ALENEX Program Schedule

January 16, 2010
Hyatt Regency Austin, Austin, Texas

*All sessions will take place in **Texas Ballroom III – 2nd Floor**, unless otherwise noted.*

8:00 AM   Continental Breakfast (*Hill Country-1st Floor*)

8:30 AM   **Fast Local Search for Steiner Trees in Graphs**
Renato Werneck and Eduardo Uchoa

8:50 AM   **Exact Solutions and Bounds for General Art Gallery Problems**
Tobias Baumgartner, Sandor Fekete, Alexander Kroeller and Christiane Schmidt

9:10 AM   **A Polynomial Delay Algorithm for Enumerating Approximate Solutions to the Interval Constrained Coloring Problem**
Stefan Canzar, Khaled Elbassioni and Julian Mestre

9:30 AM   **Implementation and Parallelization of a Reverse-Search Algorithm for Minkowski Sums**
Christophe Weibel

9:50 AM   **Simple and Fast Nearest Neighbor Search**
Peter Sanders, Johannes Singler, Manuel Holtgrewe and Marcel Birn

10:10 AM   Coffee Break (*Hill Country – 1st Floor*)

10:30 AM   ALENEX Invited Plenary Speaker: Peter Sanders, University of Karlsruhe, Germany
Algorithm Engineering, An Attempt at a Definition

11:30 AM   Lunch Break (*attendees on their own*)

1:00 PM   ANALCO Invited Plenary Speaker: Bruno Salvy, INRIA Rocquencourt, France
Newton Iteration: From Numerics to Combinatorics, and Back

2:00 PM   Intermission

2:15 PM   **Tabulation Based 5-Universal Hashing and Linear Probing**
Mikkel Thorup and Yin Zhang

2:35 PM   **Conjunctive Filter: Breaking the Entropy Barrier**
Daisuke Okanohara and Yuichi Yoshida

2:55 PM   **Succinct Trees in Practice**
Diego Arroyuelo, Rodrigo Ca'novas, Gonzalo Navarro and Kunihiko Sadakane

ALENEX Program Schedule, *continued*

3:15 PM   **Employing (1- Є) Dominating Set Partitions as Backbones in Wireless Sensor Networks**
Dhia Mahjoub and David Matula

3:35 PM   **Budgeted Maximum Coverage with Overlapping Costs: Monitoring the Emerging Infections Network**
Donald Curtis, Sriram Pemmaraju and Philip Polgreen.

3:55 PM   Coffee Break (*Hill Country – 1ˢᵗ Floor*)

4:15 PM   **Route Planning with Flexible Objective Functions**
Robert Geisberger, Moritz Kobitzsch and Peter Sanders

4:35 PM   **Navigation in Real-World Complex Networks through Embedding in Latent Space**
Xiaomeng Ban, Jie Gao and Arnout van de Rijt

4:55 PM   **Implementing Streaming Simplification for Large Labeled Meshes**
Catalin Constantin, Shawn Brown and Jack Snoeyink

5:15 PM   **Untangling the Braid:Finding Outliers in a Set of Streams**
Chiranjeeb Buragohain, Luca Foschini and Subhash Suri

5:35 PM   **StreamKM++: A Clustering Algorithm for Data Streams**
Marcel R. Ackermann, Christiane Lammersen, Marcus Ma"rtens, Christoph Raupach,Christian Sohler and Kamil Swierkot

6:00 PM   Business Meeting

6:30 PM   Welcome Reception (*Foothills – 17ᵗʰ Floor*)