

WALCOM 2024 Schedule

March 17	Registration 16:00-18:00	
March 18	Registration 9:00-17:00	
	Session 1 (Invited Talk 1: Chair Ryuhei Uehara) 9:30-10:30	
	Recent Research Activities on Algorithmic Foundations for Social Advancement	Shin-ichi Minato
	Coffee Break 10:30-11:00	
	Session 2 (Graph Drawing: Chair Shin-ichi Nakano) 11:00-11:50	
	Plane Multigraphs with One-Bend and Circular-Arc Edges of a Fixed Angle	Csaba Toth
	[Best student paper] Quantum Graph Drawing	Susanna Caroppo, Giordano Da Lozzo and Giuseppe Di Battista
	Lunch on your own 11:50-13:30	
	Session 3 (Geometric graphs: Chair Kazuhiro Kurita) 13:30-14:45	
	Simultaneous Drawing of Layered Trees	Axel Kuckuk, Julia Katheder, Stephen Kobourov, Maximilian Pfister and Johannes Zink
	Fully Dynamic Algorithms for Euclidean Steiner Tree	T-H. Hubert Chan, Gramoz Goranci, Shaofeng H.-C. Jiang, Bo Wang and Quan Xue
	The Parameterized Complexity of Terminal Monitoring Set	N R Aravind and Roopam Saxena
	Break 14:45-15:00	
	Session 4 (Gray codes and MAX-SAT: Chair Katsuhisa Yamanaka) 15:00-16:15	
	Generating cyclic 2-Gray codes for Fibonacci q-decreasing words	Dennis Wong, Bowie Liu, Chan-Tong Lam and Marcus Im
	On the Hardness of Gray Code Problems for Combinatorial Objects	Arturo Merino, Aaron Williams and Namrata
	On MAX-SAT with Cardinality Constraint	Fahad Panolan and Hannane Yaghoubzade
	Coffee Break 16:15-16:45	
	Session 5 (Computational Geometry: Chair Akira Suzuki) 16:45-18:00	
	Minimizing Corners in Colored Rectilinear Grids	Thomas Depian, Alexander Dobler, Christoph Kern and Jules Wulms
	On Layered Area-Proportional Rectangle Contact Representations	Carolina Haase and Philipp Kindermann
	Short Flip Sequences to Untangle Segments in the Plane	Guilherme D. Da Fonseca, Yan Gerard and Bastien Rivier
March 19	Registration 9:00-17:00	
	Session 6 (Invited Talk 2: Chair Takehiro Ito) 9:30-10:30	
	Reasons to Fall (More) in Love with Combinatorial Reconfiguration	Naomi Nishimura
	Coffee Break 10:30-11:00	
	Session 7 (Approximation Algorithms: Chair Mingyu Xiao) 11:00-11:50	
	Improved Approximation Algorithms for Cycle and Path Packings	Jingyang Zhao and Mingyu Xiao
	Exact and Approximate Hierarchical Hub Labeling	Ruoying Li and Sabine Storandt
	Group photo 11:50-12:00	
	Lunch on your own 12:00-13:30	
	Session 8 (Combinatorial Reconfiguration: Chair Yushi Uno) 13:30-14:45	
	Reconfiguration of Multisets with Applications to Bin Packing	Jeffrey Kam, Shahin Kamali, Avery Miller and Naomi Nishimura
	The Shortest Path Reconfiguration Problem Based on Relaxation of Reconfiguration Rules	Naoki Domon, Akira Suzuki, Yuma Tamura and Xiao Zhou
	Combinatorial Reconfiguration with Answer Set Programming: Algorithms, Encodings, and Empirical Analysis	Yuya Yamada, Mutsunori Banbara, Katsumi Inoue, Torsten Schaub and Ryuhei Uehara
	Break 14:45-15:00	
	Session 9 (Graph Algorithms 1: Chair Yota Otachi) 15:00-16:15	
	A bisection approach to subcubic maximum induced matching	Gordon Hoi, Sanjay Jain, Ammar Fathin Sabili and Frank Stephan
	Stable and Dynamic Minimum Cuts	Andrés López Martínez, Mark de Berg and Frits Spiessma
	Black Hole Search in Dynamic Cactus Graph	Adri Bhattacharya, Giuseppe Francesco Italiano and Partha Sarathi Mandal
	Coffee Break 16:15-16:45	
	Session 10 (Graphs and Matrices: Chair Yoshio Okamoto) 16:45-18:00	
	Recognition and Isomorphism of Proper H-graphs for unicyclic H in FPT-time	Deniz Ağaoğlu Çağırıcı and Peter Zeman
	Canonization of a random circulant graph by counting walks	Oleg Verbitsky and Maksim Zhukovskii
	Counting Vanishing Matrix-Vector Products	Cornelius Brand, Viktoriia Korchemna, Michael Skotnica and Kirill Simonov
	Banquet and Business Meeting (Tokyu Hotel) 18:30-20:30	
March 20	Registration 9:00-12:00	
	Session 11 (Graph Algorithms 2: Chair Hirotaka Ono) 9:30-10:45	
	Efficient Enumeration of Drawings and Combinatorial Structures for Maximal Planar Graphs	Giordano Da Lozzo, Giuseppe Di Battista, Fabrizio Frati, Fabrizio Grosso and Maurizio Patrignani
	(t,s)-completely Independent Spanning Trees	Shin-ichi Nakano
	Orientable Burning Number of Graphs	Julien Courtiel, Paul Dorbec, Tatsuya Gima, Romain Lecoq and Yota Otachi
	Break 10:45-11:00	
	Session 12 (Graph Algorithms 3: Chair Toshiki Saitoh) 11:00-12:15	
	Dichotomies for Tree Minor Containment with Structural Parameters	Tatsuya Gima, Soh Kumabe, Kazuhiro Kurita, Yuto Okada and Yota Otachi
	[Best paper] Structural Parameterizations of Vertex Integrity	Tatsuya Gima, Teshu Hanaka, Yasuaki Kobayashi, Ryota Murai, Hirotaka Ono and Yota Otachi
	On the Complexity of List H-Packing for Sparse Graph Classes	Tatsuya Gima, Teshu Hanaka, Yasuaki Kobayashi, Yota Otachi, Tomohito Shirai, Akira Suzuki, Yuma Tamura and Xiao Zhou
	Closing 12:15-12:30	