

Assoc. Prof. HARUN ARTUNER

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International Researcher IDs

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Biography

Graduated from Ankara University Physics Engineering Department in 1982, Assist. Assoc. Dr. Harun ARTUNER completed his PhD in Computer Engineering at Hacettepe University in 1990-1994. He is still working as a lecturer in the same department. At the same time, he was the Founder of Hacettepe University Forensic Informatics Research and Application Center and is a member of the board of directors. He continues his studies on Digital Signal Processing, Speech Recognition, Embedded Systems, Artificial Understanding and Forensic Informatics.

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Bilgisayar Bilimleri Mühendisliği (Dr), Turkey 1987 - 1994

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Bilgisayar Bilimleri Mühendisliği (YI) (Tezli), Turkey 1982 - 1987

Undergraduate, Ankara University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1977 - 1982

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bir türkçe fonem kümeleme sistemi tasarımı ve gerçekleştirimi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Bilimleri Mühendisliği (Dr), 1994

Postgraduate, Inter 8 ikil tek kart mikrobilgisayar donanımları için katman yapılı bir işletim dizgesi (CP/M) tasarım ve gerçekleştirimi, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Bilgisayar Bilimleri Mühendisliği (YI) (Tezli), 1987

Research Areas

Computer Sciences, Equipment, Microprogramming and Control Structure, Artificial Intelligence, Computer Learning and

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Bilimleri Mühendisliği Bölümü, 2012 - Continues

Hacettepe Üniversitesi, Bilişim Enstitüsü, Bilişim Sistemleri Anabilim Dalı, 2003 - 2012

Advising Theses

ARTUNER H., İleri gözetleyici faaliyetlerinin nesne yönelimli olarak modellenmesi, Postgraduate, A.BÜLBÜL(Student), 2004

ARTUNER H., Bir sanal eğitim destek sistemi tasarım ve uygulaması: Nadir 1000A, Postgraduate, B.AKÇAY(Student), 2003

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A novel approach detection for IIoT attacks via artificial intelligence**
Karacayılmaz G., ARTUNER H.
CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS, no.8, pp.10467-10485, 2024 (SCI-Expanded)
- II. **A Siamese Neural Network for Learning Semantically-Informed Sentence Embeddings**
Bölücü N., Can B., ARTUNER H.
Expert Systems with Applications, vol.214, 2023 (SCI-Expanded)
- III. **Turkish dialect recognition in terms of prosodic by long short-term memory neural networks**
IŞIK G., ARTUNER H.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.35, no.1, pp.213-224, 2020 (SCI-Expanded)
- IV. **Application of Decision Tree Algorithm for classification and identification of natural minerals using SEM-EDS**
AKKAŞ E., AKIN L., ÇUBUKÇU H. E., ARTUNER H.
COMPUTERS & GEOSCIENCES, vol.80, pp.38-48, 2015 (SCI-Expanded)
- V. **Forward and back substitution algorithms on GPU: a case study on modified incomplete Cholesky Preconditioner for three-dimensional finite difference method**
Aksari Y., ARTUNER H.
JOURNAL OF SUPERCOMPUTING, vol.62, no.1, pp.550-572, 2012 (SCI-Expanded)
- VI. **Efficient and Scalable Routing Algorithms for Collective Communication Operations on 2D All-Port Torus Networks**
İMRE K. M., Baransel C., ARTUNER H.
INTERNATIONAL JOURNAL OF PARALLEL PROGRAMMING, vol.39, no.6, pp.746-782, 2011 (SCI-Expanded)
- VII. **Clustering of volcanic ash arising from different fragmentation mechanisms using Kohonen self-organizing maps**
Ersoy O., Aydar E., Gourgaud A., Artuner H., Bayhan H.
COMPUTERS & GEOSCIENCES, vol.33, no.6, pp.821-828, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **LSTM-Based Deep Learning Methods for Prediction of Earthquakes Using Ionospheric Data**
Abri R., ARTUNER H.

Gazi University Journal of Science, vol.35, no.4, pp.1417-1431, 2022 (Scopus)

- II. **Derin Öğrenme Mimarilerinde Akustik ve Fonotaktik Öznelikleri Kullanan Türkçe Ağız Tanıma**
IŞIK G., ARTUNER H.

Bilişim Teknolojileri Dergisi, vol.13, no.3, pp.207-216, 2020 (Peer-Reviewed Journal)

- III. **Dağıtılmış Anahtarlamalı Özdirenç Görüntüleme Sistemi**

ULUSOY İ., ARTUNER H., Aydar E.

Yerbilimleri, vol.33, pp.205-218, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Predicting Earthquakes with Ionospheric Data: A Hybrid Approach Utilizing Deep AutoEncoder and LSTM Networks**
Abri R., Abri S., ARTUNER H., Cetin S.
3rd International Conference on Computing and Machine Intelligence (ICMI), Michigan, United States Of America, 13 - 14 April 2024
- II. **Cyber Attack Detection with Encrypted Network Connection Analysis**
GÖNEN S., Karacayilmaz G., ARTUNER H., BARIŞKAN M. A., YILMAZ E. N.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.622-629
- III. **A Novel Membrane with Soft Sensors to Directly Measure Mechanical Strain**
Kumbay Yildiz Ş., Düz N., Aydın E. Y., Akar S., Artuner H., Dinçer P. R., Uyanik I.
Neuroscience 2023 - Society for Neuroscience, Washington, Kiribati, 11 November 2023
- IV. **Big Data Analysis of Ionosphere Disturbances using Deep Autoencoder and Dense Network**
Abri R., ARTUNER H., Abri S., Cetin S.
11th International Conference on Data Science, Technology and Applications (DATA), Lisbon, Portugal, 11 - 13 July 2022, pp.158-167
- V. **A Dataset For Turkish Dialect Recognition and Classification with Deep Learning**
Isik G., ARTUNER H.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- VI. **Fusion of ionosonde measurements and TEC estimations using statistical techniques**
KÖROĞLU O., ARIKAN F., TOKER C., ARTUNER H., Mošna Z.
The second VarSITI General Symposium (VarSITI-2017), Irkutsk, Russia, 10 - 15 July 2017
- VII. **Recognition of Radio Signals with Deep Learning Neural Networks**
IŞIK G., ARTUNER H.
24th Signal Processing and Communication Application Conference (SIU), Zonguldak, Turkey, 16 - 19 May 2016, pp.837-840
- VIII. **SPACE WEATHER STUDIES OF IONOLAB GROUP**
ARIKAN F., SEZEN U., TOKER C., ARTUNER H., BULU G., DEMİR U., ERDEM E., ARIKAN O., Tuna H., Karatay S., et al.
URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), Seoul, South Korea, 21 - 25 August 2016, pp.1136-1139
- IX. **Online IRI Plas Interface Service by IONOLAB**
ARIKAN F., TL G., TOKER C., SEZEN U., ARTUNER H.
IRI 2015 Workshop KMITL, 9 - 13 November 2015
- X. **Improved IONOLAB TEC Space Weather Service**
ARIKAN F., SEZEN U., TOKER C., BULU G., ARTUNER H., KARATAY S.
IRI 2015 Workshop KMITL, 9 - 13 November 2015
- XI. **Application of decision tree algorithm for identification of rock forming minerals using energy dispersive spectrometry**
AKKAŞ E., ÇUBUKÇU H. E., ARTUNER H.
EGU 2014, VİYANA, Austria, 27 April - 02 May 2014, vol.16, pp.532

- XII. **Enerji Dağılım Spektroskopisi Kullanılarak Gerçek Zamanlı Otomatik Mineral Sınıflandırılması**
AKKAŞ E., ÇUBUKÇU H. E., ARTUNER H.
67. Türkiye Jeoloji Kurultayı, Ankara, Turkey, 14 - 18 April 2014
- XIII. **A Syllable-Based Turkish Speech Recognition System by Using Time Delay Neural Networks (TDNNs)**
CAN BUĞLALILAR B., ARTUNER H.
International Conference of Soft Computing and Pattern Recognition (SoCPaR), Ha-Noi, Vietnam, 15 December 2013 - 18 December 2015, pp.219-224
- XIV. **Efficient Mass Balancing of Flowsheet Data**
CESUR B., ARTUNER H., M ALİ S.
the 2012 International Conference on Systems and Informatics (ICSAI2012), Yantai, China, 10 - 12 October 2012
- XV. **Active Authentication by Mouse Movements**
Aksari Y., ARTUNER H.
24th International Symposium on Computer and Information Sciences, Güzelyurt, Cyprus (Kktc), 14 - 16 September 2009, pp.569-572

Metrics

Publication: 26

Citation (WoS): 73

Citation (Scopus): 62

H-Index (WoS): 4

H-Index (Scopus): 2

Non Academic Experience

TELLUS A.Ş.