

Assoc. Prof. BURKAY GENÇ

Personal Information

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International Researcher IDs

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Biography

Burkay Genç graduated from Ankara Fen Lisesi in 1996, received his BSc from Bilkent University Industrial Engineering Department in 2000, received his MSc from Bilkent University Computer Engineering Department in 2002, and his PhD from Waterloo University School of Computer Science in 2008. He worked in Izmir Ekonomi Üniversitesi and TED Üniversitesi as an assistant professor of computer engineering. He joined Hacettepe University in 2016. He is currently an associate professor of computer engineering in Hacettepe University.

Education Information

Doctorate, University of Waterloo, Matematik Fakültesi, Bilgisayar Bilimleri, Canada 2003 - 2008

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 2000 - 2002

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Endüstri Mühendisliği, Turkey 1996 - 2000

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Reconstructing Orthogonal Polyhedra, University Of Waterloo, Matematik Fakültesi, 2008

Postgraduate, A framework for complexity management in graph visualization, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Computer Engineering, 2002

Research Areas

algorithms, Computer Learning, Text/Document Processing, Soft Computing

Academic Titles / Tasks

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2021 - Continues
Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2019 - 2021
Assistant Professor, Hacettepe University, Nüfus Etütleri Enstitüsü, Politika ve Strateji Çalışmaları A.B.D., 2014 - 2019
Assistant Professor, Ted University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2012 - 2014
Assistant Professor, Izmir University Of Economics, Faculty Of Engineering And Computer Sciences, Department Of Computer Engineering, 2011 - 2012
Assistant Professor, Izmir University Of Economics, Faculty Of Engineering And Computer Sciences, Department Of Software Engineering, 2009 - 2011
Research Assistant, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Computer Engineering, 2000 - 2003

Courses

Oyun Prototipleme, Postgraduate, 2023 - 2024
Game Architecture, Postgraduate, 2023 - 2024, 2022 - 2023
Algorithm Analysis, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
Introduction to Programming, Undergraduate, 2021 - 2022
Data Mining, Doctorate, 2021 - 2022
Data Structures, Undergraduate, 2020 - 2021
Hesaplamalı Geometri, Postgraduate, 2017 - 2018
Simulasyon, Doctorate, 2016 - 2017
Veri Madenciliği, Doctorate, 2016 - 2017
Seminer, Postgraduate, 2016 - 2017
Sosyal Ağlar, Doctorate, 2016 - 2017
Politika Analizinde Seçme Konular, Doctorate, 2016 - 2017

Advising Theses

Genç B., A color channel based analysis on image tessellation, Postgraduate, T.KİBAR(Student), 2022
Genç B., Estimating instrumentation data acquired during flight test from a helicopter engine using predictor models, Postgraduate, B.COŞKUN(Student), 2021
Genç B., An intelligent layout algorithm for variable screen resolutions, Postgraduate, B.ÇELİK(Student), 2021
Genç B., Çok büyük konumsal verinin kullanıcı odaklı görselleştirilmesi, Postgraduate, M.TEKİN(Student), 2020
Genç B., Türkçe için sahte haber tespit modelinin oluşturulması, Doctorate, U.MERTOĞLU(Student), 2020
Genç B., COMPLEXITY MANAGEMENT IN VISUALIZATION OF VERY LARGE SPATIAL DATA, Postgraduate, B.ÇAKMAK(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of the Bulut Index-Beta method and Global Health Security Index: results from the world's countries**
Bulut T., TOP M., ATAN M., GENÇ B.
TURKISH JOURNAL OF MEDICAL SCIENCES, no.4, 2024 (SCI-Expanded)
- II. **Mobile games success and failure: mining the hidden factors**
Kerim A., GENÇ B.
NEURAL COMPUTING & APPLICATIONS, 2022 (SCI-Expanded)
- III. **A column generation based heuristic algorithm for piecewise linear regression**

- Tunc H., GENÇ B.
EXPERT SYSTEMS WITH APPLICATIONS, vol.171, 2021 (SCI-Expanded)
- IV. **Automated Fake News Detection in the Age of Digital Libraries**
Mertoglu U., GENÇ B.
INFORMATION TECHNOLOGY AND LIBRARIES, vol.39, no.4, 2020 (SCI-Expanded)
- V. **Identifying criminal organizations from their social network structures**
Cinar M. S., GENÇ B., Sever H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.1, pp.421-436, 2019 (SCI-Expanded)
- VI. **Optimal training and test sets design for machine learning**
GENÇ B., Tunc H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.2, pp.1534-1545, 2019 (SCI-Expanded)
- VII. **Extending a sentiment lexicon with synonym-antonym datasets: SWNetTR plus**
Saglam F., GENÇ B., Sever H.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.3, pp.1806-1820, 2019 (SCI-Expanded)
- VIII. **Covering points with minimum/maximum area orthogonally convex polygons**
Evrendilek C., GENÇ B., Hnich B.
COMPUTATIONAL GEOMETRY-THEORY AND APPLICATIONS, vol.54, pp.32-44, 2016 (SCI-Expanded)
- IX. **Covering points with orthogonal polygons**
Evrendilek C., Genc B., Hnich B.
DISCRETE APPLIED MATHEMATICS, vol.164, pp.92-99, 2014 (SCI-Expanded)
- X. **Reconstructing orthogonal polyhedra from putative vertex sets**
Biedl T., Genc B.
COMPUTATIONAL GEOMETRY-THEORY AND APPLICATIONS, vol.44, no.8, pp.409-417, 2011 (SCI-Expanded)
- XI. **STOKER'S THEOREM FOR ORTHOGONAL POLYHEDRA**
Biedl T., Genc B.
INTERNATIONAL JOURNAL OF COMPUTATIONAL GEOMETRY & APPLICATIONS, vol.21, no.4, pp.383-391, 2011 (SCI-Expanded)
- XII. **Covering points with orthogonally convex polygons**
Genc B., Evrendilek C., Hnich B.
COMPUTATIONAL GEOMETRY-THEORY AND APPLICATIONS, vol.44, no.5, pp.249-264, 2011 (SCI-Expanded)
- XIII. **A multi-graph approach to complexity management in interactive graph visualization**
Dogrusoz U., Genc B.
COMPUTERS & GRAPHICS-UK, vol.30, no.1, pp.86-97, 2006 (SCI-Expanded)
- XIV. **A layout algorithm for signaling pathways**
Genc B., Dogrusoz U.
INFORMATION SCIENCES, vol.176, no.2, pp.135-149, 2006 (SCI-Expanded)
- XV. **A constrained, force-directed layout algorithm for biological pathways**
Genc B., Dogrusoz U.
GRAPH DRAWING, vol.2912, pp.314-319, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Detecting Sentiment Fluctuations in Multimedia Learning Material**
ÖZGÜR A., Saglam F., GENÇ B., ALTUN A.
PAMUKKALE UNIVERSITESI EGITIM FAKULTESI DERGISI-PAMUKKALE UNIVERSITY JOURNAL OF EDUCATION, no.60, 2024 (ESCI)
- II. **Ekran Çözünürlüğüne Duyarlı Bir Akıllı Arayüz Yerleştirme Yaklaşımı**

Genç B., Çelik B.

Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.5, pp.113-125, 2020 (Peer-Reviewed Journal)

III. **Covering oriented points in the plane with orthogonal polygons is NP-complete**

Evrendilek C., Genç B., Hnich B.

Electronic Notes in Discrete Mathematics, vol.36, pp.303-310, 2010 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. **Estimating Instrumentation Data Acquired During Flight Test of a Helicopter using Predictor Models**

Coskun B., GENÇ B.

19th International Conference on Smart Technologies (IEEE EUROCON), Lviv, Ukraine, 6 - 08 July 2021, pp.164-169

II. **Mobile Games Success and Failure: Mining the Hidden Factors**

Kerim A., GENÇ B.

7th International Conference on Soft Computing and Machine Intelligence (ISCM), Stockholm, Sweden, 14 - 15 November 2020, pp.167-171

III. **Analyzing Structure of Terrorist Networks by Using Graph Metrics**

Cinar M. S., GENÇ B., Sever H., Raghavan V. V.

IEEE International Conference on Big Knowledge (IEEE ICBK), Hefei, China, 9 - 10 August 2017, pp.9-16

IV. **Developing Turkish Sentiment Lexicon for Sentiment Analysis Using Online News Media**

Saglam F., Sever H., GENÇ B.

13th IEEE/ACS International Conference on Computer Systems and Applications (AICCSA), Agadir, Morocco, 29 November - 02 December 2016

V. **Cauchy's Theorem for Orthogonal Polyhedra of Genus 0**

Biedl T., Genç B.

17th Annual European Symposium on Algorithms, Copenhagen, Denmark, 7 - 09 September 2009, vol.5757, pp.71-72

Supported Projects

GENÇ B., Project Supported by Higher Education Institutions, Çevrimiçi Haber Kaynakları Kullanılarak Duygusal Analizi Amaçlı Bir Türkçe Duygu Sözlüğü Geliştirilmesi, 2016 - 2022

GENÇ B., Project Supported by Other Private Institutions, Gayri Menkul Değerleme Veri Modeli Oluşturma Projesi, 2016 - 2016

Metrics

Publication: 23

Citation (WoS): 52

Citation (Scopus): 108

H-Index (WoS): 5

H-Index (Scopus): 7