

Prof. SEMRA GÜNDÜÇ

Personal Information

Email: gunduc@ankara.edu.tr
Web: <https://avesis.ankara.edu.tr/gunduc>

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey 2002 - 2006
Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey 2002 - 2006
Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), Turkey 2002 - 2006
Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), Turkey 1999 - 2001
Undergraduate, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1994 - 1999

Dissertations

Doctorate, Elektron-pozitron ve elektron-foton çarpıştırıcılarında süpersimetri parametre uzayının incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 2006
Doctorate, Elektron-pozitron ve elektron-foton çarpıştırıcılarında süpersimetri parametre uzayının incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 2006
Doctorate, Hadronik madde kuark-gluon plazma faz geçişlerinde perkolasyon yaklaşımı, Ankara University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (Dr), 2001
Postgraduate, Hadronik madde kuark-gluon plazma faz geçişlerinde perkolasyon yaklaşımı, Hacettepe University, Fen Bilimleri Enstitüsü, Fizik Mühendisliği (YI) (Tezli), 2001

Research Areas

Academic Titles / Tasks

Associate Professor, Ankara University, Mühendislik Fakültesi, 2017 - Continues
Assistant Professor, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - Continues
Lecturer PhD, Hacettepe University, Hacettepe Meslek Yüksekokulu, 2007 - 2012
Lecturer, Pamukkale University, Rectorate, Department Of Informatics, 2006 - 2007
Research Assistant, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 1999 - 2006

Academic and Administrative Experience

Hacettepe University, 2012 - 2012

Courses

Computer Programming II, Undergraduate, 2018 - 2019, 2017 - 2018, 2013 - 2014, 2012 - 2013

Complex Network, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Karmaşık Ağlar, Postgraduate, 2018 - 2019, 2016 - 2017
Computer Programming I, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Yapay Zeka, Postgraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
Research Techniques I, Undergraduate, 2016 - 2017, 2015 - 2016
Computer Simulation and Modeling, Undergraduate, 2016 - 2017, 2015 - 2016
Research Techniques II, Undergraduate, 2016 - 2017
Artificial Intelligence, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013
Researcr Techniques II, Undergraduate, 2015 - 2016
Simulation And Modelling, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013
Fizik I, Associate Degree, 2010 - 2011, 2009 - 2010, 2008 - 2009
Fizik II, Associate Degree, 2010 - 2011, 2009 - 2010, 2008 - 2009
Matematik II, Associate Degree, 2010 - 2011, 2009 - 2010, 2008 - 2009
Matematik I, Associate Degree, 2010 - 2011, 2009 - 2010, 2008 - 2009

Advising Theses

GÜNDÜÇ S., Karmaşık ağlarda fikir dinamikleri, Postgraduate, V.MOEINIFAR(Student), 2021
GÜNDÜÇ S., Steganografi ile bilgi güvenliği, Postgraduate, B.GANBAT(Student), 2017
GÜNDÜÇ S., Biyometrik sistemlerin bilgi güvenliği, Postgraduate, A.RAKHIMOV(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Diffusion of Innovation in Competitive Markets - A Study on the Global Smartphone Diffusion**
Gunduc S.
ACTA PHYSICA POLONICA A, vol.135, no.3, pp.485-494, 2019 (SCI-Expanded)
- II. **A Case Study of Diffusion of Innovation under Competition**
Gunduc S.
ACTA PHYSICA POLONICA A, vol.133, no.6, pp.1465-1469, 2018 (SCI-Expanded)
- III. **The role of persuasion power on the consensus formation**
GÜNDÜÇ S., ERYİĞİT R.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.426, pp.16-24, 2015 (SCI-Expanded)
- IV. **The role of fanatics in consensus formation**
Gunduc S.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.26, no.3, 2015 (SCI-Expanded)
- V. **Maximal entanglement from quantum random walks**
Allés B., Gündüz S., Gündüz Y.
Quantum Information Processing, vol.11, no.1, pp.211-227, 2012 (SCI-Expanded)
- VI. **Dynamic critical index of the Swendsen-Wang algorithm by dynamic finite-size scaling**
DİLAVER M., Gündüz S., Aydin M., Gündüz Y.
Computer Physics Communications, vol.175, no.8, pp.553-558, 2006 (SCI-Expanded)
- VII. **A study of dynamic finite size scaling behavior of the scaling functions - Calculation of dynamic critical index of Wolff algorithm**
Gündüz S., DİLAVER M., Aydin M., Gündüz Y.
Computer Physics Communications, vol.166, no.1, pp.1-7, 2005 (SCI-Expanded)
- VIII. **A new approach to dynamic finite-size scaling**
DİLAVER M., Gündüz S., Aydin M., Gündüz Y.
International Journal of Modern Physics C, vol.14, no.7, pp.945-954, 2003 (SCI-Expanded)
- IX. **A geometric approach to the phase transitions**

- Demirtürk S., Gündüz Y.
International Journal of Modern Physics C, vol.12, no.9, pp.1361-1373, 2001 (SCI-Expanded)
- X. Finite size scaling by using scaling functions in two-dimensional $q = 2$ and 7 state Potts models
Demirtürk S., Seferoğlu N., Aydin M., Gündüz Y.
International Journal of Modern Physics C, vol.12, no.3, pp.403-412, 2001 (SCI-Expanded)

Articles Published in Other Journals

I. ESTIMATING CO₂ EMISSIONS BY USING ENERGY INTENSITY DATA OF OECD COUNTRIES

Eryigit R., gunduc s.

Communications Faculty of Sciences University of Ankara Series A2-A3: Physical Sciences and Engineering, vol.61, no.1, pp.68-75, 2019 (Peer-Reviewed Journal)

Books & Book Chapters

I. Opinion formation dynamics and persuasion models

GÜNDÜÇ S., ERYİĞİT R.

in: Network Science: Transdisciplinary Approach to Real-World Complex Systems, Mehmet Aydin, Editor, Kadir Has University, İstanbul, pp.23-36, 2017

Metrics

Publication: 26

Citation (WoS): 17

Citation (Scopus): 20

H-Index (WoS): 5

H-Index (Scopus): 3