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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Informative Labeling Schemes -- Noetherian Spaces in Verification -- Towards a Theory of Time-Bounded Verification -- Physical Algorithms -- Session 1-Track B. Automata -- Optimal Zielonka-Type Construction of Deterministic Asynchronous Automata -- Pumping and Counting on the Regular Post Embedding Problem -- Alternation Removal in Büchi Automata -- Linear Orders in the Pushdown Hierarchy -- Session 1-Track C. Communication in Networks -- The Serializability of Network Codes -- How Efficient Can Gossip Be? (On the Cost of Resilient Information Exchange) -- Efficient Information Exchange in the Random Phone-Call Model -- An O(logn)-Competitive

Online Centralized Randomized Packet-Routing Algorithm for Lines -- Session 2-Track B. Formal Languages -- A Topological Approach to Recognition -- On LR(k)-Parsers of Polynomial Size -- On Erasing Productions in Random Context Grammars -- Session 4-Track B. Semantics -- Game Semantics for Call-by-Value Polymorphism -- What Is a Pure Functional? -- Example-Guided Abstraction Simplification -- Compositional Closure for Bayes Risk in Probabilistic Noninterference -- Session 4-Track C. Fault Tolerance, Ranking -- Asynchronous Throughput-Optimal Routing in Malicious Networks -- Improved Fault Tolerance and Secure Computation on Sparse Networks -- Sparse Reliable Graph Backbones -- Approximation Algorithms for Diversified Search Ranking -- Session 5-Track B. Graphs, Categories and Quantum Information -- Rewriting Measurement-Based Quantum Computations with Generalised Flow -- The Compositional Structure of Multipartite Quantum Entanglement -- Compositionality in Graph Transformation -- Session 6-Track B. Best Paper Award -- On p-Optimal Proof Systems and Logics for PTIME -- Session 6-Track C. Best Paper Award -- Placing Regenerators in Optical Networksto Satisfy Multiple Sets of Requests -- Session 7-Track B. Logic -- Maximal Decidable Fragments of Halpern and Shoham's Modal Logic of Intervals -- B and D Are Enough to Make the Halpern–Shoham Logic Undecidable -- Parameterized Modal Satisfiability -- Automata for Coalgebras: An Approach Using Predicate Liftings -- Session 7-Track C. Privacy, Selfishness -- Resolving the Complexity of Some Data Privacy Problems -- Private and Continual Release of Statistics -- Envy-Free Pricing in Multi-item Markets -- Contention Resolution under Selfishness -- Session 8-Track B. Concurrency -- On the Expressiveness of Polyadic and Synchronous Communication in Higher-Order Process Calculi -- On Bisimilarity and Substitution in Presence of Replication -- The Downward-Closure of Petri Net Languages -- Reachability Games on Extended Vector Addition Systems with States -- Session 8-Track C. Mobile Agents -- Modelling Mobility: A Discrete Revolution -- Tell Me Where I Am So I Can Meet You Sooner -- Rendezvous of Mobile Agents without Agreement on Local Orientation -- Session 9-Track B. Probabilistic Computation -- Probabilistic Automata on Finite Words: Decidable and Undecidable Problems -- Space-Efficient Scheduling of Stochastically Generated Tasks -- Exponential Lower Bounds for Policy Iteration -- Session 10-Track B. Automata -- Regular Temporal Cost Functions -- Model Checking Succinct and Parametric One-Counter Automata -- Pebble Weighted Automata and Transitive Closure Logics -- Energy Parity Games.

Sommario/riassunto

ICALP 2010, the 37th edition of the International Colloquium on Automata, Languages and Programming was held July 6-10, 2010 in Bordeaux, France. ICALP is a series of annual conference of the European Association for Th- retical Computer Science (EATCS) which ? rst took place in 1972, organized by MauriceNivatandhiscolleaguesinParis.Thisyear, theprogramconsistedofthe established trackA, focusing on Algorithms, Complexity and Games, chairedby Paul G. Spirakis; Track B, focusing on Logic, Semantics, Automata and Theory of Programming, chaired by Samson Abramsky; Track C focusing this year on Foundations of Networked Computation: Models, Algorithms and Information Management, chaired by Friedhelm Meyer auf der Heide. The three Program Committees received a total of 389 submissions: 222 for TrackA,114forTrackBand53forTrackC,writtenbyauthorsfrom45di'erent countries. Of these, 60, 30 and 16, respectively, were selected for inclusion in the scienti'c program. Each paper got on average 3.5 referee reports. The Programalsoincluded six invitedtalks

byPierreFraigniaud(CNRS and Univ.ParisDiderot),JeanGoubault-Larrecq (ENSCachanandLSV),Burkhard Monien (Univ. Paderborn), Joel Ouaknine (Oxford Univ. Computing Lab.), Roger Wattenhofer (ETH Zurich), and Emo Welzl (ETH Zurich). These 112 contributed and invited papers are presented in two proceedings volumes. The ?rst contains the contributed papers of Track A and the invited talks of Burkhard Monien and Emo Welzl. The second volume contains the contributed papers of Tracks B and C as well as the invited talks of Pierre Fraigniaud, Jean Goubault-Larrecq, Joel Ouaknine and Roger Wattenhofer.