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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAI-5722-2021

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Education Information

Doctorate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2014 - 2019

Postgraduate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2010 - 2012

Undergraduate, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, Turkey 2004 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Fourier analysis based testing of finite state machines, Izmir Institute Of Technology, Faculty Of Engineering, Department Of Computer Engineering, 2019

Postgraduate, A common representation, standardization, analysis for de novo sequencing results, Izmir Institute Of Technology, Institute Of Engineering And Natural Sciences, 2012

Research Areas

algorithms, bioinformatics, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition, Software Engineering

Academic Titles / Tasks

Assistant Professor, Ankara University, Mühendislik Fakültesi, Yapay Zeka ve Veri Mühendisliği Bölümü, 2022 - Continues

Assistant Professor, Bursa Uludağ University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Emotional Structure of Dialogues in Aging-Themed Movies: An Analysis on Text Mining**
Ergun D., TAKAN S., Katipoglu G.
SAGE OPEN, vol.14, no.3, 2024 (SSCI)
- II. **FAIR's principles-based, observed and monitored data structure for social media-based digital journalism FAIR prensipleriyle uyumlu gözlemlenebilen ve izlenebilen sosyal medya tabanlı dijital habercilik veri modeli**
TAKAN S., Ergün D.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.2, pp.1153-1166, 2024 (SCI-Expanded)
- III. **Knowledge graph augmentation: consistency, immutability, reliability, and context**
Takan S.
PEERJ COMPUTER SCIENCE, vol.9, no.0, pp.1542-1555, 2023 (SCI-Expanded)
- IV. **Bias in human data: A feedback from social sciences**
TAKAN S., Ergün D., Getir Yaman S., Kılınççeker O.
WILEY INTERDISCIPLINARY REVIEWS-DATA MINING AND KNOWLEDGE DISCOVERY, vol.13, no.4, 2023 (SCI-Expanded)
- V. **Gamified Text Testing for Sustainable Fairness**
TAKAN S., Ergün D., Katipoğlu G.
Sustainability (Switzerland), vol.15, no.3, 2023 (SCI-Expanded)
- VI. **Relational Logging Design Pattern**
TAKAN S., Katipoglu G.
CMC-COMPUTERS MATERIALS & CONTINUA, vol.75, no.1, pp.51-65, 2023 (SCI-Expanded)
- VII. **Novel Metrics for Mutation Analysis**
TAKAN S., Katipoglu G.
Computer Systems Science and Engineering, vol.46, no.2, pp.2075-2089, 2023 (SCI-Expanded)
- VIII. **Fair-News: Digital Journalism Model to Prevent Information Pollution and Manipulation**
TAKAN S., Erguen D., Katipoglu G.
CMC-COMPUTERS MATERIALS & CONTINUA, vol.75, no.3, pp.6059-6082, 2023 (SCI-Expanded)
- IX. **DNMSO; an ontology for representing de novo sequencing results from Tandem-MS data**
TAKAN S., Allmer J.
PEERJ, vol.8, 2020 (SCI-Expanded)
- X. **Mutant selection by using Fourier expansion**
TAKAN S., Ayav T.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.28, no.5, pp.2750-2767, 2020 (SCI-Expanded)
- XI. **Creation of mutants by using centrality criteria in social network analysis**
TAKAN S.
PEERJ COMPUTER SCIENCE, vol.6, 2020 (SCI-Expanded)
- XII. **Developing Applications On-Board of Robots with Becerik**
Komova B., TAKAN S.
ADVANCED MATERIALS RESEARCH, vol.403-408, pp.4689-4695, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Hitit Çivi Yazılı Tabletlerin Yapay Zeka Algoritmaları ile Okunması**
Bingöl B., Masalcı Şahin G., Sir Gavaz Ö., Takan S.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.17, no.3, pp.199-205, 2024 (Peer-Reviewed Journal)
- II. **Emotion Map of Dialogues in Old Age Themed Cinema Films**
Ergün Takan D., takan s., Paker K. O.
İletişim Kuram ve Araştırma Dergisi, no.66, pp.1-20, 2024 (Peer-Reviewed Journal)
- III. **Observability and Monitoring Design Pattern in Software Engineering**
TAKAN S., SOYGAZI F.
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.25, no.74, pp.395-404, 2023 (Peer-Reviewed Journal)
- IV. **Tag: A Blockchain Inspired Data Structure**
DORUK A., TAKAN S., SOYGAZI F., Demirtaş Z., Akkurt E.
Mühendislik bilimleri ve araştırmaları dergisi (Online), vol.5, no.1, pp.20-33, 2023 (Peer-Reviewed Journal)
- V. **A Transparent, Reliable, and Interdisciplinary Model for the Idea Development Laboratory**
TAKAN S., TAKAN D. E.
Bilişim Teknolojileri Dergisi, vol.16, no.2, pp.135-150, 2023 (Peer-Reviewed Journal)
- VI. **Community-wide collaboration is a must to reinstall trust in bioinformatics solutions and biomedical interpretation**
TAKAN S., Allmer J.
JOURNAL OF INTEGRATIVE BIOINFORMATICS, vol.20, no.1, 2023 (ESCI)
- VII. **AnkaLab: İnterdisipliner Fikir Geliştirme Laboratuvarı**
TAKAN S., Ergün Takan D.
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, 2023 (Peer-Reviewed Journal)
- VIII. **Social Sciences and Computer Science: New Opportunities and Solutions**
TAKAN S., Ergün Takan D.
Gelenbevi Scientific Research Journal, vol.2, no.2, pp.1-14, 2022 (Peer-Reviewed Journal)
- IX. **Kürsü: Oylama Süreçleri için Sosyal Medya Etkili Yönetişim Modeli**
TAKAN S., Ergün Takan D.
Bilgisayar Bilimleri ve Mühendisliği Dergisi, vol.15, no.2, pp.125-139, 2022 (Peer-Reviewed Journal)
- X. **Basitleştirilmiş Konut Enerji Simülasyon Programı KEP-SDM'nin BESTEST (Building Energy Simulation Test) Prosedürü ile Test Edilmesi**
GÖKÇEN AKKURT G., ŞAHİN C. D., TAKAN S., DURMUŞ ARSAN Z.
TTMD Isıtma, Soğutma, Havalandırma, Klima, Yangın ve Sıhhi Tesisat Dergisi, no.88, pp.23-30, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Proteogenomics**
Takan S.
in: De Novo Sequencing of Peptides from Tandem Mass Spectra and Applications in Proteogenomics, Jens Allmer, Abhishek Kumar, Editor, Springer, London/Berlin , New York, pp.1-19, 2024
- II. **DevOps'a Giriş**
TAKAN S., Terzi D.
Nobel Akademik, Ankara, 2022
- III. **IoS: A Needed Platform for Scientific Workflow Management**
Takan S., Allmer J.
in: Integrative Bioinformatics, Chen Ming, Hofestädt Ralf, Editor, Springer, London/Berlin , Singapore, pp.313-320, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Sosyal Bilimlerle Bilgisayar Bilimlerinin Kesişimi: Sosyoenformatik**
TAKAN S.
Uluslararası Güncel Araştırmalar Sempozyumu 2022 (UGAS'22), Turkey, 21 February 2022
- II. **Sonlu durum makinelerinin fourier analizi tabanlı sınanması**
TAKAN S., AYAV T.
12th Turkish National Software Engineering Symposium, UYMS 2018, İstanbul, Turkey, 10 - 14 November 2018, vol.2201, pp.17
- III. **Sayısal devrelerin model kontrol tabanlı testi**
TAKAN S.
9th Turkish National Software Engineering Symposium, UYMS 2015, İzmir, Turkey, 9 - 11 September 2015, vol.1483, pp.342-344, İzmir, Turkey, 9 - 12 November 2015
- IV. **Model Checker-Based Delay Fault Testing of Sequential Circuits**
TAKAN S., AYAV T.
ARCS 2015 - The 28th International Conference on Architecture of Computing Systems. Proceedings, Porto, Portugal, 24 - 27 March 2015, pp.1-7, Porto, Portugal, 25 - 28 March 2015
- V. **Position Control of a Three Degree of Freedom Robot Manipulator**
KATİPOĞLU G., TAKAN S.
Heavy Machinery-HM 2014, Zlatibor, Serbia, 25 - 28 July 2014, pp.41-44, Zlatibor, Serbia, 25 - 28 July 2014
- VI. **Testing Simplified Building Energy Simulation Program via Building Energy Simulation Test (BESTEST)**
GÖKÇEN AKKURT G., ŞAHİN C. D., TAKAN S., DURMUŞ ARSAN Z.
CLIMAMED 13: VII. Mediterranean Congress of Climatization, İstanbul, Turkey, 3 - 04 October 2013, pp.49-57
- VII. **De novo markup language, a standard to represent de novo sequencing results from MS/MS data**
TAKAN S., ALLMER J.
2012 7th International Symposium on Health Informatics and Bioinformatics, HIBIT 2012, Cappadocia, Turkey, 19 - 22 April 2012, pp.31-36, Cappadocia, Turkey, 19 - 25 April 2012

Supported Projects

Takan S., TUBITAK Project, Lora Haberleşme Ağı, 2022 - 2024

Takan S., TUBITAK Project, BAZTASARIM: Spectral Verimli Küçük Hücre Baz İstasyonu için KarışımÖnleme ve Geri Besleme Kanal Tasarımı, 2016 - 2018

Patent

Takan S., News sharing and management system, Patent, CHAPTER H Electricity, The Invention Recourse Number: EP/2022/004568 , Standard Registration, 2022

Takan S., Interdisciplinary Idea Development Laboratory, Patent, CHAPTER H Electricity, The Invention Recourse Number: EP/TP22-1473 , Standard Registration, 2022

Takan S., Digital Governance Model, Patent, CHAPTER H Electricity, The Invention Recourse Number: EP/2022-00102 , Standard Registration, 2022