FSTTCS 2000

India International Centre, New Delhi, India

13–15 December 2000

http://www.cse.iitd.ernet.in/~fsttcs20

Programme

13 December 2000

0900–0930 : Opening

0930–1030 : Invited Talk

Model Checking: Theory into Practice
E Allen Emerson

1030–1100 : Tea

1100–1230 : Session 1a

Fast On-line/Off-line Algorithms for Optimal Reinforcement of a Network and its Connections with Principal Partition
H. Narayanan and Sachin B. Patkar

On-Line Edge-Coloring with a Fixed Number of Colors
Lene Monrad Favrholdt and Morten Nyhave Nielsen

On Approximability of the Independent/Connected Edge Dominating Set Problems
Toshihiro Fujito

1100–1230 : Session 1b

Model checking CTL Properties of Pushdown Systems
Igor Walukiewicz

A Decidable Dense Branching-time Temporal Logic
Salvatore La Torre and Margherita Napoli

Fair Equivalence Relations
Orna Kupferman, Nir Piterman and Moshe Vardi

1230–1400 : Lunch

1400–1500 : Invited Talk

An Algebra for XML Query
Philip Wadler

1500–1530 : Tea

1530–1700 : Session 2a

Arithmetic Circuits and Polynomial Replacement Systems
Pierre McKenzie, Heribert Vollmer and Klaus W. Wagner

Depth-3 arithmetic circuits for S(2,n)(X) and extensions of the Graham-Pollack theorem
Jaikumar Radhakrishnan, Pranab Sen and Sundar Vishwanathan

The Weak Monadic Quantifier Alternation Hierarchy of Equational Graphs is Infinite
Ly Olivier

1530–1700 : Session 2b

Combining Semantics with Non-Standard Interpreter Hierarchies
Sergei Abramov and Robert Glueck

Using Modes to Ensure Subject Reduction for Typed Logic Programs with Subtyping
Jan-Georg Smaus, Francois Fages and Pierre Deransart

Dynamically Ordered Probabilistic Choice Logic Programming
Marina De Vos and Dirk Vermeir

1830–2000 : IARCS Business Meeting

14 December 2000

0900–1000 : Invited Talk

Irregularities of Distribution, Derandomization, and Complexity Theory
Bernard Chazelle

1010–1110 : Session 3a

Coordinatized Kernels and Catalytic Reductions: Improved FPT Algorithms for Max Leaf Spanning Tree and Other Problems
Michael R. Fellows, Catherine McCartin, Ulrike Stege and Frances A. Rosamond

Planar Graph Blocking for External Searching

Surender Baswana and Sandeep Sen

1010–1110 : Session 3b

A Complete Fragment of Higher-Order Duration μ-Calculus
Dimitar P. Guelev

A Complete Axiomatisation for Timed Automata
Huimin Lin and Wang Yi

1110–1130 : Tea

1130–1230 : Session 4a

Text Sparsification via Local Maxima
Pierluigi Cresceznzi, Alberto Del Lungo, Roberto Grossi, Elena Lodi, Linda Palgi and Gianluca Rossi

Approximate Swapped Matching
A Amir, M Lewenstein and E. Porat

1130–1230 : Session 4b

Semantic Theory for Heterogeneous System Design
Rance Cleaveland and Gerald Luettgen

Formal Verification of the Ricart-Agrawala Algorithm
Ekaterina Sedletsky, Amir Pnueli and Mordechai Ben-Ari

1230–1400 : Lunch

1400–1500 : Invited Talk

Rewriting Logic as a Metalogical Framework
Jose Meseguer

1500–1530 : Tea

1530–1700 : Session 5a

On distribution-specific learning with membership queries versus pseudorandom generation
Johannes Köbler and Wolfang Lindner

Θ_2^p-completeness: A classical approach for new results
Joel Vogel and Holger Spakowski

Is the Standard Proof System for SAT P-optimal?
Johannes Köbler and Jochen Messner

1530–1700 : Session 5b

A General Framework for Types in Graph Rewriting
Barbara Koenig

The Ground Congruence for Chi Calculus
Yuxi pFu and Zhenrong Yang

Inheritance in the Join Calculus
Cedric Fournet, Cosimo Laneve, Luc Maranget and Didier Remy

15 December 2000

0900–1000 : Invited Talk

Frequency Assignment in Mobile Phone Systems
Martin Grtschel

1010–1110 : Session 6a

Approximation Algorithms for Bandwidth and Storage Allocation Problems under Real Time Constraints
Stefano Leonardi, Alberto Marchetti-Spaccamela and Andrea Vitaletti

Dynamic Spectrum Allocation: The Impotency of Duration Notification
Bala Kalyanasundaram and Kirk Pruhs

1010–1110 : Session 6b

The Fine Structure of Game Lambda Models
Pietro Di Gianantonio and Gianluca Franco

Strong Normalisation of Second Order Symmetric Lambda-calculus
Michel Parigot

1110–1130 : Tea

1130–1230 : Session 7a

Scheduling to minimize the average completion time of dedicated tasks
Foto Afrati, Eviripidis Bampis, Aleksei V. Fishin, Klaus Jansen and Claire Keyon

Hunting for Functionally Analogous Genes
M. T. Hallett and J. Lagergren

1130–1230 : Session 7b

Keeping Track of the Latest Gossip in Shared Memory Systems
Bharat Adsul, Aranyak Mehta and Milind Sohoni

On Concurrent Knowledge and Logical Clock Abstractions
Ajay Kshemkalyani

1230–1400 : Lunch

1400–1500 : Invited Talk

Data Provenance: Some Basic Issues
Peter Buneman

1500–1530 : Tea

1530–1630 : Session 8

Decidable Hierarchies of Starfree Languages
Christian Glasser and Heinz Schmitz

Prefix languages of Church-Rosser languages
Jens R. Woinowski

1630–1700 : Closing

Satellite Workshops

Recent Advances In Programming Languages
December 11–12, 2000

11 December 2000

0900–0910 Opening

0910–1110 *Synchronous programming of hardware and software controllers: Esterel and Syncharts*
Gerard Berry, Ecole de Mines/INRIA

1130-1300 *State and abstraction in object-oriented programming Semantics and Formal Methods*
Uday Reddy, Birmingham

1400–1530 *Regular Expression Types for XML*
Benjamin Pierce, U Penn

1600-1730 *Constraint Logic Programming and Its Applications*
Gopal Gupta, U Texas, Dallas

12 December 2000

0900–1100 *Class Loading Issues in Java*
Gilad Bracha, Sun

1130-1300 *Persistence and Java*
Gary Lindstroml, Utah

Workshop on Computational Geometry
December 16–17, 2000

16 December, 2000

1000–1115 *Combinatorics of Arrangements - Recent Progress*
Micha Sharir, Tel Aviv University

1115–1230 *Visibility based robot motion planning*
Subir Ghosh, TIFR

1430–1545 *Algorithms for path planning in the presence of moving obstacles and movable obstacles*
Kamala Krithivasan, IIT Madras

1545-1700 *A Randomized Algorithm for Triangulating a Simple Polygon in Linear Time*
Edgar Ramos, MPI

17 December, 2000

0930–1045 *Efficient algorithms for geometric clustering An overview*
Pankaj Agarwal, Duke University

1045-1200 *To be announced*
Sanjiv Kapoor, IIT Delhi

1330-1445 *Ocelot: The Lucent Cellular Optimization Tool*
Ken Clarkson, Bell Labs