Ali Gholami Rudi — Curriculum Vitae

ContactE-mail:gholamirudi@nit.ac.irInformationWebpage:http://nit.rudi.ir/

Research Interests Computational geometry; Parallel algorithms

Academic Assistant Professor, 2015—

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. 2018. arXiv:1811.04552

Publications [cs.CG].

Looking for Bird Nests: Identifying Stay Points with Bounded Gaps. *Proceedings of the 30th Canadian Conference on Computational Geometry*, 334–339, 2018. arXiv:1803.07773 [cs.CG].

Time-Windowed Contiguous Hotspot Queries. *Proceedings of the 1st Iranian Conference on Computational Geometry*, 15–18, 2018. arXiv:1711.03795 [cs.CG].

Approximate Hotspots of Orthogonal Trajectories. *Proceedings of the 1st Iranian Conference on Computational Geometry*, 37–40, 2018. arXiv:1710.05185 [cs.CG].

A Practical Algorithm for Enumerating Collinear Points. With R. A. Rufai. 2017. arXiv:1706.05412 [cs.CG].

An Improved Lower Bound for General Position Subset Selection. *Int. J. Computing Science and Mathematics* 8(6):562–569, 2017. arXiv:1702.08654 [cs.CG].

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RANGI: A Fast List-Colored Graph Motif Finding Algorithm. With S. Shahrivari, S. Jalili, 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, S. Jalili. *Future Generation Computer Systems* 29:520–527, 2013.

Patents

IROST Patent: Electro-optic Parallel Processor. With S. Jalili, R. R. Dehsorkh. Iranian Research Organization for Science and Technology, 2017.

DOI: 10.22104/IROST.1396.163