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Personal Information

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Education Information

Doctorate, Rensselaer Polytechnic Institute, Fen Bilimleri Enstitüsü, Fizik, United States Of America 2001 - 2005

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Fizik, Turkey 1998 - 2001

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Fizik, Turkey 1992 - 1998

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Synchronization in Small-World-Connected Computer Networks, Rensselaer Polytechnic Institute, Fen Bilimleri Enstitüsü, Fizik, 2005

Postgraduate, Formation and Evolution of Breathers in a Chain of Nonlinear Coupled Oscillators , Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, 2001

Research Areas

Health Sciences, Medicine, Fundamental Medical Sciences, Biostatistics and Medical Informatics, Internal Medicine Sciences, Public Health, Epidemiology

Academic Titles / Tasks

Professor, Istanbul Medeniyet University, Faculty Of Medicine, Basic Medical Sciences, 2016 - Continues

Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Statistics , 2016 - Continues

Assistant Professor, The University of Pittsburgh, Graduate School of Public Health, Health Policy and Management, 2010 - 2016

Assistant Professor, Rochester Institute of Technology, School of Mathematical Sciences, Mathematics, 2008 - 2010

Research Assistant PhD, Theory Division, Complex Systems Group, 2005 - 2008

Research Assistant, Rensselaer Polytechnic Institute, Fen Fakültesi, Fizik Bölümü, 2001 - 2005

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1998 - 2001

Academic and Administrative Experience

İstanbul Medeniyet Üniversitesi, Faculty of Engineering and Natural Sciences , Statistics Department , 2016 - Continues
İstanbul Medeniyet Üniversitesi, Faculty of Engineering and Natural Sciences , Statistics Department , 2016 - 2017
İstanbul Medeniyet Üniversitesi, Faculty of Medicine, Temel Tıbbi Bilimler Bölümü, 2016 - 2017

Courses

Biyoistatistik, Undergraduate, 2018 - 2019
Biostatistics, Undergraduate, 2017 - 2018
Biyoistatistik, Undergraduate, 2018 - 2019
Biyoistatistik, Undergraduate, 2017 - 2018
Biyoistatistik, Undergraduate, 2015 - 2016

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Evaluation of the Association between Lumbar Spinal Stenosis and Lumbar Subcutaneous Fat Tissue Thickness by MRI: A Novel Perspective**
ATALAY B., Saritepe F., Topcam A., GÜÇLÜ H., GÜRBÜZ M. S.
JCSPS-JOURNAL OF THE COLLEGE OF PHYSICIANS AND SURGEONS PAKISTAN, vol.32, no.2, pp.147-151, 2022
(Journal Indexed in SCI)
- II. **Evaluation of Non-Pharmaceutical Interventions for Reducing Contact Rate in COVID-19 Pandemic: R-0 Estimation and Modeling for Istanbul**
MARAL I., Yaylalı E., GÜÇLÜ H., İKİŞİK H., Guner A. E.
MIKROBİYOLOJİ BULTENİ, vol.55, no.3, pp.389-405, 2021 (Journal Indexed in SCI)
- III. **Age-specific social mixing of school-aged children in a US setting using proximity detecting sensors and contact surveys**
Grantz K. H. , Cummings D. A. T. , Zimmer S., Vukotich C., Galloway D., Schweizer M. L. , Guclu H., Cousins J., Lingle C., Yearwood G. M. H. , et al.
SCIENTIFIC REPORTS, vol.11, no.1, 2021 (Journal Indexed in SCI)
- IV. **Anterior third ventricular height and infundibulochiasmatic angle: two novel measurements to predict clinical success of endoscopic third ventriculostomy in the early postoperative period.**
Gürbüz M. S. , Dağçınar A., Bayrı Y., Şeker A., Güçlü H.
Journal of neurosurgery, pp.1-9, 2019 (Journal Indexed in SCI)
- V. **Ossicular chain erosion in chronic otitis media patients with cholesteatoma or granulation tissue or without those: analysis of 915 cases.**
AKARÇAY M., Kalcioğlu M. T. , TUYSUZ O., TIMURLENK E., Guclu H.
European archives of oto-rhino-laryngology : official journal of the European Federation of Oto-Rhino-Laryngological Societies (EUFOS) : affiliated with the German Society for Oto-Rhino-Laryngology - Head and Neck Surgery, vol.276, pp.1301-1305, 2019 (Journal Indexed in SCI Expanded)
- VI. **Influence of peer networks on physician adoption of new drugs**
Donohue J. M. , GÜÇLÜ H., Gellad W. F. , Chang C. H. , Huskamp H. A. , Choudhry N. K. , Zhang R., Lo-Ciganic W., Junker S. P. , Anderson T., et al.
PLOS ONE, vol.13, no.10, 2018 (Journal Indexed in SCI)
- VII. **Patterns and predictors of physician adoption of new cardiovascular drugs**
Anderson T. S. , Lo-Ciganic W., Gellad W. F. , Zhang R., Huskamp H. A. , Choudhry N. K. , Chang C. H. , Richards-Shubik S., GÜÇLÜ H., Jones B., et al.
HEALTHCARE-THE JOURNAL OF DELIVERY SCIENCE AND INNOVATION, vol.6, no.1, pp.33-40, 2018 (Journal Indexed in SSCI)
- VIII. **Who Were the Early Adopters of Dabigatran?: An Application of Group-based Trajectory Models.**
LO-CIGANIC W., GELLAD W., HUSKAMP H., CHOUDHRY N., CHANG C., ZHANG R., JONES B., Guclu H., RICHARDS-

SHUBIK S., DONOHUE J.

Medical care, vol.54, pp.725-32, 2016 (Journal Indexed in SCI Expanded)

- IX. **Impact on Primary Care Access Post-Disaster: A Case Study From the Rockaway Peninsula**
Sood R. K. , Bocour A., Kumar S., Guclu H., Potter M., Shah T. B.
DISASTER MEDICINE AND PUBLIC HEALTH PREPAREDNESS, vol.10, no.3, pp.492-495, 2016 (Journal Indexed in SCI)
- X. **An Agent-Based Model for Addressing the Impact of a Disaster on Access to Primary Care Services.**
Guclu H., Kumar S., Galloway D., Krauland M., Sood R., Bocour A., Hershey T., van N., Potter M.
Disaster medicine and public health preparedness, vol.10, pp.386-93, 2016 (Journal Indexed in SCI Expanded)
- XI. **WHO WERE THE EARLY ADOPTERS OF DABIGATRAN? AN APPLICATION OF GROUP-BASED TRAJECTORY MODELS**
Lo-Ciganic W., Gellad W. F. , Hiskamp H. A. , Choudhry N. K. , Zhang R., Chang C., Jones B. L. , Richards-Shubik S., Guclu H., Donohue J. M.
VALUE IN HEALTH, vol.19, no.3, 2016 (Journal Indexed in SCI)
- XII. **Social Contact Networks and Mixing among Students in K-12 Schools in Pittsburgh, PA**
Guclu H., Read J., Vukotich C. J. , Galloway D. D. , Gao H., Rainey J. J. , Uzicanin A., Zimmer S. M. , Cummings D. A. T.
PLOS ONE, vol.11, no.3, 2016 (Journal Indexed in SCI)
- XIII. **State-Level Legal Preparedness for Nuclear and Radiological Emergencies in the US: A Network Analysis of State Laws and Regulations**
Guclu H., Bjerke E. F. , Galvan J., Sweeney P., Potter M. A.
PUBLIC HEALTH REPORTS, vol.129, pp.154-165, 2014 (Journal Indexed in SCI)
- XIV. **Aflatoxin Regulations and Global Pistachio Trade: Insights from Social Network Analysis**
Bui-Klimke T. R. , Guclu H., Kensler T. W. , Yuan J., Wu F.
PLOS ONE, vol.9, no.3, 2014 (Journal Indexed in SCI)
- XV. **Global Maize Trade and Food Security: Implications from a Social Network Model**
Wu F., Guclu H.
RISK ANALYSIS, vol.33, no.12, pp.2168-2178, 2013 (Journal Indexed in SCI)
- XVI. **Social Network Analysis: A Novel Approach to Legal Research on Emergency Public Health Systems**
Sweeney P. M. , Bjerke E. F. , Guclu H., Keane C. R. , Galvan J., Gleason S. M. , Potter M. A.
JOURNAL OF PUBLIC HEALTH MANAGEMENT AND PRACTICE, vol.19, no.6, 2013 (Journal Indexed in SSCI)
- XVII. **FRED (A Framework for Reconstructing Epidemic Dynamics): an open-source software system for modeling infectious diseases and control strategies using census-based populations**
Grefenstette J. J. , Brown S. T. , Rosenfeld R., DePasse J., Stone N. T. B. , Cooley P. C. , Wheaton W. D. , Fyshe A., Galloway D. D. , Sriram A., et al.
BMC PUBLIC HEALTH, vol.13, 2013 (Journal Indexed in SCI)
- XVIII. **Aflatoxin Regulations in a Network of Global Maize Trade**
Wu F., Guclu H.
PLOS ONE, vol.7, no.9, 2012 (Journal Indexed in SCI)
- XIX. **Ad-hoc limited scale-free models for unstructured peer-to-peer networks**
Kumari D. R. , Guclu H., Yuksel M.
PEER-TO-PEER NETWORKING AND APPLICATIONS, vol.4, no.2, pp.92-105, 2011 (Journal Indexed in SCI)
- XX. **Limited Scale-Free Overlay Topologies for Unstructured Peer-to-Peer Networks**
Guclu H., Yuksel M.
IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, vol.20, no.5, pp.667-679, 2009 (Journal Indexed in SCI)
- XXI. **Network behavior in thin film growth dynamics**
Karabacak T., Guclu H., Yuksel M.
PHYSICAL REVIEW B, vol.79, no.19, 2009 (Journal Indexed in SCI)
- XXII. **Hierarchical regular small-world networks**
Boettcher S., Goncalves B., Guclu H.
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL, vol.41, no.25, 2008 (Journal Indexed in SCI)

- XXIII. **Extreme fluctuations in noisy task-completion landscapes on scale-free networks**
Guclu H., Korniss G., Toroczkai Z.
CHAOS, vol.17, no.2, 2007 (Journal Indexed in SCI)
- XXIV. **Proximity networks and epidemics**
Toroczkai Z., Guclu H.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.378, no.1, pp.68-75, 2007 (Journal Indexed in SCI)
- XXV. **Synchronization landscapes in small-world-connected computer networks**
Guclu H., Korniss G., Novotny M. A. , Toroczkai Z., Racz Z.
PHYSICAL REVIEW E, vol.73, no.6, 2006 (Journal Indexed in SCI)
- XXVI. **Extreme fluctuations in small-world-coupled autonomous systems with relaxational dynamics**
Guclu H., Korniss G.
FLUCTUATION AND NOISE LETTERS, vol.5, no.1, 2005 (Journal Indexed in SCI)
- XXVII. **Extreme fluctuations in small-world networks with relaxational dynamics**
Guclu H., Korniss G.
PHYSICAL REVIEW E, vol.69, no.6, 2004 (Journal Indexed in SCI)
- XXVIII. **Modelling disease outbreaks in realistic urban social networks**
Eubank S., Guclu H., Kumar V., Marathe M., Srinivasan A., Toroczkai Z., Wang N.
NATURE, vol.429, no.6988, pp.180-184, 2004 (Journal Indexed in SCI)
- XXIX. **Suppressing roughness of virtual times in parallel discrete-event simulations**
Korniss G., Novotny M., Guclu H., Toroczkai Z., Rikvold P.
SCIENCE, vol.299, no.5607, pp.677-679, 2003 (Journal Indexed in SCI)
- XXX. **Chaotic breather formation, coalescence, and evolution to energy equipartition in an oscillatory chain**
Mirnov V., Lichtenberg A., Guclu H.
PHYSICA D, vol.157, no.4, pp.251-282, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Can Hemogram Parameters Predict a Positive PCR Result in COVID-19?**
Sarmis A., Agirbasli M. A. , Kocoglu E., GÜÇLÜ H., ÖZEKİNCİ T., HABİP Z.
BANGLADESH JOURNAL OF MEDICAL SCIENCE, vol.20, 2021 (Journal Indexed in ESCI)
- II. **Pain Threshold, Pain Severity and Sensory Effects of Pain in Fibromyalgia Syndrome Patients: A new scale study**
ANKARALI H., Ataoglu S., ANKARALI S., GÜÇLÜ H.
BANGLADESH JOURNAL OF MEDICAL SCIENCE, vol.17, no.3, pp.342-350, 2018 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Aggressive prostate cancer development might be under the regulation of both Tregs and miRNAs**
Akalm İ., Erol B., Aslan E., Özkanlı S. Ş. , Efiloğlu Ö., Yıldırım S., Çaşkurlu T., Güçlü H., Karaman M. İ.
EUROPEAN HUMAN GENETICS CONFERENCE 2018, Milan, Italy, 16 - 19 June 2018, vol.27, no.2619, pp.446
- II. **Ossicular chain erosions in chronic otitis media with or without cholesteatoma and granulation tissue, analysis of 915 patients**
Akarçay M., KALCIOĞLU M. T. , Tüysüz O., Timurlenk E., GÜÇLÜ H.
31st Politzer Society Meeting and 2nd Global Otolaryngology Research Forum, Gran Canary, Spain, 21 February 2018, vol.31, no.1, pp.141
- III. **Kolesteatom veya granülasyon dokusu olan ve bunlardan hiçbirisi olmayan basit kronik otitis media hastalarda kemikçik zincir erozyonu, 915 hastanın analizi.**

Akarçay M., KALCIOĞLU M. T. , Tüysüz O., Timurlenk E., GÜÇLÜ H.

9. Koklear İmplantasyon, otoloji, Nörotoloji, Odyoloji Kongresi, Antalya, Turkey, 07 December 2017, vol.1, no.1, pp.16

IV. PHYSICIAN ADOPTION OF NEW CARDIOVASCULAR DRUGS: DOES NOVELTY MATTER?

Anderson T., Lo-Ciganic W., Gellad W. F. , Zhang R., Huskamp H. A. , Choudhry N. K. , Chang J., Richards-Shubik S., Guclu H., Jones B., et al.

Meeting of the Society-of-General-Internal-Medicine (SGIM), Florida, United States Of America, 11 May 2015 - 14 May 2016, vol.31

V. Ad-hoc Limited Scale-Free Models for Unstructured Peer-to-Peer Networks

Guclu H., Kumari D., Yuksel M.

8th International Conference on Peer-to-Peer Computing, Aachen, Germany, 8 - 11 September 2008, pp.160-162

VI. Extreme fluctuations in small-world-dcoupled autonomous systems with relaxational dynamics

Guclu H., Korniss G.

Conference on Noise in Complex Systems and Stochastic Dynamics II, Maspalomas, Spain, 26 - 28 May 2004, vol.5471, pp.159-170

VII. Going through rough times: From non-equilibrium surface growth to algorithmic scalability

Korniss G., Novotny M., Rikvold P., Guclu H., Toroczkai Z.

Symposium on Combinatorial and Artificial Intelligence Methods in Materials Science held at the 2001 MRS Fall Meeting, Massachusetts, United States Of America, 26 - 29 November 2001, vol.700, pp.297-308

Citations

Total Citations (WOS):1517

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