

Öznur Yaşar Diner

Curriculum Vitae

Department of Computer Engineering

Kadir Has University, Istanbul

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Education

Ph.D. in Mathematics, Memorial University of Newfoundland, Canada

(Sep. 2004 - Aug. 2008) Title: Algorithmic Complexity and Extremality Characterizations for Edge Searching and Its Variations.

Supervisors: Danny Dyer, David Pike, Margo Kondratieva.

Examining Committee: Nancy Clarke, Richard Novakowski, Nabil Shalaby.

European Pre-Doctoral Program in Computer Science, ETH Zürich, Switzerland (Oct. 2002 - Mar. 2003)

M.Sc. in Mathematics, University of Göttingen, Germany (Oct. 2000 - Jul. 2002)

Title: A Modified Algorithm for the Fermat-Weber Problem

Supervisor: Jochen Werner.

B.Sc. in Mathematics and B.Ed. in Mathematics Education, Middle East Technical University, Ankara, Turkey (Sep. 1996 - Jun. 2000)

Employment

Visiting Professor Universitat Politècnica de Catalunya, Barcelona, Spain (May 2019 - Sep. 2020).

Assistant Professor Kadir Has University, Istanbul, Turkey (Since Jan. 2010).

Teaching Instructor, Memorial University of Newfoundland, St. John's (Summer 2005, Fall 2008 and Winter 2009)

Teaching Assistant Department of Mathematics and Statistics, Memorial University of Newfoundland, St. John's (Sep. 2004 - Aug. 2008)

Research Assistant Institute of Applied Mathematics, Middle East Technical University, Ankara (Jun. 2003 - Aug. 2004)

Teaching Assistant ETH Zürich (Oct. 2002 - Mar. 2003)

Publications

1. The Multicolored Graph Realization Problem, J. Díaz, Ö. Y. Diner, M. Serna, O. Serra, arXiv preprint: 2103.12899. Submitted to Discrete Applied Mathematics.
2. Four-Searchable Biconnected Outerplanar Graphs, B. Yang, Ö. Y. Diner, D. Dyer, Submitted to Discrete Applied Mathematics.
3. Block Elimination Distance, Ö. Y. Diner, A. C. Giannopoulou, G. Stamoulis, D. Thilikos, arXiv preprint: 2103.01872, 2021. Accepted for publication in Lecture Notes in Computer Science volume dedicated to the proceedings of WG2021 (Workshop on Graph-Theoretic Concepts in Computer Science).
4. On list k -coloring convex bipartite graphs, J. Díaz, Ö. Y. Diner, M. Serna, O. Serra, in: C. Gentile, G. Stecca, P. Ventura (Eds.), Graphs and Combinatorial Optimization: from Theory to Applications CTW2020 Proceedings, Vol. 5 of Airo, Springer, pp. 15–26, 2021.
5. Contraction and Deletion Blockers for Perfect Graphs and H -free Graphs, Ö. Y. Diner, D. Paulusma, C. Picouleau, B. Ries, Theoretical Computer Science 746, p. 49-72, 2018.
6. Strategic Early Warning System for the French milk market: A graph theoretical approach to foresee volatility, C. Bisson and Ö. Y. Diner, Futures 87, p. 10-23, 2017.
7. Contraction Blockers for Graphs with Forbidden Induced Paths, Ö. Y. Diner, D. Paulusma, C. Picouleau and B. Ries, In: Paschos V., Widmayer P. (eds) Algorithms and Complexity. CIAC 2015. Lecture Notes in Computer Science, vol 9079. Springer, Cham, p. 194-207, 2015.
8. Bayesian and Graph Theory Approaches to Develop Strategic Early Warning Systems for the Milk Market, F. Gurpinar, C. Bisson, Ö. Y. Diner, Proceedings of the 3rd World Conference on Information Systems and Technologies, p. 533-542, 2015.
9. Three-Fast-Searchable Graphs, D. Dereniowski, Ö. Y. Diner, D. Dyer, Discrete Applied Mathematics 161, p. 1950–1958, 2013.
10. Searching Circulant Graphs, Ö. Y. Diner, D. Dyer, Proceedings of Cologne-Twente Workshop on Graphs and Combinatorial Optimization, p. 268-271, 2011.
11. Weighted Edge Searching, Ö. Yaşar, D. Dyer, D. A. Pike and M. Kondratieva. Discrete Applied Mathematics 157, p. 1913–1923, 2009.
12. On the Fast Searching Problem, D. Dyer, B. Yang, Ö. Yaşar. In: Fleischer R., Xu J. (eds) Algorithmic Aspects in Information and Management. AAIM 2008. Lecture Notes in Computer Science, vol 5034. Springer, Berlin, Heidelberg, p. 143–154, 2008.
13. Discrete Tomography: A Joint Contribution by Optimization, Equivariance Analysis and Learning, Ö. Yaşar, G. W. Weber, International Journal of Computing Anticipatory Systems, Partial Proceedings of the Seventh International Conference CASYS05 on Computing Anticipatory Systems, Liege, Belgium, August 8-13, 2005, D. M. Dubois (Ed.), Publ. by CHAOS, Volume 18, pp. 3–24, 2006.

14. On the Applied Mathematics of Discrete Tomography, Ö. Yaşar, Ç. Diner, A. Doğan, G. W. Weber, F. Özbudak, A. Tiefenbach, Journal of Computational Technologies, Vol. 9 - 5, p. 14-32, 2004.
15. Discrete Tomography: A Modern Inverse Problem Reconsidered by Optimization, G. W. Weber, Ö. Yaşar, Conf. Proc. Computational and Informational Technologies for Research, Engineering and Education CIT-2004 Alma-Ata, Kazakhstan, October, 2004 Conf. Proc. Part 1, p. 155-221, 2004.

Projects

1. Solutions of List Coloring and Pre-Coloring Extension Problems for Special Graph Classes, Founded by the Scientific and Technological Research Council of Turkey (TÜBİTAK), BİDEB-2219 As the Principal Investigator (Oct. 2019 - Sep. 2020).
2. Computational Complexity of Coloring and List Coloring for Restricted Graph Classes, Kadir Has University Research Grant - As the Principal Investigator (Mar. 2018 - Aug. 2019).
3. Forbidden Minor Characterizations for 4-Searchable Graphs, FP7 Marie Curie Reintegration Research Grant, No: PIRG07-GA-2010-268322 - FORMI 4-SEG, As the Principal Investigator (1.10.2011 - 30.09.2014)
4. Development Of Strategic Early Warning Systems Based On Graph Theory, Kadir Has University Research Grant - As a researcher (Mar.2014- Feb.2015)
5. Solutions to the Edge Search Problem and Its Variations - Kadir Has University Research Grant - As the Principal Investigator (Mar. 2011 - Feb. 2013).
6. Discrete Tomography: Reconstruction and equivariance analysis, Middle East Technical University Research Grant - As a researcher (Sep.2003- Aug.2004)
7. Wavelength Conversion in Optical Networks and File Transfer Scheduling - Two Mini-projects with Dr. T.Erlebach, ETH Zurich (Oct. 2002 - Mar. 2003)

Scholarships and Awards

Aug. 2000 - Jul. 2002 M. Sc. Scholarship from DAAD (German Academic Exchange Service)

Oct. 2002 - Mar. 2003 Pre-Doc Scholarship ETH Zurich

Sep. 2004 - Aug. 2008 Fellow of School of Graduate Studies, Memorial University of Newfoundland, Canada.

Oct. 2007 - Nov. 2007 Visiting Student Support of University of Regina, Canada.

Foreign Languages

Fluent in *English*; Competent in *German*; Beginner in *Spanish*. Familiar with *French* and *Italian*.