

Ali Mert Ertuğrul

CONTACT INFORMATION	Information Science Building University of Pittsburgh 135 North Bellefield Ave Pittsburgh, PA 15260	<i>Phone:</i> +1(412)2730009 <i>E-mail:</i> mrtertugrul@gmail.com https://mertugrul.github.io/
RESEARCH INTERESTS	Data science, machine learning, spatio-temporal modeling, event analytics	
PERSONAL INFORMATION	Place and date of birth: Konya, 30/06/1988 Nationality: Turkish Gender: Male Languages: English (Proficient), Turkish (Native)	
EDUCATION	Middle East Technical University (METU) , Ankara, Turkey Ph.D., Department of Information Systems, December 2019 M.Sc., Department of Information Systems, September 2015 B.Sc., Computer Engineering Department, June 2011	
ACADEMIC AND WORK EXPERIENCE	Postdoctoral Associate PICSO Lab School of Computing and Information, University of Pittsburgh	01/2020 - current
	Visiting Scholar PICSO Lab School of Computing and Information, University of Pittsburgh	09/2017 - 12/2019
	Research and Teaching Assistant Department of Information Systems, Middle East Technical University	12/2013 - 11/2017
	Visiting Ph.D. Student Web Information Systems Group, Delft University of Technology	07/2016 - 09/2016
	Researcher and Analyst Bilgi Grubu, Ankara, Turkey	11/2014 - 12/2015
	R&D Software Engineer Arcelik R&D METU-Technopolis, Ankara, Turkey	10/2011 - 09/2013
	Intern TAI - Turkish Aerospace Industries, Inc., Ankara, Turkey	07/2009 - 08/2009
HONORS & AWARDS	High honor graduation, Ph.D. in Department of Information Systems, METU Course Performance Award, Department of Information Systems, METU High honor graduation, M.Sc. in Department of Information Systems, METU Ranked 942 nd among ~2M examinees in Turkish University Entrance Examination	2019 2017 2015 2005
PRESS	AI can predict opioid overdoses from crime and socioeconomic data, [VentureBeat] AI Offers Insights on the Opioid Crisis, [Seeflection]	05/2019 05/2019

PROJECTS	Linking Online Attention to Measurable Actions. Air Force Office of Scientific Research (AFOSR)	01/2020 - current
	TRIBAL: A Tripartite Model for Group Bias Analytics. DARPA Understanding Group Biases (UGB) Disruptioneering Program	07/2018 - 05/2019
	Software Agility Assessment Reference Model. The Scientific and Technological Research Council of Turkey (TUBITAK) (Project no: 113E528)	04/2014 - 04/2016
CERTIFICATES	<p>Course Certificate of online course Neural Networks and Deep Learning by Andrew Ng.</p> <p>Course Certificate of online course Machine Learning by Andrew Ng.</p> <p>Course Certificate of online course Process Mining: Data science in Action by Professor dr.ir. Wil van der Aalst.</p> <p>CCFL - Certified COSMIC at Foundation Level by Common Software Measurement International Consortium</p>	
COMPUTER SKILLS AND ABILITIES	Programming	
	Python, Java, C, C++, Haskell, Scheme	
	Analytics	
	Tensorflow, PyTorch, R, Matlab, Keras, Scikit-learn, Pajek, Weka	
	Web Development	
	JavaScript, PHP, ASP, ASP.NET, HTML, CSS, JQuery, JointJS, XML, JSON	
	Database	
	MySql, PostgreSQL, MSSql, SQL	
JOURNAL PUBLICATIONS	[1] A. M. Ertugrul , Y.-R. Lin, W.-T. Chung, M. Yan, A. Li, Activism via attention: interpretable spatiotemporal learning to forecast protest activities, <i>EPJ Data Science</i> , 2019.	
CONFERENCE PUBLICATIONS	[2] M. Yan, Y.-R. Lin, R. Hwa, A. M. Ertugrul , M. Guo, W.-T. Chung, MimicProp: Learning to Incorporate Lexicon Knowledge into Distributed Word Representation for Social Media Analysis, <i>International AAAI Conference on Web and Social Media (ICWSM)</i> , 2020.	
	[3] A. M. Ertugrul , Y.-R. Lin, T. Taskaya-Temizel, CASTNet: Community-Attentive Spatio-Temporal Networks for Opioid Overdose Forecasting, <i>European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD)</i> , 2019.	
	[4] W.-T. Chung, Y.-R. Lin, A. Li, A. M. Ertugrul , M. Yan, March with and without Feet: The Talking about Protests and Beyond, <i>10th International Conference on Social Informatics (SocInfo)</i> , 2018.	
	[5] X. Teng, M. Yan, A. M. Ertugrul , Y.-R. Lin, Deep into Hypersphere: Robust and Unsupervised Anomaly Discovery in Dynamic Networks, <i>27th International Joint Conference on Artificial Intelligence (IJCAI)</i> , 2018.	

- [6] **A.M. Ertugrul**, Y.-R. Lin, C. Mair, T. Taskaya Temizel, Forecasting Heroin Overdose Occurrences from Crime Incidents, *11th International Conference on Social Computing, Behavioral-Cultural Modeling, & Prediction and Behavior Representation in Modeling and Simulation (SBP-BRiMS) - Opioid Challenge*, 2018.
- [7] R. Napoli, **A. M. Ertugrul**, A. Bozzon, M. Brambilla, A User Modeling Pipeline for Studying Polarized Political Events in Social Media, *KDWEB Workshop 2018, co-located with ICWE 2018*, 2018.
- [8] **A.M. Ertugrul**, P. Karagoz. Movie Genre Classification from Plot Summaries using Bidirectional LSTM. *IEEE International Conference on Semantic Computing (ICSC)*, 2018.
- [9] **A.M. Ertugrul**, B. Velioglu, P. Karagoz. Word Embedding based Event Detection on Social Media. *12th International Conference on Hybrid Artificial Intelligence Conference (HAIS)*, 2017.
- [10] **A.M. Ertugrul**, I. Onal, C. Acarturk. Does the Strength of Sentiment Matter? A Regression based Approach on Turkish Social Media, *22nd International Conference on Natural Language & Information Systems (NLDB)*, 2017.
- [11] **A.M. Ertugrul**, O. Demirors. A Method for Modeling Business Processes in a Role-based and Decentralized Way, *8th International Conference on Subject-Oriented Business Process Management (S-BPM)*, 2016.
- [12] **A.M. Ertugrul**, O. Demirors. An exploratory study on role-based collaborative business process modeling approaches, *7th International Conference on Subject-Oriented Business Process Management (S-BPM)*, 2015.
- [13] **A.M. Ertugrul**, G. Yilmaz, M. Salmanoglu, O. Demirors. The Effect of Highlighting Error Categories in FSM Training on the Accuracy of Measurement, *Joint Conference of International Workshop on Software Measurement and the International Conference on Software Process and Product Measurement (IWSM-MENSURA)*, 2014.
- [14] **A.M. Ertugrul**, I. Onal. RemindMe: An Enhanced Mobile Location-Based Reminder Application, *2nd International Conference on Future Internet of Things and Cloud (Fi-Cloud)*, 2014.
- [15] I. Onal, **A.M. Ertugrul**, R. Cakici. Effect of Using Regression on Class Confidence Scores in Sentiment Analysis of Twitter Data, *5th ACL Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA)*, 2014.
- NATIONAL
CONFERENCE
PUBLICATIONS
- [16] I. Onal, **A.M. Ertugrul**. Effect of using regression in sentiment analysis. *22nd Signal Processing and Communications Applications Conference (SIU)*, 2014. (in Turkish).
- [17] O.R. Yurum, O.O. Top, **A.M. Ertugrul**, O. Demirors. Yazılım Süreç Değerlendirme Araçlarının Karşılaştırılması: Bir Çoklu Durum Çalışması. *8th National Software Engineering Symposium (UYMS)*, 2014. (in Turkish).
- [18] **A.M. Ertugrul**, I. Onal. Çeşitli Konum Etiketleme Opsiyonlarıyla Zenginleştirilmiş Yeni Bir Konum Bazlı Hatırlatma Uygulaması, *8th National Software Engineering Symposium (UYMS)*, 2014. (in Turkish).
- THESES
- [19] **A.M. Ertugrul**. Interpretable Spatio-Temporal Networks for Modeling and Forecasting Societal Events. *Ph.D. Thesis, Department of Information Systems, Middle East Technical University*, 2019.
- [20] **A.M. Ertugrul**. ROADMAP: A Novel Method for Role-based and Decentralized Process Modeling. *M.Sc. Thesis, Department of Information Systems, Middle East Technical University*, 2015.