

Asst. Prof. MUSTAFA TUNAY

Personal Information

Email: mtunay@gelisim.edu.tr

Web: <https://avesis.gelisim.edu.tr/mtunay>

International Researcher IDs

ORCID: 0000-0001-8843-621X

Yoksis Researcher ID: 229562

Education Information

Doctorate, Near East University, Institute Of Science, Bilgisayar Mühendisliği, Cyprus (Kkct) 2011 - 2015

Postgraduate, Girne American University, Institute Of Science And Technological Sciences, Bilgisayar Mühendisliği, Cyprus (Kkct) 2009 - 2011

Undergraduate, Girne American University, Faculty Of Education, Department Of Computer And Education Technologies Teaching, Cyprus (Kkct) 2004 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Evolutionary search algorithm basedon hypercube optimisation, Near East University, 2015

Postgraduate, Comparison of modified genetic algorithm & monkey search algorithm on specific benchmark functions, Girne Amerikan Üniversitesi, Fen Ve Teknoloji Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2011

Academic and Administrative Experience

Istanbul Gelisim University, 2021 - Continues

Courses

Görsel Programlama, Undergraduate, 2022 - 2023

İleri Algoritma Analizi ve Tasarımı, Postgraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- Urban resilience in the digital age: The influence of Information-Communication Technology for sustainability**

AGBOOLA O. P., Tunay M.

Journal of Cleaner Production, vol.428, 2023 (SCI-Expanded)

- II. **Improved Hypercube Optimisation Search Algorithm for Optimisation of High Dimensional Functions**
Tunay M., Abiyev R.
Mathematical Problems in Engineering, vol.2022, 2022 (SCI-Expanded)
- III. **Hybrid Hypercube Optimization Search Algorithm and Multilayer Perceptron Neural Network for Medical Data Classification**
Tunay M., Pashaei E., Pashaei E.
Computational Intelligence and Neuroscience, vol.2022, 2022 (SCI-Expanded)
- IV. **A New Design of Metaheuristic Search Called Improved Monkey Algorithm Based on Random Perturbation for Optimization Problems**
Tunay M.
Scientific Programming, vol.2021, 2021 (SCI-Expanded)
- V. **Optimization of high-dimensional functions through hypercube evaluation**
Abiyev R. H., Tunay M.
Computational Intelligence and Neuroscience, vol.2015, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **A New Approach Method of Crossover Process Based On Genetic Algorithm Using High Dimensional Benchmark Functions**
TUNAY M.
American Journal of Science & Engineering, vol.2, no.2, pp.26-33, 2021 (Peer-Reviewed Journal)
- II. **Çalışanların Liderlik, Mobbing ve İş Tutumu Arasındaki İlişkilerinin İncelenmesi: Nahçıvan Öğretmenler Enstitüsü**
TUNAY M., KAMILOV R.
Alanya Akademik Bakış, vol.5, no.1, pp.473-485, 2021 (Peer-Reviewed Journal)
- III. **A New Approach Model of e-Visual Career Application in Distance Education**
TUNAY M.
American Journal of Science & Engineering, no.4, pp.9-15, 2020 (Peer-Reviewed Journal)
- IV. **Evolutionary Search Algorithm Based on Hypercube Optimization For High-Dimensional Functions**
TUNAY M.
International Journal of Computational and Experimental Science and Engineering, vol.6, no.1, pp.42-62, 2020 (Peer-Reviewed Journal)
- V. **Experimental Study of Specific Benchmarking Functions for Modified Monkey Algorithm**
TUNAY M., ABIYEV R.
PROCEDIA COMPUTER SCIENCE, vol.102, pp.595-602, 2016 (Scopus)
- VI. **Hybrid Local Search Based Genetic Algorithm and Its Practical Application**
TUNAY M., ABIYEV R.
International Journal of Soft Computing and Engineering (IJSCE), vol.5, no.2, 2015 (Peer-Reviewed Journal)
- VII. **Analysis of Possibility Theory for Reasoning under Uncertainty**
ALOLA A. A., TUNAY M., ALOLA U. V.
International Journal of Statistics and Probability, vol.2, no.2, pp.12-23, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **A Novel Design of Optimization Algorithm Based on Optimization Problems and Its Application on Real Life Problems**
TUNAY M.
İstanbul Gelişim Üniversitesi, İstanbul, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **Detection of Cyber Attacks Targeting Autonomous Vehicles Using Machine Learning**
Onur F., Barışkan M. A., Gönen S., Kubat C., Tunay M., Yılmaz E. N.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.439-449
- II. **Optimization Search Using Hypercubes**
Abiyev R. H., Tunay M.
4th International Symposium on Multidisciplinary Studies and Innovative Technologies, ISMSIT 2020, İstanbul, Turkey, 22 - 24 October 2020
- III. **A new approach model of e-Visual career application in distance education**
Tunay M.
2020 IEEE International IOT, Electronics and Mechatronics Conference, IEMTRONICS 2020, Vancouver, Canada, 9 - 12 September 2020
- IV. **A New Intense Stochastic Search Method Based on Hypercube Evaluation for Examination Timetabling Problems**
Tunay M.
2nd International Conference on Electrical, Communication and Computer Engineering, ICECCE 2020, İstanbul, Turkey, 12 - 13 June 2020