Asst. Prof. ULYA BAYRAM

Personal Information

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International Researcher IDs
ScholarID: xPn709cAAAAJ
ORCID: 0000-0002-8150-4053
Publons / Web Of Science ResearcherID: U-7459-2019
ScopusID: 57195324891
Yoksis Researcher ID: 333819

Education Information

Doctorate, University of Cincinnati, College of Engineering and Applied Science, Computer Science and Engineering, United States Of America 2013 - 2019

Doctorate, University of Miami, College of Arts and Sciences, Computer Science (transferred to Uni. of Cincinnati), United States Of America 2013 - 2014

Postgraduate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2011 - 2013

Undergraduate, Universidad Autonoma de Madrid, Faculty of Engineering, ELECTRICAL AND ELECTRONICS ENGINEERING (Erasmus Exchange), Spain 2008 - 2009

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2005 - 2009

Foreign Languages

English, C2 Mastery
Spanish, B1 Intermediate

Certificates, Courses and Trainings

IT, IBM Neuro-Symbolic AI Summer School, IBM, 2022
IT, Deep Learning, Neuromatch Academy, 2021
Other, Data or Specimens Only Research, The Collaborative Institutional Training Initiative (CITI Program), 2021
Vocational Training, Net-COVID Workshop: Understanding and Exploring Network Epidemiology in the Time of Coronavirus, University of Maryland, 2020
Vocational Course, Introduction to Dynamical Systems and Chaos, Santa Fe Institute, 2016
Vocational Training, Complex Systems Summer School 2016, Santa Fe Institute, 2016
Vocational Training, Formal Techniques Summer School, SRI International, 2014

Research Areas

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

Academic Titles / Tasks

Assistant Professor, Canakkale Onsekiz Mart University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2021 - Continues

Researcher, University of Cincinnati, College of Engineering and Applied Science, Computer Science and Engineering, 2014 - 2016

Researcher, University of Miami, College of Arts and Sciences, Computer Science, 2013 - 2014

Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Canakkale Onsekiz Mart University, insan ve Toplum Bilimleri Fakültesi---------------------------, Data Analytics Application and Research Center, 2021 - Continues

Courses

Makine Öğrenmesi, Postgraduate, 2023 - 2024
Derin Öğrenme, Postgraduate, 2023 - 2024
Scientific Research and Ethics, Postgraduate, 2023 - 2024
Natural Language Processing Methods, Postgraduate, 2023 - 2024
Artificial Neural Networks, Undergraduate, 2022 - 2023, 2021 - 2022
Fundamentals of Machine Learning for Medical Domain, Undergraduate, 2021 - 2022
Natural Language Processing, Postgraduate, 2021 - 2022

Jury Memberships

Doctorate, Doctorate, Çanakkale Onsekiz Mart Üniversitesi, June, 2024
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Çanakkale Onsekiz Mart Üniversitesi, December, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Çanakkale Onsekiz Mart Üniversitesi, June, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

I. **The unknown knowns: a graph-based approach for temporal COVID-19 literature mining**
Bayram U., Roy R., Assalil A., Benhiba L.
ONLINE INFORMATION REVIEW, vol.45, no.4, pp.687-708, 2021 (SCI-Expanded)

II. **A Machine Learning Approach to Identifying Changes in Suicidal Language**
Pestian J., Santel D., Sorter M., Bayram U., Connolly B., Glauser T., Delbello M., Tamang S., Cohen K.
SUICIDE AND LIFE-THREATENING BEHAVIOR, vol.50, pp.939-947, 2020 (SSCI)

III. **A nonparametric Bayesian method of translating machine learning scores to probabilities in clinical decision support**
Connolly B., Cohen K. B., Santel D., Bayram U., Pestian J.
BMC BIOINFORMATICS, vol.18, 2017 (SCI-Expanded)

Articles Published in Other Journals

I. **Revealing the Reflections of the Pandemic by Investigating COVID-19 Related News Articles Using Machine Learning and Network Analysis**
Bayram U.
Journal of Information Technologies, vol.15, no.2, pp.209-220, 2022 (Peer-Reviewed Journal)

II. **Toward Suicidal Ideation Detection with Lexical Network Features and Machine Learning**
Bayram U., Lee W., Santel D., Minai A., Clark P., Glauser T., Pestian J.
Northeast Journal of Complex Systems (NEJCS), vol.4, pp.1-17, 2022 (Peer-Reviewed Journal)

III. **Characterizing Data Dependence Constraints for Dynamic Reliability Using n-Queens Attack Domains**
Wd Rozier E., Y Rozier K., Bayram U.
Leibniz Transactions on Embedded Systems, vol.4, no.1, pp.5-26, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Ch. 5: Applying Machine Learning to Online Data? Beware! Computational Social Science Requires Care.**
Bayram U.
in: Opportunities and Challenges for Computational Social Science Methods, Enes Abanoz, Editor, IGI Global, Pennsylvania, pp.100-125, 2022

Refereed Congress / Symposium Publications in Proceedings

I. **Predicting ICU death and readmission risks using publicly available data**
Bayram U., Roy R.
Biomedical Engineering Society 2023 Annual Meeting, Oregon, United States Of America, 13 October 2023, pp.1

II. **Emotionally-Informed Models for Detecting Moments of Change and Suicide Risk Levels in Longitudinal Social Media Data**
Bayram U., Benhiba L.
North American Chapter of the Association for Computational Linguistics (NAACL) Proceedings of the Eighth Workshop on Computational Linguistics and Clinical Psychology , Washington, United States Of America, 10 - 15 July 2022, pp.219-225

III. **Analyzing the Effects of the COVID-19 on News Articles with Natural Language Processing**
Bayram U., Taraktaş B.
ULUSLARARASI KÜRESAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ 2021, Ankara, Turkey, 30 - 31 October 2021, pp.81-89

IV. **Determining a Person's Suicide Risk by Voting on the Short-Term History of Tweets for the CLPsych 2021 Shared Task**
Bayram U., Benhiba L.
CLPsych | NAACL, Mexico City, Mexico, 06 June 2021, pp.81-86

V. **What's in a Word? Detecting Partisan Affiliation from Word Use in Congressional Speeches**
Bayram U., Pestian J., Santel D., Minai A. A.
2019 International Joint Conference on Neural Networks, IJCNN 2019, Budapest, Hungary, 14 - 19 July 2019

VI. **A lexical network approach for identifying suicidal ideation in clinical interview transcripts**
Bayram U., A. Minai A., Pestian J.
International Conference on Complex Systems, Massachusetts, United States Of America, 22 July 2018, pp.165-172

VII. **Improving Reliability with Dynamic Syndrome Allocation in Intelligent Software Defined Data Centers**
Bayram U., Rozier E. W. D., Divine D., Zhou P.

45th Annual IEEE/IFIP International Conference on Dependable Systems and Networks, Rio de Janeiro, Brazil, 22 - 25 June 2015, pp.219-230

VIII. **Characterizing Data Dependence Constraints for Dynamic Reliability Using N-Queens Attack Domains**
Bayram U., Rozier K. Y., Rozier E. W. D.
12th International Conference on Quantitative Evaluation of Systems (QEST), Madrid, Spain, 1 - 03 September 2015, vol.9259, pp.211-227

IX. **Comparison of Cuboid and Tracklet Features for Action Recognition on Surveillance Videos**
Bayram U., Ulusoy İ., Cicekli N. K.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013

X. **A FRAMEWORK FOR DETECTING COMPLEX EVENTS IN SURVEILLANCE VIDEOS**
Onal I., Kardas K., Rezaeitabar Y., Bayram U., Bal M., Ulusoy İ., Cicekli N. K.
IEEE International Conference on Multimedia and Expo Workshops (ICMEW), San-Jose, Costa Rica, 15 - 19 July 2013

XI. **Unsupervised land use - land cover classification for multispectral images**
Bayram U., Can G., Yüksel B., Düzgün Ş., Yalabık N.
2011 IEEE 19th Signal Processing and Communications Applications Conference (SIU), Antalya, Turkey, 20 - 22 April 2011, pp.574-577

XII. **Evaluation of Textural Features for Multispectral Images**
Bayram U., Can G., Duzgun S., Yalabik N.
Conference on Image and Signal Processing for Remote Sensing XVII, Prague, Czech Republic, 19 - 21 September 2011, vol.8180

XIII. **Braille alfabesi ile yazılmış kabartma yazının bilgisayar ortamına aktarılarak okunabilir metin haline getirilmesi**
Bayram U., Bayram U.
XII. Akademik Bilişim Konferansı, Muğla, Turkey, 10 - 12 February 2010, pp.505-508

Supported Projects

Bayram U., Yeğnidemir E., TUBITAK Project, Türkiye'de Yapay Zeka Tabanlı Uzun Süreli Meteoroloji Tahmini: Bir Küresel İklim Değişimi Modellemesi, 2023 - 2024
Bayram U., Dzafic A., TUBITAK Project, SHIELD: Bir "Kadına Şiddete Karşı Dur" Yapay Zeka Modeli, 2023 - 2024
Bayram U., Sarı S., TUBITAK Project, Gerçekler Arasında Gizlenenlerin Peşinde: Yapay Zeka ile Türkçe Sosyal Medya Verilerinde Komplo Teorilerinin Tespiti, 2023 - 2024
Bayram U., Roy R., Project Supported by Higher Education Institutions, 2021 - 2022

Memberships / Tasks in Scientific Organizations

WiDS (Women in Data Science), Country Representative, 2023 - Continues, United States Of America

Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Canakkale Onsekiz Mart University, Turkey, June 2023
SCIENTIFIC REPORTS, SCI Journal, July 2022
PITUITARY, SCI Journal, May 2022
IGI Global, Chapter Scientific / Professional Book Published by Other Publishers, July 2021
Heliyon, Journal Indexed in ESCI, July 2021
IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, Journal Indexed in SCI-E, February 2021

IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, Journal Indexed in SCI-E, January 2021
Heliyon, Journal Indexed in ESCI, May 2020
IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS, Journal Indexed in SCI-E, April 2019
Biomedical Informatics Insights, Other journals, October 2018

Metrics

Publication: 20
Citation (WoS): 21
Citation (Scopus): 64
H-Index (WoS): 3
H-Index (Scopus): 5

Congress and Symposium Activities

Embodied Intelligence 2023 (EI'23), Attendee, Cambridge, England, 2023
International Conference on Machine Learning, Attendee, Montreal, Canada, 2022
The Annual Meeting of the North American Chapter of the Association for Computational Linguistics (NAACL), Attendee, Washington, United States Of America, 2022
The Fifth Northeast Regional Conference on Complex Systems, Attendee, New York, United States Of America, 2022
NAACL 2021 Annual Conference of the North American Chapter of Computational Linguistics, Attendee, Mexico City, Mexico, 2021

Scholarships

Top 100 scholarship, Other Government Agencies, 2005 - 2009
Full scholarship, University, 2005 - 2009

Awards

Bayram U., Sarı S., Datathon2023 First Place, Btk Akademi, Google, Girişimcilik Vakfı, September 2023
Bayram U., Ruiz M., Taraktaş B., Dennehy T., Sajjadi S., Shadmangohar M., Best Project Award 2nd Place, Net-Covid Workshop, University Of Maryland, May 2020

Non Academic Experience

Business Establishment Private, Corporate Employment
Hospital, Cincinnati Children's Hospital Medical Center
Business Establishment Private, Corporate Employment