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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, The University of Houston, Amerika Birleşik Devletleri 2012 - 2017

Lisans, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 2007 - 2012

Yaptığı Tezler

Doktora, Geometric Multi scale Analysis and Applications to Neuroscience Imaging, The University of Houston, 2017

Verdiği Dersler

lineer cebir ve diferansiyel denklemler, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020

Medikal Görüntü Analizi, Yüksek Lisans, 2021 - 2022

Ayrik Matematik, Lisans, 2021 - 2022

Formal Dillere Giriş ve Otomata Teorisi, Lisans, 2020 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. Advances in quantitative analysis of astrocytes using machine learning

Labate D., Kayasandik C. B.

Neural Regeneration Research, cilt.18, sa.2, ss.313-314, 2023 (SCI-Expanded)

II. Automated detection of GFAP-labeled astrocytes in micrographs using YOLOv5

Huang Y., Kruyer A., Syed S., KAYASANDIK C. B., Papadakis M., Labate D.

Scientific Reports, cilt.12, sa.1, 2022 (SCI-Expanded)

III. Predicting the Effects of Repetitive Transcranial Magnetic Stimulation on Cognitive Functions in Patients With Alzheimer's Disease by Automated EEG Analysis

KAYASANDIK C. B., Velioglu H. A., HANOĞLU L.

Frontiers in Cellular Neuroscience, cilt.16, 2022 (SCI-Expanded)

IV. Inhibition of AKT Signaling Alters βIV Spectrin Distribution at the AIS and Increases Neuronal Excitability

Di Re J., Hsu W. J., Kayasandik C. B., Fularczyk N., James T., Nenov M. N., Negi P., Marosi M., Scala F., Prasad S., et al.

Frontiers in Molecular Neuroscience, cilt.14, 2021 (SCI-Expanded)

V. A multistep deep learning framework for the automated detection and segmentation of astrocytes in fluorescent images of brain tissue

KAYASANDIK C. B., Ru W., Labate D.

- Scientific Reports, cilt.10, sa.1, 2020 (SCI-Expanded)
- VI. **Directional multiscale representations and applications in digital neuron reconstruction**
 Kayasandik C. B., Guo K., Labate D.
 Journal of Computational and Applied Mathematics, cilt.349, ss.482-493, 2019 (SCI-Expanded)
- VII. **Automated sorting of neuronal trees in fluorescent images of neuronal networks using NeuroTreeTracer**
 Kayasandik C. B., Negi P., Laezza F., Papadakis M., Labate D.
 Scientific Reports, cilt.8, sa.1, 2018 (SCI-Expanded)
- VIII. **Improved detection of soma location and morphology in fluorescence microscopy images of neurons**
 Kayasandik C. B., Labate D.
 Journal of Neuroscience Methods, cilt.274, ss.61-70, 2016 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

- I. **Automated Detection of Collagen Bundles in Second Harmonic Generation Microscopy Images**
 KAYASANDIK C. B.
 Balkan Journal of Electrical and Computer Engineering, cilt.11, sa.4, ss.352-363, 2023 (Hakemli Dergi)
- II. **Imaging of the Axon Initial Segment**
 Di Re J., Kayasandik C. B., Botello-Lins G., Labate D., Laezza F.
 Current Protocols in Neuroscience, cilt.89, sa.1, 2019 (Scopus)

Kitap & Kitap Bölümleri

- I. **Enhancing Collagen Bundle Structure Analysis: A Robust Approach through Crossing Density Analysis with Orientable Filters**
 wheba a., KAYASANDIK C. B.
 New Discussions in Biosystems Engineering, Hikmet Yeter Çoğun, Editör, BIDGE Publications, İstanbul, ss.43-58, 2023
- II. **Konjenital Diyafragma Hernisinde Görüntü İşleme Yöntemleri ile Fetal Akciğer Karakterizasyonu**
 AYDIN E., KAYASANDIK C. B., AKSAN A., ERAKIN M. E.
 Sağlıkta Yapay Zeka Uygulamaları, Can Özlu, Mehmet Ali Gedik, Nilüfer Köylüoğlu, Hilmi Sefa Yangal, Aysun Özlu, Editör, Akademisyen Yayınevi, Ankara, ss.163-173, 2021

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **rs-fMRI Analysis Using Spatio-Temporal Sparse Convolutional Neural Networks**
 Yener F. M., YILDIZ S., Hafeez M. A., KAYASANDIK C. B., DOĞAN M. Y.
 30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022
- II. **Brain Tumor Classification Using MRI Images and Convolutional Neural Networks**
 Hafeez M. A., KAYASANDIK C. B., DOĞAN M. Y.
 30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022
- III. **Automated Analysis of the EEG signals for Prediction of Possible Effectiveness of rTMS Treatment in Alzheimer's Patient**
 Duzman H., Torlak M., Hindi O. A., KAYASANDIK C. B.
 30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Türkiye, 15 - 18 Mayıs 2022

IV. Can the possible effect of Transcranial Magnetic Stimulation on cognitive functions in Alzheimer's patients be predicted by EEG classification?

KAYASANDIK C. B., VELİOĞLU H. A., HANOĞLU L.

7th International Conference on Non-Invasive Brain Stimulation (NIBS), Almany, 24 Mart 2020