Ali Gholami Rudi — Curriculum Vitae

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Research Interests Computational geometry; Parallel algorithms

Academic 2015— Assistant Professor,

Positions Department of Electrical and Computer Engineering,

Babol Noshirvani University of Technology

Education Tarbiat Modares University, Tehran 2011-2015

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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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.

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.

Time-Windowed Contiguous Hotspot Queries.

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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).

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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.

DOI: 10.22104/irost.1396.163