Res. Asst. PhD TUĞBA ÇELİKTEN

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International Researcher IDs
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Publons / Web Of Science ResearcherID: LJM-4102-2024
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Education

Doctorate, Izmir Katip Celebi University, Turkey 2023 - 2026
Postgraduate, Manisa Celal Bayar University, Turkey 2021 - 2023
Undergraduate, Turkey 2011 - 2015

Dissertations

Doctorate, The implementation of a multi-agent large language model based architecture for biomedical natural language processing, Izmir Katip Celebi University, 2026
Postgraduate, Derin öğrenme yaklaşmaları ile yazılım proje gereksinimlerinin sınıflandırılması ve başarım sonuçlarının değerlendirilmesi, Manisa Celal Bayar University, 2023

Research Areas

Avesis Research Areas: Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition
WoS Research Areas: Computer Science Artificial Intelligence
Scopus Research Areas: Artificial Intelligence

Articles

I. **Exploring Graph-Based Techniques in Text Data Processing: A Comprehensive Survey of NLP Advancements**
ÇELİKTEN T., Onan A.
ICCK Transactions on Emerging Topics in Artificial Intelligence, vol.3, no.2, pp.86-127, 2026 (Scopus)

II. **When Does Instruction Tuning Work in Biomedical NLP? A Structural, Task-Aware, and Safety-Critical Evaluation of Large Language Models**
Onan A., Nasution A. H., ÇELİKTEN T.
IEEE Access, vol.14, pp.74190-74220, 2026 (SCI-Expanded, Scopus)

III. **Comparing ChatGPT, Gemini, and Emerging LLMs in Low-Resource Educational Settings: Reasoning Quality, Consistency, and Explainability**
Onan A., Nasution A. H., ÇELİKTEN T., Cetin P.

IEEE Access, vol.14, pp.32807-32838, 2026 (SCI-Expanded, Scopus)

IV. **Medcongtm: Interpretable multi-label clinical code prediction with dual-view graph contrastive topic modeling**
ÇELİKTEN T., Onan A.
Knowledge-Based Systems, vol.327, 2025 (SCI-Expanded, Scopus)

V. **Topic modeling through rank-based aggregation and LLMs: An approach for AI and human-generated scientific texts**
ÇELİKTEN T., Onan A.
Knowledge-Based Systems, vol.314, 2025 (SCI-Expanded, Scopus)

VI. **Exploring Text Similarity in Human and AI-Generated Scientific Abstracts: A Comprehensive Analysis**
ÇELİKTEN T., Onan A.
IEEE ACCESS, vol.13, pp.74313-74334, 2025 (SCI-Expanded, Scopus)

VII. **Toward Reliable Annotation in Low-Resource NLP: A Mixture of Agents Framework and Multi-LLM Benchmarking**
Onan A., Nasution A. H., ÇELİKTEN T.
IEEE Access, vol.13, pp.211620-211644, 2025 (SCI-Expanded, Scopus)

VIII. **Benchmarking Large Language Models for Biomedical Literature Summarization: Abstractive vs. Extractive Paradigms**
ÇELİKTEN T., Onan A.
IEEE Access, vol.13, pp.152682-152715, 2025 (SCI-Expanded, Scopus)

IX. **HybridGAD: Identification of AI-Generated Radiology Abstracts Based on a Novel Hybrid Model with Attention Mechanism**
ÇELİKTEN T., Onan A.
Computers, Materials and Continua, vol.80, no.2, pp.3351-3377, 2024 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Computational Intelligence in Legal NLP: Evaluating Language Models on Turkish Legal Texts**
Cam B., Kömürcü M. A., Kaya M., Ergün A. E., ÇELİKTEN T., Onan A.
7th International Conference on Intelligent and Fuzzy Systems, INFUS 2025, İstanbul, Turkey, 29 - 31 July 2025, vol.1529 LNNS, pp.527-534, (Full Text)

II. **Predicting Machine Learning Model Performance from Dataset Characteristics**
Efe A. G., ÇELİKTEN T., Ergün A. E., Onan A.
7th International Conference on Intelligent and Fuzzy Systems, INFUS 2025, İstanbul, Turkey, 29 - 31 July 2025, vol.1529 LNNS, pp.146-153, (Full Text)

III. **Understanding Large Language Model Performance in Question Answering: A Comparative Analysis of Semantic and Lexical Metrics**
Erkan E. E., Kömürcü M. A., ÇELİKTEN T., Ergün A. E., Onan A.
7th International Conference on Intelligent and Fuzzy Systems, INFUS 2025, İstanbul, Turkey, 29 - 31 July 2025, vol.1529 LNNS, pp.519-526, (Full Text)

IV. **Beyond Resumes: Multi-dimensional Analysis Based Job and CV Matching**
Aydoğmuş B., Yüksel S., ÇELİKTEN T., Ergün A. E., Onan A.
7th International Conference on Intelligent and Fuzzy Systems, INFUS 2025, İstanbul, Turkey, 29 - 31 July 2025, vol.1529 LNNS, pp.510-518, (Full Text)

V. **A Deep Learning Approach to Sentiment Classification: Insights from Product Review Analysis**
Ceran İ., Kaya M., Kaçmaz Y., Ergün A. E., ÇELİKTEN T., Onan A.
7th International Conference on Intelligent and Fuzzy Systems, INFUS 2025, İstanbul, Turkey, 29 - 31 July 2025, vol.1529 LNNS, pp.37-44, (Full Text)

VI. **EmbedTurk: Leveraging Large Language Models as Text Encoders for Turkish Language**
Oytac D., Ergün A. E., ÇELİKTEN T., Onan A.

7th International Conference on Intelligent and Fuzzy Systems, INFUS 2025, İstanbul, Turkey, 29 - 31 July 2025, vol.1529 LNNS, pp.593-600, (Full Text)

VII. **Evaluating the Coherence and Diversity in AI-Generated and Paraphrased Scientific Abstracts: A Fuzzy Topic Modeling Approach**
Onan A., ÇELİKTEN T.
International Conference on Intelligent and Fuzzy Systems, INFUS 2024, Çanakkale, Turkey, 16 - 18 July 2024, vol.1088 LNNS, pp.149-157, (Full Text)

VIII. **Yazılım Gereksinimlerinin Derin Öğrenme Yaklaşımları ile Sınıflandırılması**
YÜCALAR F., ÇELİKTEN T.
Karadeniz 13th International Conference on Applied Sciences, St. Petersburg, Russia, 21 - 24 July 2023, pp.167-173, (Full Text)

IX. **Weka ile Makine Öğrenimi Algoritmaları Kullanarak Yazılım Proje Gereksinimlerinin Sınıflandırılması**
ÇELİKTEN T., YÜCALAR F.
Avrasya 8th International Conference on Applied Sciences, Tbilisi, Georgia, 14 - 16 July 2023, (Full Text)

Funded Projects

BORANDAĞ E., YÜCALAR F., ÖZÇEVİK M., ÇELİKTEN T., AYGÜN İ., VAROL ALTAY E., ASLAN E., ÖZÇİFT A., AYGÜN E. N., ALTAY O., et al., Project Supported by Higher Education Institutions, Dijital Dönüşüm ve Yenilikçi Teknolojiler Çalıştayı, 2023 - 2024

BORANDAĞ E., ÖZÇEVİK M., ÇELİKTEN T., ÖZÇEVİK Y., Project Supported by Higher Education Institutions, Farklı Mobil Uygulama Geliştirme Yaklaşımlarının Kullanıcı Deneyimine Etkisinin Araştırılması, 2022 - 2023

Metrics

Publication: 18
Citation (WoS): 22
Citation (Scopus): 35
H-Index (WoS): 2
H-Index (Scopus): 3

Non Academic Experience

AssisTT, Yazılım Uzmanı
Egerobot, Yazılım Geliştirici