Asst. Prof. HAKAN YILDIZ

Personal Information

Email: hakan@metu.edu.tr Web: https://avesis.metu.edu.tr/hakan

International Researcher IDs ScholarID: r_QlFksAAAAJ ORCID: 0000-0002-9579-4338 Publons / Web Of Science ResearcherID: ABB-3286-2020 ScopusID: 52063878800 Yoksis Researcher ID: 341179

Education Information

Doctorate, University of California, Santa Barbara, College of Engineering, Bilgisayar Bilimi, United States Of America 2008 - 2014 Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 2004 - 2008

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Computing Volumes and Convex Hulls: Variations and Extensions, University of California, Santa Barbara, College of Engineering, Computer Science, 2014

Research Areas

algorithms, Neural Networks

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2021 - Continues

Academic and Administrative Experience

Erasmus Program Department Coordinator, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2022 - Continues Departmental Undergraduate Education Committee Member, Middle East Technical University, Faculty of Engineering,

Courses

Practice of Algorithms, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022 Data Structures, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022 C Programming, Undergraduate, 2023 - 2024, 2022 - 2023 Computational Geometry, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022 Algorithms, Undergraduate, 2021 - 2022 Formal Languages and Abstract Machines, Undergraduate, 2020 - 2021

Jury Memberships

Competition, 2nd European Girls' Olympiad in Informatics - Scientific Committee, EGOI, TÜBİTAK, October, 2022 Post Graduate, Post Graduate, Middle East Technical University, June, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. A NEAR-OPTIMAL ALGORITHM FOR SHORTEST PATHS AMONG CURVED OBSTACLES IN THE PLANE Hershberger J., Suri S., YILDIZ H. SIAM Journal on Computing, vol.51, no.4, pp.1296-1340, 2022 (SCI-Expanded)
- II. Convex Hulls Under Uncertainty Agarwal P. K., Har-Peled S., Suri S., Yildiz H., Zhang W. ALGORITHMICA, vol.79, no.2, pp.340-367, 2017 (SCI-Expanded)
- III. Computing Klee's Measure of Grounded Boxes
 Yildiz H., Suri S.
 ALGORITHMICA, vol.71, no.2, pp.307-329, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

Geometric k shortest paths

 Eriksson-Bique S., Hershberger J., Polishchuk V., Speckii B., Suri S., Talvitie T., Verbeek K., Yildiz H.
 26th Annual ACM-SIAM Symposium on Discrete Algorithms, SODA 2015, California, United States Of America, 4 - 06 January 2015, vol.2015-January, pp.1616-1625

 Convex Hulls under Uncertainty

 Agarwal P. K., Har-Peled S., Suri S., Yildiz H., Zhang W.
 22nd Annual European Symposium on Algorithms (ESA) held as part of ALGO Meeting, Wroclaw, Poland, 8 - 10 September 2014, vol.8737, pp.37-48

 On the Most Likely Convex Hull of Uncertain Points

 Suri S., Verbeek K., Yildiz H.
 21st Annual European Symposium on Algorithms (ESA), Sophia Antipolis, France, 2 - 04 September 2013, vol.8125, pp.791-802

 A near-optimal algorithm for shortest paths among curved obstacles in the plane
 Hershberger J., Suri S., Yildiz H.

29th Annual Symposium on Computational Geometry, SoCG 2013, Rio de Janeiro, Brazil, 17 - 20 June 2013, pp.359-368

V. On Klee's measure problem for grounded boxes Yildiz H., Suri S. 28th Annual Symposuim on Computational Geometry, SCG 2012, Chapel Hill, NC, United States Of America, 17 - 20 June 2012, pp.111-120

VI. Detecting social cliques for automated privacy control in online social networks Yildiz H., Kruegel C. 2012 IEEE International Conference on Pervasive Computing and Communications Workshops, PERCOM Workshops 2012, Lugano, Switzerland, 19 - 23 March 2012, pp.353-359

VII. A discrete and dynamic version of klee's measure problem Yildiz H., Hershberger J., Suri S. 23rd Annual Canadian Conference on Computational Geometry, CCCG 2011, Toronto, Canada, 10 - 12 August 2011

VIII. The Union of Probabilistic Boxes: Maintaining the Volume Yildiz H., Foschini L., Hershberger J., Suri S. 19th Annual European Symposium on Algorithms (ESA), Saarbrücken, Germany, 5 - 09 September 2011, vol.6942, pp.591-602

Scientific Refereeing

Journal of Computational Geometry, Other journals, November 2019

Metrics

Publication: 11 Citation (WoS): 53 Citation (Scopus): 173 H-Index (WoS): 4 H-Index (Scopus): 7

Non Academic Experience

TÜBİTAK