen, Anne Driemel, Leonidas Guibas, Andy Nguyen, and Carola Wenk

*(Continued on other side)*

## **ALENEX Program Schedule, *continued***

- 2:55 PM      **Algorithms for Matching and Predicting Trajectories**  
Jochen Eisner, Stefan Funke, Andre Herbst, Andreas Spillner, and Sabine Storandt
- 3:15 PM      **Dependent Randomized Rounding: The Bipartite Case**  
Benjamin Doerr, Marvin Künnemann and Magnus Wahlström
- 3:35 PM      **1D Vehicle Scheduling with Conflicts**  
Torsten J. Gellert and Felix G. König
- 3:55 PM      Coffee Break (*Crystal Room - Lobby Level*)
- 4:15 PM      **An SDP Approach to Multi-level Crossing Minimization**  
Markus Chimani, Philipp Hungerländer, Michael Juenger and Petra Mutzel
- 4:35 PM      **Simple and Efficient Distribution-Sensitive Point Location, in  
Triangulations**  
Pedro M. M. de Castro and Olivier Devillers
- 4:55 PM      **Engineering a Topological Sorting Algorithm for Massive Graphs**  
Deepak Ajwani, Adan Cosgaya-Lozano and Norbert Zeh
- 5:15 PM      **Sampling Graphs with a Prescribed Joint Degree Distribution Using  
Markov Chains**  
Isabelle Stanton and Ali Pinar
- 5:35 PM      **The Johnson-Lindenstrauss Transform: An Empirical Study**  
Suresh Venkatasubramanian and Qiushi Wang
- 6:00 PM      Business Meeting
- 6:30 PM      Welcome Reception (*Emerald Room - Lobby Level*)