

Elif Selen BABÜROĞLU
Arş. Gör. Dr.



Doğum Tarihi: 01/10/1992

Uyruğu: Türkiye Cumhuriyeti

E-Posta Adresi: esbuyuknacar@gantep.edu.tr

Telefon (İş): 0 (342) 3172636

Telefon (Cep): 0532 670 95 75

Adres: Güvenevler Mah. 29096 nolu sk. Vizyon Konutları. B/4.
Şhitkâmil/GAZİANTEP

Öğrenim Bilgisi

Derece	Bölüm/Program	Üniversite	Yıl
Lisans	Endüstri Mühendisliği	Gaziantep Üniversitesi	2016
Lisans (Yandal)	Gıda Mühendisliği	Gaziantep Üniversitesi	2016
Lisans	Çalışma Ekonomisi ve Endüstri İlişkileri	Anadolu Üniversitesi	2022
Y. Lisans	Endüstri Mühendisliği	Gaziantep Üniversitesi	2019
Doktora	Endüstri Mühendisliği	Gaziantep Üniversitesi	2026

Doktora Tezi Başlığı: AN ADVANCED CONTEXT-AWARE METHOD FOR DETECTING USER INTEREST DRIFT: METHODOLOGY, STATISTICAL ANALYSIS, AND EMPIRICAL EVALUATION, **Tez Danışmanları:** Prof. Dr. Alptekin DURMUŞOĞLU, Prof. Dr. Türkay DERELİ.

Yüksek Lisans Tezi Başlığı: A MATCHED-PAIR COMPARATIVE STUDY ON CLASSIFICATION OF DATA STREAMS WITH CONCEPT DRIFT, **Tez Danışmanları:** Prof. Dr. Alptekin DURMUŞOĞLU, Prof. Dr. Türkay DERELİ.

Akademik Görevler

Görev Unvanı	Görev Yeri	Yıl
Arş. Gör.	Gaziantep Üniversitesi Mühendislik Fakültesi Endüstri Mühendisliği Bölümü	2018-

Eserler

A. Uluslararası Hakemli Dergilerde Yayımlanan Yayınlar

A1. Babüroğlu, E.S., Durmuşoğlu, A. & Dereli, T. Concept drift from 1980 to 2020: a comprehensive bibliometric analysis with future research insight. *Evolving Systems* **15**, 789–809 (2024). <https://doi.org/10.1007/s12530-023-09503-2>

A2. Babüroğlu, E.S., Durmuşoğlu, A. & Dereli, T. Novel hybrid pair recommendations based on a large-scale comparative study of concept drift detection. *Expert Systems with Applications* **163**, (2021). <https://doi.org/10.1016/j.eswa.2020.113786>

B. Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında basılan Bildiriler

A1. Babüroğlu, E.S., Durmuşoğlu, A. & Dereli, T. Classification of Data Streams with Concept Drift: A Matched-Pair Comparative Study, ICAII4.0 - International Conference on Artificial Intelligence towards Industry 4.0, Nov 15-17, Hatay/Turkey.

A2. Babüroğlu, E.S., Durmuşoğlu, A. & Dereli, T. A bibliometric analysis of concept drift in streaming data from 1980 to 2020.1th International Symposium on Intelligent Manufacturing and Service Systems (IMSS'21), Sakarya, Türkiye, ss. 185-194, 27-29 Mayıs 2021.

A3. Babüroğlu, E.S., Durmuşoğlu, A. & Dereli, T. Handling Context-Aware Data Streams with Drifts, The International Scientific Conference on Humanities, Applied Sciences and Artificial Intelligence in Manchester, 9-11 February, Manchester/UK, ss. 24-35.

A4. Babüroğlu, E.S., Durmuşoğlu, A. & Dereli, T., User Interest Drift Detection Methods, and Future Directions, The International Scientific Conference on Humanities, Applied Sciences and Artificial Intelligence in Manchester, 9-11 February, Manchester/UK, ss. 66-75.

Son iki yılda verdiğim lisans dersleri

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2025-26	İlkbahar	IE 178- Technical and Professional Composition	3		118
		IE 218- Database Management	3		142
		IE 368- Introduction to Data Mining	3		51

H. Atıflar

H1. Alan Endeksli Ulusal-Uluslararası Makalelerde

1. Impacts of climate factors and human activities on NDVI change in China / Ecological Informatics.
2. Spatio-temporal distribution of NDVI and its influencing factors in China / Journal of Hydrology.
3. Unsupervised online anomaly detection in Software Defined Network environments / Expert Systems with Applications.
4. A comprehensive analysis of concept drift locality in data streams / Knowledge-Based Systems.
5. Augur: a step towards realistic drift detection in production ML systems / 2022 IEEE/ACM 1st International Workshop on Software Engineering for Responsible Artificial Intelligence (SE4RAI).
6. A case study of batch and incremental recommender systems in supermarket data under concept drifts and cold start / Expert Systems with Applications.
7. Concept drift modeling for robust autonomous vehicle control systems in time-varying traffic environments / Expert Systems with Applications.

8. Multidimensional analysis of NDVI dynamics in response to climate and land use/land cover change in Northwest Algeria / Journal of Hydrology and Hydromechanics.
9. CatSight, a direct path to proper multi-variate time series change detection: perceiving a concept drift through common spatial pattern / International Journal of Machine Learning and Cybernetics.
10. Concept drift from 1980 to 2020: a comprehensive bibliometric analysis with future research insight / Evolving Systems.
11. Benchmarking Change Detector Algorithms from Different Concept Drift Perspectives / Future Internet.
12. Incremental specialized and specialized-generalized matrix factorization models based on adaptive learning rate optimizers / Neurocomputing.
13. Impacts of Intensified Human Activity on Vegetation Dynamics in the Qinba Mountains, China / Forests.
14. An Intelligent Edge Dual-Structure Ensemble Method for Data Stream Detection and Releasing / IEEE Internet of Things Journal.
15. Incremental learning fault detection for UAVs in non-stationary wind environments / Measurement.
16. Real-time wildfire detection with semantic explanations / Expert Systems with Applications.
17. Time-Aware Explainable Recommendation via Updating Enabled Online Prediction / Entropy.
18. Concept drift detection based on the equilibrium consistency index / Knowledge-Based Systems.
19. Scientific mapping and bibliometric analysis of research advancements in underwater image enhancement/ Journal of Visual Communication and Image Representation.
20. Cross-Version Software Defect Prediction Considering Concept Drift and Chronological Splitting / Symmetry.
21. Leveraging Safe and Secure AI for Predictive Maintenance of Mechanical Devices Using Incremental Learning and Drift Detection / Computers, Materials & Continua