

## Asst. Prof. ÇAĞRI TORAMAN

### Personal Information

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### International Researcher IDs

ScholarID: 3iEvqKoAAAAJ

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Publons / Web Of Science ResearcherID: AAU-2704-2021

ScopusID: 46061415800

Yoksis Researcher ID: 409738

### Education Information

Post Doctorate, University of Central Florida, United States Of America 2018 - 2019

Doctorate, Ihsan Dogramaci Bilkent University, Computer Engineering, Turkey 2011 - 2017

Doctorate, Ihsan Dogramaci Bilkent University, Turkey 2011 - 2017

Postgraduate, Ihsan Dogramaci Bilkent University, Turkey 2009 - 2011

Undergraduate, Ihsan Dogramaci Bilkent University, Turkey 2005 - 2009

### Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Natural Language Processing, Human Computer Interaction, Text/Document Processing, Neural Networks

### Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Computer Engineering, 2024 - Continues

### Courses

Applied Natural Language Processing, Postgraduate, 2024 - 2025

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Constructing ensembles for hate speech detection**  
Kucukkaya I. E., TORAMAN Ç.  
NATURAL LANGUAGE PROCESSING, 2024 (SCI-Expanded)
- II. **The effect of gender bias on hate speech detection**  
Sahinuc F., Yilmaz E. H., Toraman Ç., Koc A.  
SIGNAL IMAGE AND VIDEO PROCESSING, vol.17, no.4, pp.1591-1597, 2023 (SCI-Expanded)
- III. **Impact of Tokenization on Language Models: An Analysis for Turkish**

Toraman Ç., Yilmaz E. H., Sahinuc F., Ozcelik O.

ACM TRANSACTIONS ON ASIAN AND LOW-RESOURCE LANGUAGE INFORMATION PROCESSING, vol.22, no.4, 2023 (SCI-Expanded)

**IV. Named entity recognition in Turkish: A comparative study with detailed error analysis**

Ozcelik O., Toraman Ç.

INFORMATION PROCESSING & MANAGEMENT, vol.59, no.6, 2022 (SCI-Expanded)

**V. Event-related microblog retrieval in Turkish**

Toraman Ç.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.30, no.3, pp.1067-1083, 2022 (SCI-Expanded)

**VI. Discovering Story Chains: A Framework Based on Zigzagged Search and News Actors**

Toraman Ç., Can F.

JOURNAL OF THE ASSOCIATION FOR INFORMATION SCIENCE AND TECHNOLOGY, vol.68, no.12, pp.2795-2808, 2017 (SCI-Expanded)

**VII. A front-page news-selection algorithm based on topic modelling using raw text**

Toraman Ç., Can F.

JOURNAL OF INFORMATION SCIENCE, vol.41, no.5, pp.676-685, 2015 (SCI-Expanded)

## Articles Published in Other Journals

**I. Understanding social engagements: A comparative analysis of user and text features in Twitter**

Toraman Ç., Sahinuc F., Yilmaz E. H., Akkaya I. B.

SOCIAL NETWORK ANALYSIS AND MINING, vol.12, no.1, 2022 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

**I. MiDe22: An Annotated Multi-Event Tweet Dataset for Misinformation Detection**

TORAMAN Ç., Ozcelik O., Şahinuç F., Can F.

Joint 30th International Conference on Computational Linguistics and 14th International Conference on Language Resources and Evaluation, LREC-COLING 2024, Hybrid, Torino, Italy, 20 - 25 May 2024, pp.11283-11295

**II. PejorativITy: Disambiguating Pejorative Epithets to Improve Misogyny Detection in Italian Tweets**

Muti A., Ruggeri F., TORAMAN Ç., Musetti L., Algherini S., Ronchi S., Saretto G., Zapparoli C., Barrón-Cedeño A.

Joint 30th International Conference on Computational Linguistics and 14th International Conference on Language Resources and Evaluation, LREC-COLING 2024, Hybrid, Torino, Italy, 20 - 25 May 2024, pp.12700-12711

**III. JI-Hate: An Annotated Dataset for Joint Learning of Hate Speech and Target Detection**

Buyukdemirci K., Kucukkaya I. E., Olmez E., TORAMAN Ç.

Joint 30th International Conference on Computational Linguistics and 14th International Conference on Language Resources and Evaluation, LREC-COLING 2024, Hybrid, Torino, Italy, 20 - 25 May 2024, pp.9543-9553

**IV. ARC-NLP at ClimateActivism 2024: Stance and Hate Speech Detection by Generative and Encoder Models Optimized with Tweet-Specific Elements**

Kaya A. K., Ozcelik O., Toraman Ç.

7th Workshop on Challenges and Applications of Automated Extraction of Socio-Political Events from Text, CASE 2024, St. Julian's, Malta, 22 March 2024, pp.111-117

**V. Zero and Few-shot Hate Speech Detection in Social Media Messages Related to Earthquake Disaster**

Sahin U., Kucukkaya I. E., Ozcelik O., Toraman Ç.

31st IEEE Conference on Signal Processing and Communications Applications (SIU), İstanbul, Turkey, 5 - 08 July 2023

**VI. ARC-NLP at Multimodal Hate Speech Event Detection 2023: Multimodal Methods Boosted by Ensemble Learning, Syntactical and Entity Features**

Sahin U., Kucukkaya I. E., Ozcelik O., Toraman Ç.

6th Workshop on Challenges and Applications of Automated Extraction of Socio-Political Events from Text, CASE 2023, Varna, Bulgaria, 07 September 2023, pp.71-78

VII. **SiMiD: Similarity-based Misinformation Detection via Communities on Social Media Posts**

Ozcelik O., Toraman Ç., Can F.

10th International Conference on Social Networks Analysis, Management and Security, SNAMS 2023, Abu Dhabi, United Arab Emirates, 21 - 24 November 2023

VIII. **ARC-NLP at PAN 2023: Transition-Focused Natural Language Inference for Writing Style Detection**

Kucukkaya I. E., Sahin U., Toraman Ç.

24th Working Notes of the Conference and Labs of the Evaluation Forum, CLEF-WN 2023, Thessaloniki, Greece, 18 - 21 September 2023, vol.3497, pp.2659-2668

IX. **ARC-NLP at PAN 2023: Hierarchical Long Text Classification for Trigger Detection**

Sahin U., Kucukkaya I. E., Toraman Ç.

24th Working Notes of the Conference and Labs of the Evaluation Forum, CLEF-WN 2023, Thessaloniki, Greece, 18 - 21 September 2023, vol.3497, pp.2747-2757

X. **D2U: Distance-to-Uniform Learning for Out-of-Scope Detection**

Yilmaz E. H., Toraman Ç.

Conference of the North-American-Chapter-of-the-Association-for-Computational-Linguistics (NAAACL) - Human Language Technologies, Washington, United States Of America, 10 - 15 July 2022, pp.2093-2108

XI. **ARC-NLP at CASE 2022 Task 1: Ensemble Learning for Multilingual Protest Event Detection**

Sahin U., Ozcelik O., Kucukkaya I. E., Toraman Ç.

5th Workshop on Challenges and Applications of Automated Extraction of Socio-Political Events from Text, CASE 2022, Abu Dhabi, United Arab Emirates, 7 - 08 December 2022, pp.175-183

XII. **BlackLivesMatter 2020: An Analysis of Deleted and Suspended Users in Twitter**

Toraman Ç., Sahinuc F., Yilmaz E. H.

14th ACM Web Science Conference (WebSci), Barcelona, Spain, 26 - 29 June 2022, pp.290-295

XIII. **Large-Scale Hate Speech Detection with Cross-Domain Transfer**

Toraman Ç., Sahinuc F., Yilmaz E. H.

13th International Conference on Language Resources and Evaluation (LREC), Marseille, France, 20 - 25 June 2022, pp.2215-2225

XIV. **ARC-NLP at CheckThat! 2022: Contradiction for Harmful Tweet Detection**

Toraman Ç., Ozcelik O., Şahinuc F., Sahin U.

2022 Conference and Labs of the Evaluation Forum, CLEF 2022, Bologna, Italy, 5 - 08 September 2022, vol.3180, pp.722-739

XV. **Slot Filling for Voice Assistants Sesli Asistanlarda Parametre Etiketleme**

Ozcelik O., Yilmaz E. H., Sahinuc F., Toraman Ç.

30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022

XVI. **Topic Detection based on Deep Learning Language Model in Turkish Microblogs**

Sahinuc F., Toraman Ç., Koc A.

29th IEEE Conference on Signal Processing and Communications Applications (SIU), ELECTR NETWORK, 9 - 11 June 2021

XVII. **Tweet Length Matters: A Comparative Analysis on Topic Detection in Microblogs**

Şahinuc F., Toraman Ç.

43rd European Conference on Information Retrieval, ECIR 2021, Virtual, Online, 28 March - 01 April 2021, vol.12657 LNCS, pp.471-478

XVIII. **Intent Classification based on Deep Learning Language Model in Turkish Dialog Systems**

Yilmaz E. H., Toraman Ç.

29th IEEE Conference on Signal Processing and Communications Applications (SIU), ELECTR NETWORK, 9 - 11 June 2021

XIX. **KLOOS: KL Divergence-based Out-of-Scope Intent Detection in Human-to-Machine Conversations**

Yilmaz E. H., Toraman Ç.

43rd International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), ELECTRONETWORK, 25 - 30 July 2020, pp.2105-2108

- XX. **CrossSimON: A Novel Probabilistic Approach to Cross-Platform Online Social Network Simulation**  
Liu J., Chung W., Huang Y., Toraman Ç.  
17th IEEE Annual International Conference on Intelligence and Security Informatics (ISI), Shenzhen, China, 1 - 03 July 2019, pp.7-12
- XXI. **A Deep Learning Approach to Modeling Temporal Social Networks on Reddit**  
Chung W., Toraman Ç., Huang Y., Vora M., Liu J.  
17th IEEE Annual International Conference on Intelligence and Security Informatics (ISI), Shenzhen, China, 1 - 03 July 2019, pp.68-73
- XXII. **SimON-Feedback: An Iterative Algorithm for Performance Tuning in Online Social Simulation**  
Vora M., Chung W., Toraman Ç., Huang Y.  
17th IEEE Annual International Conference on Intelligence and Security Informatics (ISI), Shenzhen, China, 1 - 03 July 2019, pp.13-17
- XXIII. **Squeezing the ensemble pruning: Faster and more accurate categorization for news portals**  
Toraman Ç., Can F.  
34th European Conference on Information Retrieval, ECIR 2012, Barcelona, Spain, 1 - 05 April 2012, vol.7224 LNCS, pp.508-511
- XXIV. **Developing a text categorization template for Turkish news portals**  
Toraman Ç., Can F., Koçberber S.  
2011 International Symposium on INnovations in Intelligent Systems and Applications, INISTA 2011, Istanbul-Kadikoy, Turkey, 15 - 18 June 2011, pp.379-383
- XXV. **Ensemble Pruning for Text Categorization Based on Data Partitioning**  
Toraman Ç., Can F.  
7th Asia Information Retrieval Societies Conference (AIRS 2011), Dubai, United Arab Emirates, 18 - 20 December 2011, pp.352-361

## Scientific Research / Working Group Memberships

Applied Natural Language Processing Group, Middle East Technical University, Turkey, <https://nlp.ceng.metu.edu.tr>,  
2024 - Continues

## Metrics

Publication: 33

Citation (WoS): 51

Citation (Scopus): 133

H-Index (WoS): 5

H-Index (Scopus): 7