Asst. Prof. HAKAN YILDIZ

Personal Information

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International Researcher IDs

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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,

Department of Computer Engineering, 2022 - Continues

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

I.   **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
II.   **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
III. **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
IV.   **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