

Vienna, Austria
June 28 - July 2, 2010

(Venue: Lecture Hall FH8,
Wiedner Hauptstrasse 8-10, 1040 Wien)

Monday, June 28, 2010

- 08:00-09:30: Registration
- 09:30-10:00: Opening
- 10:00-11:00: **Noga Alon. Color Coding: Variations and Applications**
- 11:00-11:30: Coffee Break
- 11:30-12:00: James Allen Fill.
Distributional Convergence for the Number of Symbol Comparisons used by Quick Sort.
- 12:00-12:30: Conrado Martinez and Uwe Roesler.
Partial Quicksort and Quickpartitionsort.
- 12:30-13:00: Matthew Roberts.
Almost sure asymptotics for the random binary search tree.
- 13:00-15:00: Lunch Break
- 15:00-15:30: David Laferrière, Daniel Panario and Jason Gao.
Asymptotics of Decomposable Combinatorial Structures of Alg-Log Type With Positive Log Exponent.
- 15:30-16:00: Johannes Morgenbesser.
Square root singularities of infinite systems of functional equations.
- 16:00-16:30: Mark Daniel Ward.
Asymptotic Rational Approximation To Pi: Resolving An „Unsolved Problem“ Posed By Herbert Wilf.
- 16:30-17:00: Coffee Break
- 17:00-17:30: Carlos Hoppen.
The analysis of a prioritised probabilistic algorithm to find large induced forests in regular graphs with large girth.
- 17:30-18:00: Uriel Feige and Dorit Ron.
Finding hidden cliques in linear time.
- 18:00-18:30: Aris Anagnostopoulos, Clement Dombry, Nadine guillotini-Plantard, Ioannis Konotoyiannis and Eli Upfal.
Stochastic Analysis of the $\$k\$$ -Server Problem on the Circle.
- 19:00: Welcome Reception im Festsaal (TU main building, Karlsplatz 5)

Tuesday, June 29, 2010

- 09:30-10:30: **Yuliy Baryshnikov. Search on the brink of chaos.**
- 10:30-11:00: Coffee Break
- 11:00-11:30: Philippe Flajolet, Mathieu Roux and Brigitte Vallee.
Digital Trees and Memoryless Sources .
- 11:30-12:00: Svante Janson.
Renewal theory in analysis of tries and strings.
- 12:00-12:30: Guy Louchard, Svante Janson and Anders Martin-Löf.
The maximum of Brownian motion with with parabolic drift.
- 12:30-13:00: Alexander Gnedin, Alexander Iksanov and Alexander Marynych.
The Bernoulli sieve.
- 13:00-15:00: Lunch Break
- 15:00-15:30: Yann Ponty and Olivier Bodini.
Multi-dimensional Boltzmann Sampling of Languages.
- 15:30-16:00: Dominique Gouyou-Beauchamps and Cyril Nicaud.
Random Generation Using Binomial Approximations.
- 16:00-16:30: Lucas Gerin.
Random sampling of lattice paths with constraints, via transportation.
- 16:30-17:30: Poster Session & extended Coffee Break
- 17:30-18:00: Antoine Genitrini and Bernhard Gittenberger.
No Shannon effect on probability distributions on Boolean functions induced by random expressions.
- 18:00-18:30: Lev Gordeev and Andreas Weiermann.
Phase transitions in proof theory.

Wednesday, June 30, 2010

- 09:30-10:30: **Peter Winkler. The Automaton as Statistician**
- 10:30-11:00: Coffee Break
- 11:00-11:30: Thomas Feierl.
Asymptotics for Walks in a Weyl chamber of Type B.
- 11:30-12:00: Cédric Loj, Coumède Paul-Henry and Jean Francon.
A symbolic method to compute the probability distribution of the number of pattern occurrences in random texts generated by stochastic OL-systems.
- 12:00-12:30: Cyril Banderier and Pierre Nicodème.
Bounded discrete excursions.
- 12:30-13:00: Philippe Jacquet, Charles Knessel and Wojciech Szpankowski.
Counting Markov Types.

Thursday, July 1, 2010

- 09:30-10:30: **Oliver Riordan. Percolation on graphs.**
- 10:30-11:00: Coffee Break
- 11:00-11:30: Guillaume Chapuy, Eric Fusy, Omer Gimenez and Marc Noy.
On the diameter of random planar graphs.
- 11:30-12:00: Jason Gao and Gilles Schaeffer.
The distribution of the number of small cuts in a random planar.
- 12:00-12:30: Mohammed Abdullah, Colin Cooper and Alan Frieze.
Cover time of a random graph with given degree.
- 12:30-13:00: Veronika Kraus.
The degree distribution in unlabelled 2-connected graph families.
- 13:00-15:00: Lunch Break
- 15:00-15:30: Luc Devroye, Omar Fawzi and Nicolas Fraiman.
The height of scaled attachment random recursive trees.
- 15:30-16:00: Alois Panholzer and Georg Seitz.
Ordered increasing k-trees: Introduction and analysis of a preferential attachment network model.
- 16:00-16:30: Gözl Olaf Munsonius.
The total Steiner k-distance for b-ary recursive trees and linear recursive trees.
- 16:30-17:00: Coffee Break
- 17:30-18:00: Stephan Wagner.
On unary nodes in tries.
- 18:00-18:30: Philippe Jacquet and Paul Muhlethaler.
Geometric Bucket Trees: Analysis of Linear Bucket Trees.
- 18:30-19:00: Michael Fuchs.
The variance for partial match retrievals in k-dimensional bucket digital trees
- 19:30 Conference Dinner at „Heuriger Fuhrigasslhuber“
- 22.30-23.00: Buses will bring participants back to the centre of Vienna

Friday, July 2, 2010

- 10:00-11:00: **Daniel Panario. Polynomials over Finite Fields: Algorithms and Randomness**
- 11:00-11:15: Coffee Break
- 11:15-11:45: Jérémie Lumbroso.
An optimal cardinality estimation algorithm based on order statistics and its full analysis.
- 11:45-12:15: Jakub Kozik.
Dynamic Threshold Strategy for Universal Best Choice Problem.
- 12:15-12:45: Yun Kuen Cheung and Mordecai Golin.
Analyzing a Weighted Digital Sum Variant.
- 12:45-13:15: Bergfinnur Durhuus and Soeren Eilers.
Combinatorial aspects of pyramids of one-dimensional pieces of fixed integer length.
- 13:15-15:00: Lunch Break
- 15:00-15:30: Páidi Creed and Mary Cryan.
The number of Euler tours of random d-in/d-out graphs.
- 15:30-16:00: Kunal Dutta and C.R. Subramanian.
Induced acyclic subgraphs in random digraphs: Improved bounds.
- 16:00-16:30: Thomas Fernique and Damien Regnault.
Stochastic flips on dimertilings.
- 16:30-17:00: Coffee Break
- 17:30-18:00: Stephen Chestnut and Manuel Lladser.
Occupancy distributions in Markov chains via Doeblin's ergodicity coefficient.
- 18:00-18:30: Jacek Cichon and Marek Klonowski.
A Note on Invariant Random Variables.
- Closing of Conference