

Asst. Prof. Sha Tuna

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Istanbul Technical University, Bilişim Enstits, Hesaplamalı Bilim Ve Mhendislik, Turkey 2010 - 2017

Research Areas

algorithms, bioinformatics, Artificial Intelligence, Computer Learning and Pattern Recognition, Linear and Multilinear Algebra: Matrix Theory, Optimization, Numerical Analysis, Approximations and Expansions

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Bilişim Enstits, Hesaplamalı Bilim Ve Mhendislik, 2021 - Continues

Assistant Professor, Fatih Sultan Mehmet Foundation University, Faculty Of Engineering, Department Of Computer Engineering, 2017 - 2021

Researcher, University of Strathclyde, Faculty of Engineering, Electronic and Electrical Engineering, 2019 - 2019

Research Assistant, Istanbul Technical University, Bilişim Enstits, Hesaplamalı Bilim Ve Mhendislik, 2010 - 2016

Courses

Scientific Computing I, Postgraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Low-cost VIS/NIR range hand-held and portable photospectrometer and evaluation of machine learning algorithms for classification performance**
Heydarov S., Aydin M., Faydaci C., Tuna S., ZTRK S.
Engineering Science and Technology, an International Journal, vol.37, 2023 (SCI-Expanded)
- II. **An efficient feature extraction approach for hyperspectral images using Wavelet High Dimensional Model Representation**
Tuna S., Korkmaz zay E., Tunga B., Grvit E., Tunga M. A.
International Journal of Remote Sensing, vol.43, no.19-24, pp.6899-6920, 2022 (SCI-Expanded)

- III. **Iterative Enhanced Multivariate Products Representation for Effective Compression of Hyperspectral Images**
Tuna S., Töreyin B. U., Demiralp M., Ren J., Zhao H., Marshall S.
IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, vol.59, no.11, pp.9569-9584, 2021 (SCI-Expanded)
- IV. **Zero interval limit perturbation expansion for the spectral entities of Hilbert-Schmidt operators combined with most dominant spectral component extraction: convergence and confirmative implementations**
Tuna S., Demiralp M.
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.55, no.6, pp.1278-1300, 2017 (SCI-Expanded)
- V. **Zero interval limit perturbation expansion for the spectral entities of Hilbert-Schmidt operators combined with most dominant spectral component extraction: formulation and certain technicalities**
Demiralp M., Tuna S.
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.55, no.6, pp.1253-1277, 2017 (SCI-Expanded)
- VI. **On Autonomy Imposition in Zero Interval Limit Perturbation Expansion for the Spectral Entities of Hilbert-Schmidt Integral Operators**
Tuna S., Demiralp M.
MATHEMATICS, vol.5, no.1, 2017 (SCI-Expanded)
- VII. **A novel piecewise multivariate function approximation method via universal matrix representation**
Tuna S., Tunga B.
JOURNAL OF MATHEMATICAL CHEMISTRY, vol.51, no.7, pp.1784-1801, 2013 (SCI-Expanded)

Supported Projects

Tuna S., Project Supported by Higher Education Institutions, Hiperspektral Görüntülerin Kayıplı Sıkıştırılması ve Sınıflandırma için Tensör Ayrıştırımı Tabanlı Yeni Bir Yöntem Geliştirilmesi, 2021 - Continues

Töreyin B. U., TUBITAK Project, Uzaktan Algılama Amacıyla Edinilen Hiperspektral Görüntülerin Çevrimiçi Öğrenmeye Dayalı Sıkıştırılması, 2014 - 2016

Metrics

Publication: 9

Citation (WoS): 16

Citation (Scopus): 27

H-Index (WoS): 2

H-Index (Scopus): 3