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Personal Information

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International Researcher IDs

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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