

LIST OF ACCEPTED PAPERS

REGULAR PRESENTATIONS

CBTree: A Practical Concurrent Self-Adjusting Search Tree

Yehuda Afek, Haim Kaplan, Boris Korenfeld, Adam Morrison, Robert E. Tarjan

Efficient Fetch-and-Increment

Faith Ellen, Vijaya Ramachandran, Philipp Woelfel

Show No Weakness: Sequentially Consistent Specifications of TSO Libraries

Alexey Gotsman, Madanlal Musuvathi, Hongseok Yang

Collecting Information by Power-Aware Mobile Agents

Julian Anaya, Jeereemie Chalopin, Jurek Czyzowicz, Arnaud Labourel, Andrzej Pelc, Yann Vaxes

Memory Lower Bounds for Randomized Collaborative Search and Implications for Biology

Ofer Feinerman, Amos Korman

A Generalized Algorithm for Publish/Subscribe Overlay Design and its Fast Implementation

Chen Chen, Roman Vitenberg, Hans-Arno Jacobsen

Bounded-Contention Coding for Wireless Networks in the High SNR Regime

Keren Censor-Hillel, Bernhard Haeupler, Nancy Lynch, Muriel Medard

Distributed Backbone Structure for Algorithms in the SINR Model of Wireless Networks

Tomasz Jurdzinski, Dariusz R. Kowalski

Distributed Online and Stochastic Queuing on a Multiple Access Channel

Marcin Bienkowski, Tomasz Jurdzinski, Mirosław Korzeniowski, Dariusz R. Kowalski

Fast Distributed Computation in Dynamic Networks via Random Walks

Atish Das Sarma, Anisur Rahaman Molla, Gopal Pandurangan

Dense Subgraphs on Dynamic Networks

Atish Das Sarma, Ashwin Lall, Danupon Nanongkai, Amitabh Trehan

Lower Bounds on Information Dissemination in Dynamic Networks

Bernhard Haeupler, Fabian Kuhn

No Sublogarithmic-Time Approximation Scheme for Bipartite Vertex Cover

Mika Goos, Jukka Suomela

"Tri, Tri Again": Finding Triangles and Small Subgraphs in a Distributed Setting

Danny Dolev, Christoph Lenzen, Shir Peled

Distributed 2-Approximation Algorithm for the Semi-Matching Problem

Andrzej Czygrinow, Michał Hanckowiak, Edyta Szymanska, Wojciech Wawrzyniak

Bounds on Contention Management in Radio Networks

Mohsen Ghaffari, Bernhard Haeupler, Nancy Lynch, Calvin Newport

Efficient Symmetry Breaking in Multi-Channel Radio Networks

Sebastian Daum, Fabian Kuhn, Calvin Newport

On Byzantine Broadcast in Loosely Connected Networks
Alexandre Maurer, Sebastien Tixeuil

RMR-Efficient Randomized Abortable Mutual Exclusion
Abhijeet Pareek, Philipp Woelfel

Abortable Reader-Writer Locks are No More Complex Than Abortable Mutex Locks
Prasad Jayanti, Zhiyu Liu

Pessimistic Software Lock-Elision
Yehuda Afek, Alexander Matveev, Nir Shavit

Asynchronous Pattern Formation by Anonymous Oblivious Mobile Robots
Nao Fujinaga, Yukiko Yamauchi, Shuji Kijima, Masafumi Yamashita

How to Gather Asynchronous Oblivious Robots on Anonymous Rings
Gianlorenzo D'Angelo, Gabriele Di Stefano, Alfredo Navarra

Position Discovery for a System of Bouncing Robots
Jurek Czyzowicz, Leszek Gasieniec, Adrian Kosowski, Evangelos Kranakis, Oscar Morales Ponce, Eduardo Pacheco

Counting-Based Impossibility Proofs for Renaming and Set Agreement
Hagit Attiya, Ami Paz

Randomized Distributed Decision
Pierre Fraigniaud, Amos Korman, Merav Parter, David Peleg

The Strong At-Most-Once Problem
Sotirios Kentros, Chadi Kari, Aggelos Kiayias

BRIEF ANNOUNCEMENTS

Wait-Free Gathering of Mobile Robots

Zohir Bouzid, Shantanu Das, Sebastien Tixeuil

Distributed Exclusive and Perpetual Tree Searching

Lelia Blin, Janna Burman, Nicolas Nisse

Reaching Approximate Byzantine Consensus in Partially-Connected Mobile Networks

Chuanyou Li, Michel Hurfin, Yun Wang

Distributed Algorithms for Maximum Link Scheduling in the Physical Interference Model

Guanhong Pei, Anil Kumar S. Vullikanti

A Fast Distributed Approximation Algorithm for Minimum Spanning Trees in the SINR Model

Maleq Khan, Gopal Pandurangan, Guanhong Pei, Anil Kumar S. Vullikanti

Deterministic Protocol for the Membership Problem in Beeping Channels

Bojun Huang

Probabilistic Stabilization under Probabilistic Schedulers

Yukiko Yamauchi, Sebastien Tixeuil, Shuji Kijima, Masafumi Yamashita

An Analysis Framework for Distributed Hierarchical Directories

Gokarna Sharma, Costas Busch

Flooding in Dynamic Graphs with Arbitrary Degree Sequence

Herve Baumann, Pierluigi Crescenzi, Pierre Fraigniaud

Node Sampling Using Centrifugal Random Walks

Andres Sevilla, Alberto Mozo, Antonio Fernandez Anta

Concurrent Wait-Free Red-Black Trees

Aravind Natarajan, Lee Savoie, Neeraj Mittal

A Contention-Friendly, Non-Blocking Skip List

Tyler Crain, Vincent Gramoli, Michel Raynal

Consensus and Efficient Passive Replication

Flavio Junqueira, Marco Serafini

Anonymity, Failures, Detectors and Consensus

Zohir Bouzid, Corentin Travers

Do VNet Embeddings Leak Information about ISP Topology?

Yvonne-Anne Pignolet, Stefan Schmid, Gilles Tredan

Efficient Private Distributed Computation on Unbounded Input Streams

Shlomi Dolev, Juan Garay, Niv Gilboa, Vladimir Kolesnikov, Yelena Yuditsky

Fast Travellers: Infrastructure-Independent Deadlock Resolution in Resource-Restricted Distributed Systems

Sebastian Ertel, Christof Fetzer, Michael J. Beckerle

Hashed Predecessor Patricia Trie---A Data Structure for Efficient Predecessor Queries in Peer-to-Peer Systems

Sebastian Kniesburges, Christian Scheideler

Naming and Counting in Anonymous Unknown Dynamic Networks
Othon Michail, Ioannis Chatzigiannakis, Paul G. Spirakis

SplayNets Towards Self-Adjusting Distributed Data Structures
Stefan Schmid, Chen Avin, Christian Scheideler, Bernhard Haeupler, Zvi Lotker

Semantics of Eventually Consistent Replicated Sets
Annette Bieniusa, Marek Zawirski, Nuno Preguica, Marc Shapiro, Carlos Baquero, Valter Balegas, Sergio Duarte

Decoupled and Consensus-Free Reconfiguration for Fault-Tolerant Storage
Eduardo Alchieri, Alysson Bessani, Fabiola Greve, Joni Fraga

Atomic Consistency and Partition Tolerance in Scalable Key-Value Stores
Cosmin Arad, Tallat M. Shafaat, Seif Haridi

Weighted Partial Message Matching for Implicit Multicast Systems
William Culhane, K. R. Jayaram, Patrick Eugster