Thursday March 14th, 2024
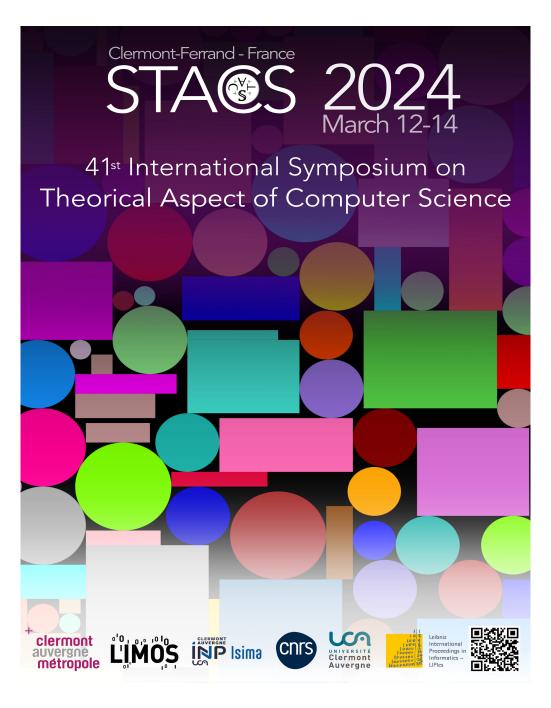
time slot	Amphi 1	Amphi 2
08:00-08:45	Coffee	
	Session 13 (Track A) — chair: ALEXANDRE VIGNY	Session 14 (Track B) — chair: MARKUS BLAESER
08:45-09:10	KATARZYNA KOWALSKA: *"Parameterized and approximation algorithms for coverings points with segments in the plane"*	EMRE YOLCU: *"Lower bounds for set-blocked clauses proofs"*
09:10-09:35	TARA ABRISHAMI: *"Max Weight Independent Set in sparse graphs with no long claws"*	PIERRE OHLMANN: *"Positionality in Σ_2^0 and a completeness result"*
09:35-10:00	SEBASTIAN HASLEBACHER: *"On the Exact Matching Problem in Dense Graphs"*	HARSH BEOHAR: *"Expressive Quantale-valued Logics for Coalgebras: an Adjunction-based Approach"*
10:00-10:25	⋆ HAITAO WANG: *"Algorithms for Computing Closest Points for Segments"*	JULIAN DCOSTA: *"Nonnegativity Problems for Matrix Semigroups"*
10:25-11:00	Coffee break	
11:00-12:00	**Invited speaker:** SOFYA RASKHODNIKOVA: — chair: DANIEL LOKSHTANOV *"The Role of Local Algorithms in Privacy"* — Amphi 1	
12:30-14:00	Lunch and coffee	

⋆: online presentation

Two rooms with blackboards are open for free discussions. They are the rooms *A001* and *A211* in ISIMA building (follow the "Discussion rooms" arrows). Please feel free to use them.

We kindly ask the presenters to upload their **pdf** presentation on the plugged computer **before** the start of the session. Please make yourself known to the chair.

Clermont-Ferrand - France
STACS 2024
March 12-14

41st International Symposium on Theorical Aspect of Computer Science

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Tuesday March 12th, 2024

time slot	Amphi 1	Amphi 2
08:30-09:30	Registration	
09:30-09:45	Welcome — Amphi 1	
	Session 1 (Track A) — chair: CHRISTOPHE PAUL	Session 2 (Track A) — chair: SOPHIE HUIBERTS
09:50-10:15	HARRIS DAVID: *"A faster algorithm for Vertex Cover parameterized by solution size"*	ZEKUN YE: *"Quantum and Classical Communication Complexity of Permutation-Invariant Functions"*
10:15-10:40	JAKUB BALABAN: *"Computing Twin-Width Parameterized by the Feedback Edge Number"*	GEOFFROY CAILLAT-GRENIER: *"Spectral approach to the communication complexity of multi-party key agreement"*
10:40-11:05	⋆ IGOR RAZGON: *"FPT Approximation of Generalised Hypertree Width for Bounded Intersection Hypergraphs"*	JESSE VAN RHIJN: *"Worst-Case and Smoothed Analysis of Hartigan's Method for k-Means Clustering"*
11:05-11:30	⋆ ILDIKO SCHLOTTER: *"Shortest Two Disjoint Paths in Conservative Graphs"*	⋆ SWAGATO SANYAL: *"Randomized query composition and product distributions"*
11:30-13:00	Lunch	
13:00-14:00	**Invited speaker:** SZYMON TORUŃCZYK: — chair: MAMADOU M. KANTÉ *"Structurally tractable graph classes"* — Amphi 1	
14:00-14:20	Coffee break	
	Session 3 (Track A) — chair: IOAN TODINCA	Session 4 (Track A) — chair: CYRIL NICAUD
14:20-14:45	JACK DIPPEL: *"One n Remains to Settle the Tree Conjecture"*	AGRIM DEWAN: *"Testing equivalence to design polynomials"*
14:45-15:10	CHRISTOPHE PAUL: *"Tree-Layout Based Graph Classes: Proper Chordal Graphs"*	DHARA THAKKAR: *"On the power of border width-2 ABPs over fields of characteristic 2"*
15:10-15:35	LAURENT VIENNOT: *"Temporalizing digraphs via linear-size balanced bi-trees"*	JACEK KRZACZKOWSKI: *"Circuit equivalence in 2-nilpotent algebras"*
15:35-16:00	FLORIAN ANDREAS MARWITZ: *"Faster Graph Algorithms Through DAG Compression"*	MICHAEL KOMPATSCHER: *"The subpower membership problem of 2-nilpotent algebras"*
16:00-16:20	Coffee break	
	Session 5 (Track A) — chair: KIM THANG NGUYEN	Session 6 (Track A) — chair: ANTOINE AMARILLI
16:20-16:45	YUTONG YANG: *"A Faster Algorithm for Constructing the Frequency Difference Consensus Tree"*	LISA WILHELMI: *"Algorithms for Claims Trading"*
16:45-17:10	FRANZISKA EBERLE: *"$O(1/\varepsilon)$ is the answer in online weighted throughput maximization"*	DANIEL NEUEN: *"Homomorphism-Distinguishing Closedness for Graphs of Bounded Tree-Width"*
17:10-17:35	FABIAN FREI: *"Removable Online Knapsack and Advice"*	NINA RUNDE: *"The Complexity of Homomorphism Reconstructibility"*
17:35-18:00	MATTHIAS GEHNEN: *"Online Simple Knapsack with Bounded Predictions"*	OLEG VERBITSKY: *"On a Hierarchy of Spectral Invariants for Graphs"*
18:30-22:30	Welcome Food and Drinks: Regional Products Tasting - ISIMA building, room A002	

⋆: online presentation

Wednesday March 13th, 2024

time slot	Amphi 1	Amphi 2
08:00-08:45	Coffee	
	Session 7 (Track A) — chair: LAURENT VIENNOT	Session 8 (Track B) — chair: MARKUS LOHREY
08:45-09:10	SEBASTIEN ZEITOUN: *"Local certification of local properties: tight bounds, trade-offs and new parameters"*	STEFAN GOELLER: *"The AC0-Complexity Of Visibly Pushdown Languages"*
09:10-09:35	ANKITA SARKAR: *"Fault-tolerant k-Supplier with Outliers"*	NICOLA COTUMACCIO: *"A Myhill-Nerode Theorem for Generalized Automata, with Applications to Pattern Matching and Compression"*
09:35-10:00	MARCIN BIENKOWSKI: *"A Subquadratic Bound for Online Bisection"*	IRMAK SAGLAM: *"Directed Regular and Context-Free Languages"*
10:00-10:25	PETER STRULO: *"Decremental Sensitivity Oracles for Covering and Packing Minors"*	JAMES MAIN: *"Arena-independent Memory Bounds for Nash Equilibria in Reachability Games"*
10:25-10:40	Coffee break	
	Session 9 (Track A) — chair: FLORIN MANEA	Session 10 (Track B) — chair: THOMAS SCHWENTICK
10:40-11:05	GUY EVEN: *"An Improved Approximation Algorithm for Dynamic Minimum Linear Arrangement"*	RICCARDO GOZZI: *"Solving discontinuous initial value problems with unique solutions is equivalent to computing over the transfinite"*
11:05-11:30	PHILIP SIMON WHITTINGTON: *"The 2-Attractor Problem is NP-Complete"*	ANTON VARONKA: *"Linear Loop Synthesis for Quadratic Invariants"*
11:30-11:55	JAKUB JAN RADOSZEWSKI: *"Approximate Circular Pattern Matching under Edit Distance"*	NICOLAS BITAR: *"Contributions to the Domino Problem: Seeding, Recurrence and Satisfiability"*
11:55-12:20	TERESA ANNA STEINER: *"Gapped String Indexing in Subquadratic Space and Sublinear Query Time"*	DIETRICH KUSKE: *"Modal logic is more succinct iff bi-implication is available in some form"*
12:20-13:25	Lunch	
13:25-13:45	Coffee break	
13:45-14:45	**Invited speaker:** IGOR CARBONI OLIVEIRA: — chair: OLAF BEYERSDORFF *"Polynomial-Time Pseudodeterministic Constructions"* — Amphi 1	
14:45-15:15	Coffee break	
	Session 11 (Track A) — chair: MOSHE LEWENSTEIN	Session 12 (Track B) — chair: DIETRICH KUSKE
15:15-15:40	GIANLUCA TASINATO: *"Hardness of linearly ordered 4-colouring of 3-colourable 3-uniform hypergraphs"*	FLORIN MANEA: *"Semënov Arithmetic, Affine VASS, and String Constraints"*
15:40-16:05	VLADIMIR LYSIKOV: *"Fixed-parameter debordering of Waring rank"*	C. AISWARYA: *"Satisfiability of Context-free String Constraints with Subword ordering and Transducers"*
16:05-16:30	TAMEEM SALMAN CHOUDHURY: *"Depth-3 Circuit Lower Bounds for k-OV"*	ERIK PAUL: *"Weighted HOM-Problem for Nonnegative Integers"*
16:30-16:55	⋆ LIU YING: *"The sub-exponential time lower bounds for #VC and #Matching"*	HERMANN WILHELM: *"A characterization of efficiently compilable constraint languages"*
17:00-18:00	Business meeting: report and feelings of authors	
19:30-22:00	Conference Dinner - Brasserie Madeleine - city center	