

Dec 7: Workshop on Frontiers of Algorithms and Computation @Academia Sinica, Taipei	
09:00-09:30	Registration
09:30-10:30	Shanghua Teng (University of Southern California) <i>Proper Learnability and the Role of Unlabeled Data and Regularization</i>
10:30-11:00	Coffee/Tea Break
11:00-12:00	Yossi Azar (Tel-Aviv University) <i>Competitive Bundle Trading</i>
12:00-13:00	Lunch
13:00-14:00	Special Event Chair: Danny Chen (University of Notre Dame)

Dec 8: The 36th International Symposium on Algorithms and Computation (ISAAC 2025) @Silks Place, Tainan	
08:30-09:00	Registration
09:00-10:00	Keynote Speech: Piotr Indyk (Massachusetts Institute of Technology) <i>Challenges and Opportunities of Graph-Based Algorithms for Similarity Search</i>
10:00-10:35	Coffee/Tea Break
10:35-11:00	Session 1-1A: TSP & Approximation Parameterized Complexity of Directed Traveling Salesman Problem
11:00-11:25	An Optimal Algorithm for the Stacker Crane Problem on Fixed Topologies
11:25-11:50	Approximation Schemes for k-Subset Sum Ratio and k-Way Number Partitioning Ratio
12:00-13:30	Lunch
13:30-13:55	Session 1-2A: Geometry (I) Covering Weighted Points Using Unit Squares
13:55-14:20	A Dimension-Reducing Fr'echet Simplification Oracle
14:20-14:45	Incidences between Curves and Points on the Grid
14:45-15:10	Matchgate Signatures under Variable Permutations
15:10-15:45	Coffee/Tea Break
15:45-16:10	Session 1-3A: Coloring Graph Coloring below Guarantees via Co-Triangle Packing
16:10-16:35	Precoloring Extension with Demands on Paths
16:35-17:00	Minimum Sum Coloring with Bundles in Trees and Bipartite Graphs
17:00-17:30	Session 1-1B: Solution Spaces A General Framework for Finding Diverse Solutions via Network Flow and Its Applications
17:30-18:00	Finding Diverse Solutions in Combinatorial Problems with a Distributive Lattice Structure
18:00-18:30	Reachability of Independent Sets and Vertex Covers under Extended Reconfiguration Rules
18:30-19:00	Session 1-2B: Distributed Computation Anonymous Self-Stabilising Localisation via Spatial Population Protocols
19:00-19:30	Distributed Complexity of P_k-Freeness: Decision and Certification
19:30-20:00	Polynomial Equivalence of Extended Chemical Reaction Models
20:00-20:30	Deterministic Local Problems in Radio Networks: On the Impact of Local Domination and a Bit of Advice
20:30-21:00	Session 1-3B: Fair Division & Probability Distribution Maximizing Social Welfare among EF1 Allocations at the Presence of Two Types of Agents
21:00-21:30	Reforming an Unfair Allocation by Exchanging Goods
21:30-22:00	New Algorithmic Directions in Optimal Transport and Applications for Product Spaces

Dec 9: The 36th International Symposium on Algorithms and Computation (ISAAC 2025) @Silks Place, Tainan	
08:30-09:00	Registration
09:00-10:00	Keynote Speech: Mikkel Thorup (University of Copenhagen) <i>Hash Functions Bridging the Gap From Theory to Practice</i>
10:00-10:35	Coffee/Tea Break
10:35-11:00	Session 2-1A: Data Structures Space-Efficient Depth-First Search via Augmented Succinct Graph Encodings
11:00-11:25	Parallel Joinable B-Trees in the Fork-Join I/O Model
11:25-11:50	Compressibility Measures and Succinct Data Structures for Piecewise Linear Approximations
12:00-13:30	Lunch
13:30-13:55	Session 2-2A: Geometry (II) Realizing Metric Spaces with Convex Obstacles
13:55-14:20	BFS and Reverse Shortest Paths for Ball Intersection Graphs in Three and Higher Dimensions
14:20-14:45	Circle-Segment Intersection Queries in Connected Geometric Graphs
15:00-17:30	City Tour
17:30-21:00	Banquet
21:00-21:30	Session 2-1B: Planar Structural Parameterizations of Simultaneous Planarity
21:30-22:00	Star-Based Separators for Intersection Graphs of c-Colored Pseudo-Segments
22:00-22:30	On the Approximability of the Monitoring Edge Geodetic Set Problem
22:30-23:00	Session 2-2B: Graph Quadratic Kernel for Cliques or Trees Vertex Deletion
23:00-23:30	Finding d-Cuts in Claw-Free Graphs
23:30-24:00	Sparse Induced Subgraphs in P_7-Free Graphs of Bounded Clique Number

Dec 10: The 36th International Symposium on Algorithms and Computation (ISAAC 2025) @Silks Place, Tainan	
08:30-09:00	Registration
09:00-09:30	Best Paper Award Presentation: New Approximate Distance Oracles and Their Applications
09:30-10:00	Best Student Paper Award Presentation: Simple, Strict, Proper, and Directed: Comparing Reachability in Directed and Undirected Temporal Graphs
10:00-10:35	Coffee/Tea Break
10:35-11:00	Session 3-1A: Dichotomy Results Minimum Partition of Polygons under Width and Cut Constraints
11:00-11:25	A Dichotomy for 1-Planarity with Restricted Crossing Types Parameterized by Treewidth
11:25-11:50	Coloring Reconfiguration under Color Swapping
12:00-13:30	Lunch
13:30-13:55	Session 3-2A: Temporal Graphs Pathfinding in Self-Deleting Graphs
13:55-14:20	Realization of Temporally Connected Graphs Based on Degree Sequences
14:20-14:45	Optimal Bipartite Online Matching in Degree 2 Graphs
14:45-15:20	Coffee/Tea Break
15:20-15:45	Session 3-3A: String and Enumeration Streaming Periodicity with Mismatches, Wildcards, and Edits
15:45-16:10	Small Space Encoding and Recognition of k-Palindromic Prefixes
16:10-16:35	Enumerating the Irreducible Closed Sets of an Acyclic Implicational Base of Bounded Degree
16:35-17:00	Session 3-1B: Scheduling A Tight Lower Bound for Online Service with Deadlines and Lazy Server
17:00-17:30	Hardness and Fixed Parameter Tractability for Pinwheel Scheduling Problems
17:30-18:00	Time-Optimal k-Server
18:00-18:30	Session 3-2B: Parameterized Algorithms Structural Parameters for Steiner Orientation
18:30-19:00	Parameterized Reunion with Achromatic Number
19:00-19:30	A Parameterized Study of Secluded Structures in Directed Graphs
19:30-20:00	Session 3-3B: Routing Traffic-Oblivious Multi-Commodity Flow Network Design
20:00-20:30	Parameterized Algorithms for the Drone Delivery Problem
20:30-21:00	Local Routing on Ordered Theta-Graphs