Ali Gholami Rudi — Curriculum Vitae

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Research Interests Computational geometry; Combinatorial algorithms

Academic Assistant Professor, 2015—

Positions Department of Electrical and Computer Engineering,

Babol Noshirvani University of Technology

Education 2011-2015 Tarbiat Modares University, Tehran

PhD in Computer Engineering

Tarbiat Modares University, Tehran 2008-2010

MSc in Computer Engineering

Sharif University of Technology, Tehran 2004-2008

BSc in Computer Engineering

Honours and Gold Medal in 13th Iranian National Olympiad in Informatics 2003

Awards

Preprints and Approximate Curve-Restricted Simplification of Polygonal Curves. arXiv:1811.04552 [cs.CG]

Publications Proceedings of the 2nd Iranian Conference on Computational Geometry, 2019.

Approximate Discontinuous Trajectory Hotspots. arXiv:1901.01763 [cs.CG]

Proceedings of the 2nd Iranian Conference on Computational Geometry, 2019.

Enumerating Collinear Points in Higher Dimensions (with R. A. Rufai).

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Succinct Enumeration of Distant Vertex Pairs.

To appear in Discrete Mathematics, Algorithms and Applications, 2019. →

Approximate Hotspots of Orthogonal Trajectories.

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Fundamenta Informaticae, 167(4):271–285, 2019. →

Proceedings of the 1st Iranian Conference on Computational Geometry, 37–40, 2018.

Looking for Bird Nests: Identifying Stay Points with Bounded Gaps. arXiv:1803.07773 [cs.CG]

Proceedings of the 30th Canadian Conference on Computational Geometry, 334–339, 2018.

Time-Windowed Contiguous Hotspot Queries. arXiv:1711.03795 [cs.CG]

Proceedings of the 1st Iranian Conference on Computational Geometry, 15–18, 2018.

An Improved Lower Bound for General Position Subset Selection.

arXiv:1702.08654 [cs.CG]

Int. J. Computing Science and Mathematics 8(6):562–569, 2017. →

Image Preprocessing with a Parallel Optoelectronic Processor (with S. Jalili).

Computers & Electrical Engineering 46:554–565, 2015. →

RANGI: A Fast List-Colored Graph Motif Finding Algorithm

(with S. Shahrivari, S. Jalili, and Z. R. M. Kashani).

ACM/IEEE Transactions on Computational Biology and Bioinformatics 10(2):504−513, 2013. →

A Parallel Optical Implementation of Arithmetic Operations (with S. Jalili).

Optics & Laser Technology 49:173–182, 2013. →

A New Light-Based Solution to the Hamiltonian Path Problem (with J. S. Sartakhti, and S. Jalili).

Future Generation Computer Systems 29:520–527, 2013. →

Patents

IROST Patent: Electro-optic Parallel Processor (with S. Jalili, and R. R. Dehsorkh).

Iranian Research Organization for Science and Technology, 2017. →