Res. Asst. PhD TURAN GÖKTUĞ ALTUNDOĞAN

Personal Information

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International Researcher IDs
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Education

Doctorate, Firat University, Turkey 2019 - 2025
Postgraduate, Firat University, Turkey 2017 - 2019
Undergraduate Double Major, Firat University, Turkey 2014 - 2019
Undergraduate, Firat University, Turkey 2012 - 2017

Dissertations

Postgraduate, Derin öğrenme kullanan dinamik bulanık bilişsel haritalar ile gerçek zamanlı nesne takibi, Firat University, 2019

Research Areas

Avesis Research Areas: Computer Sciences, Engineering and Technology
WoS Research Areas: Engineering Computing & Technology (Eng)
Scopus Research Areas: Artificial Intelligence, Computer Science (miscellaneous)

Academic Positions

Research Assistant PhD, Manisa Celal Bayar University, Mühendislik Fakültesi, 2018 - Present

Articles

I. **MedFakeDet: multi-organ medical deepfake detection and inpainting localization system via effective deep learning models and density maps**
Karakose M., ALTUNDOĞAN T. G., Çeçen M.
SoftwareX, vol.34, 2026 (SCI-Expanded, Scopus)

II. **Bridging Crowd Analysis and Natural Language: A New Vision Language Approach for Behavioral Video Captioning**
Gürbüz S., ALTUNDOĞAN T. G., Karaköse M.

IEEE Access, vol.14, pp.102795-102810, 2026 (SCI-Expanded, Scopus)

III. **QUBVIS: query based multi-modal summarization system using CLIP based transformer and vision language models**
ALTUNDOĞAN T. G., Karakose M.
SoftwareX, vol.31, 2025 (SCI-Expanded, Scopus)

IV. **Dynamic Fuzzy Cognitive Maps-Based Crowd Analysis Using Time Series Obtained From Video Processing**
Goktug Altundogan T. G., Karakose M., Yaman O., Tanberk S., Mert F., OZANSOY A.
IEEE ACCESS, vol.13, pp.33813-33833, 2025 (SCI-Expanded, Scopus)

V. **A Realistic and New Approach for Crowd Density, Quantity, Types, and Anomaly Detection Using Effective Multi-Task Deep Learning Model**
ALTUNDOĞAN T. G., Gurbuz S., Karakose M.
IEEE Access, vol.13, pp.182430-182443, 2025 (SCI-Expanded, Scopus)

VI. **A New Multi Objective Video Summarization Approach for Video Surveillance Analytics Applications on Smart Cities**
ALTUNDOĞAN T. G., Karakose M., Mert F.
IEEE Access, vol.13, pp.154353-154382, 2025 (SCI-Expanded, Scopus)

VII. **Weighted Visibility Graph Based WiFi Indoor Positioning Method Using Heuristic Optimization**
ALTUNDOĞAN T. G., KARAKÖSE M.
Turkish Journal of Science and Technology, vol.19, no.1, pp.133-145, 2024 (TRDizin)

VIII. **Derin Yapay Sinir Ağları Kullanan Dinamik Bulanık Bilişsel Haritalarla Çoklu Görüde Nesne Takibi**
ALTUNDOĞAN T. G., KARAKÖSE M.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.33, no.2, pp.455-470, 2021 (TRDizin)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **A New YOLO Based Spatio-Behavioural Feature Analysis for Anomaly Detection in Crowd Videos**
Ağaç N., Gürbüz S., ALTUNDOĞAN T. G., Karaköse M.
16th International Conference on Advanced Computer Information Technologies, ACIT 2026, Zlin, Czech Republic, 2 - 04 September 2026, pp.1471-1475, (Full Text)

II. **A New CLIP Based Domain-Specific Image-Text Alignment Approach for VQA and Image Captioning in Interpretation of Crowd Images**
ALTUNDOĞAN T. G., Gürbüz S., Karaköse M.
16th International Conference on Advanced Computer Information Technologies, ACIT 2026, Zlin, Czech Republic, 2 - 04 September 2026, pp.1572-1575, (Full Text)

III. **Detecting DDPM-Manipulated Medical Images Using Contrastive Learning-based Pre-Training**
ALTUNDOĞAN T. G., Karakose M.
2026 30th International Conference on Information Technology, IT 2026, Zabljak, Montenegro, 24 - 28 February 2026, (Full Text)

IV. **A New BLIP based Natural Language Analysis Method for Crowd Images**
ALTUNDOĞAN T. G., Gurbuz S., Karakose M.
2026 30th International Conference on Information Technology, IT 2026, Zabljak, Montenegro, 24 - 28 February 2026, (Full Text)

V. **A New Video Summarization Approach Using Object Density Based Image Similarity for Smart City Applications**
ALTUNDOĞAN T. G., Karakose M., Mert F.
29th International Conference on Information Technology, IT 2025, Zabljak, Montenegro, 19 - 22 February 2025, (Full Text)

VI. **Reconstructing Artistic Heritage: Style Transfer in Ottoman Miniature Paintings Using Pre-Trained CNN with PSNR Based Image Similarity**

ALTUNDOĞAN T. G., Karakose M.
2nd International Conference on Sustaining Heritage, ICSH 2024, Virtual, Online, Bahrain, 29 - 30 September 2024, pp.6-10, (Full Text)

VII. **Transformer Based Multimodal Summarization and Highlight Abstraction Approach for Texts and Speech Audios**
ALTUNDOĞAN T. G., Karakose M., Tanberk S.
2024 28th International Conference on Information Technology, IT 2024, Zabljak, Montenegro, 21 - 24 February 2024, (Full Text)

VIII. **BART Fine Tuning based Abstractive Summarization of Patients Medical Questions Texts**
ALTUNDOĞAN T. G., Karakose M., Tokel O.
4th International Conference on Data Analytics for Business and Industry, ICDABI 2023, Virtual, Online, Bahrain, 25 - 27 October 2023, pp.174-178, (Full Text)

IX. **Sentiment Analysis for Patient Reviews in Hospitals by CNN and LSTM Neural Networks Using Pretrained Word Embeddings**
ALTUNDOĞAN T. G., Karakose M., Yilmazer S., Hanoglu E., Demirel S.
2023 Innovations in Intelligent Systems and Applications Conference, ASYU 2023, Sivas, Turkey, 11 - 13 October 2023, (Full Text)

X. **LSTM Encoder Decoder Based Text Highlight Abstraction Method Using Summaries Extracted by PageRank**
ALTUNDOĞAN T. G., Karakose M.
27th International Conference on Information Technology, IT 2023, Zabljak, Montenegro, 15 - 18 February 2023, (Full Text)

XI. **EEG Signal Classification with Deep Neural Networks using Visibility Graphs**
Altundogan T. G., Karakose M.
26th International Conference on Information Technology, IT 2022, Zabljak, Montenegro, 16 - 20 February 2022, (Full Text)

XII. **Cracked Wall Image Classification Based on Deep Neural Network Using Visibility Graph Features**
ALTUNDOĞAN T. G., Karakose M.
2021 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies, 3ICT 2021, Virtual, Online, Bahrain, 29 - 30 September 2021, pp.36-39, (Full Text)

XIII. **Genetic Algorithm Approach based on Graph Theory for Location Optimization of Electric Vehicle Charging Stations**
ALTUNDOĞAN T. G., Yildiz A., Karakose E.
2021 Innovations in Intelligent Systems and Applications Conference, ASYU 2021, Elazığ, Turkey, 6 - 08 October 2021, (Full Text)

XIV. **Genetic Algorithm Based Fuzzy Cognitive Map Concept Relationship Determination and Sigmoid Configuration**
ALTUNDOĞAN T. G., Karakose M.
6th IEEE International Symposium on Systems Engineering, ISSE 2020, Virtual, Vienna, Austria, 12 October - 12 November 2020, (Full Text)

XV. **A Noise Reduction Approach Using Dynamic Fuzzy Cognitive Maps for Vehicle Traffic Camera Images**
ALTUNDOĞAN T. G., Karakose M.
2020 Zooming Innovation in Consumer Technologies Conference, ZINC 2020, Virtual, Online, Serbia, 26 - 27 May 2020, pp.15-20, (Full Text)

XVI. **A New Deep Neural Network Based Dynamic Fuzzy Cognitive Map Weight Updating Approach**
ALTUNDOĞAN T. G., Karakose M.
2019 International Conference on Artificial Intelligence and Data Processing Symposium, IDAP 2019, Malatya, Turkey, 21 - 22 September 2019, (Full Text)

XVII. **Multiple Object Tracking with Dynamic Fuzzy Cognitive Maps Using Deep Learning**
ALTUNDOĞAN T. G., Karakose M.
2019 International Conference on Artificial Intelligence and Data Processing Symposium, IDAP 2019, Malatya,

Turkey, 21 - 22 September 2019, (Full Text)

XVIII. **Image Processing and Deep Neural Image Classification Based Physical Feature Determiner for Traffic Stakeholders**
ALTUNDOĞAN T. G., Karakose M.
7th International Istanbul Smart Grids and Cities Congress and Fair, ICSG 2019, İstanbul, Turkey, 25 - 26 April 2019, pp.169-173, (Full Text)

XIX. **Performance Analysis of EEG Signal Processing Based Device Control Applications**
ALTUNDOĞAN T. G., Karakose M.
2018 International Conference on Artificial Intelligence and Data Processing, IDAP 2018, Malatya, Turkey, 28 - 30 September 2018, (Full Text)

XX. **An Approach for Online Weight Update Using Particle Swarm Optimization in Dynamic Fuzzy Cognitive Maps**
ALTUNDOĞAN T. G., Karakose M.
3rd International Conference on Computer Science and Engineering, UBMK 2018, Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.522-526, (Full Text)

Funded Projects

ÇUKURBAŞI B., HAMAN M., HALİTOĞLU Ş. N., ZAMBAK A., BAŞARAN M., ALTUNDOĞAN T. G., ATALMIŞ H. E., KARACA D., ÖNCÜL V., UYGUR E., et al., STREAM It Up!-2 (STU15022GR0024 Federal Hibe Numarası), 2022 - 2023

Metrics

Publication: 28
Citation (WoS): 10
Citation (Scopus): 122
H-Index (WoS): 2
H-Index (Scopus): 5