Seventeenth International AAAI Conference on Web and Social Media (ICWSM-23)

Limassol, Cyprus
5 – 8 June 2023

Volume 1 of 2

ISBN: 978-1-7138-7676-2

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2023) by Association for the Advancement of Artificial Intelligence
All rights reserved.

Printed with permission by Curran Associates, Inc. (2023)

For permission requests, please contact Association for the Advancement of Artificial Intelligence at the address below.

Association for the Advancement of Artificial Intelligence
2275 East Bayshore Road
Suite 160
Palo Alto, California 94303
USA

Phone: 1-650-328-3123
Fax: 1-650-321-4457

https://aaai.org/Press/press.php

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

VOLUME 1

FULL PAPERS

How Do US Congress Members Advertise Climate Change: An Analysis of Ads Run on Meta's Platforms 2
Laurenz Aisenpreis, Gustav Gyrst, Vedran Sekara

The Pursuit of Peer Support for Opioid Use Recovery on Reddit 12
Duilio Balsamo, Paolo Bajardi, Gianmarco De Francisci Morales, Corrado Monti, Rossano Schifanella

Exposure to Marginally Abusive Content on Twitter 24
Jack Bandy, Tomo Lazovich

Finding Qs: Profiling QAnon Supporters on Parler 34
Dominik Bär, Nicolas Pröllochs, Stefan Feuerriegel

Predicting Future Location Categories of Users in a Large Social Platform 47
Raiyan Abdul Baten, Yozen Liu, Heinrich Peters, Francesco Barbieri, Neil Shah, Leonardo Neves, Maarten W. Bos

Followback Clusters, Satellite Audiences, and Bridge Nodes: Coengagement Networks for the 2020 US Election 59
Andrew Beers, Joseph S. Schafer, Ian Kennedy, Morgan Wack, Emma S. Spiro, Kate Starbird

Measuring the Ideology of Audiences for Web Links and Domains Using Differentially Private Engagement Data 72
Cody Buntain, Richard Bonneau, Jonathan Nagler, Joshua A. Tucker

RTANet: Recommendation Target-Aware Network Embedding 84
Qimeng Cao, Qing Yin, Yunya Song, Zhihua Wang, Yujun Chen, Richard Yi Da Xu, Xian Yang

Recipe Networks and the Principles of Healthy Food on the Web 95
Charalampos Chelmis, Bedirhan Gergin

Partisan US News Media Representations of Syrian Refugees 103
Keyu Chen, Marzieh Babaeianjelodar, Yiwen Shi, Kamila Janmohamed, Rupak Sarkar, Ingmar Weber, Thomas Davidson, Munmun De Choudhury, Jonathan Huang, Shweta Yadav, Ashiqur KhudaBukhsh, Chris T Bauch, Preslav Nakov, Orestis Papakyriakopoulos, Koustuv Saha, Kaveh Khoshnood, Navin Kumar

DiPPS: Differentially Private Propensity Scores for Bias Correction 114
Liangwei Chen, Valentin Hartmann, Robert West

Getting Back on Track: Understanding COVID-19 Impact on Urban Mobility and Segregation with Location Service Data 126
Lin Chen, Fengli Xu, Qianyue Hao, Pan Hui, Yong Li

What Are You Anxious About? Examining Subjects of Anxiety during the COVID-19 Pandemic 137
Lucia L. Chen, Steven R. Wilson, Sophie Lohmann, Daniela V. Negraia

Analyzing the Engagement of Social Relationships during Life Event Shocks in Social Media 149
Minje Choi, David Jurgens, Daniel M. Romero

Same Words, Different Meanings: Semantic Polarization in Broadcast Media Language Forecasts Polarity in Online Public Discourse 161
Xiaohan Ding, Michael Horning, Eugenia H. Rho

Catch Me If You Can: Deceiving Stance Detection and Geotagging Models to Protect Privacy of Individuals on Twitter 173
Dilara Dogan, Bahadir Altun, Muhammed Said Zengin, Mucahid Kutlu, Tamer Elsayed

We Are in This Together: Quantifying Community Subjective Wellbeing and Resilience 185
MeiXing Dong, Ruixuan Sun, Laura Biester, Rada Mihalcea

Non-polar Opposites: Analyzing the Relationship between Echo Chambers and Hostile Intergroup Interactions on Reddit 197
Alexandros Efstratiou, Jeremy Blackburn, Tristan Caulfield, Gianluca Stringhini, Savvas Zannettou, Emiliano De Cristofaro

Misleading Repurposing on Twitter 209
Tuğrulcan Elmas, Rebekah Overdorf, Karl Aberer

Scope of Pre-trained Language Models for Detecting Conflicting Health Information 221
Joseph Gatto, Madhusudan Basak, Sarah Masud Preum

Author as Character and Narrator: Deconstructing Personal Narratives from the r/AmITheAsshole Reddit Community 233
Salvatore Giorgi, Ke Zhao, Alexander H. Feng, Lara J. Martin

Google the Gatekeeper: How Search Components Affect Clicks and Attention 245
Jeffrey Gleason, Desheng Hu, Ronald E. Robertson, Christo Wilson

Understanding and Detecting Hateful Content Using Contrastive Learning 257
Felipe González-Pizarro, Savvas Zannettou

SciLander: Mapping the Scientific News Landscape 269
Maurício Gruppi, Panayiotis Smeros, Sibel Adalı, Carlos Castillo, Karl Aberer

A Data Fusion Framework for Multi-Domain Morality Learning 281
Siyi Guo, Negar Mokhberian, Kristina Lerman

Representing and Determining Argumentative Relevance in Online Discussions: A General Approach 292
Zhen Guo, Munindar P. Singh

The Morbid Realities of Social Media: An Investigation into the Narratives Shared by the Deceased Victims of COVID-19 303
Hussam Habib, Rishab Nithyanand

Motif-Based Exploratory Data Analysis for State-Backed Platform Manipulation on Twitter 315
Khuzaima Hameed, Rob Johnston, Brent Younce, Minh Tang, Alyson Wilson

Happenstance: Utilizing Semantic Search to Track Russian State Media Narratives about the Russo-Ukrainian War on Reddit 327
Hans W. A. Hanley, Deepak Kumar, Zakir Durumeric

"A Special Operation": A Quantitative Approach to Dissecting and Comparing Different Media Ecosystems' Coverage of the Russo-Ukrainian War 339
Hans W. A. Hanley, Deepak Kumar, Zakir Durumeric

The Geography of Facebook Groups in the United States 351
Amaç Herdağdelen, Lada Adamic, Bogdan State

Quotatives Indicate Decline in Objectivity in U.S. Political News 363
Tiancheng Hu, Manoel Horta Ribeiro, Robert West, Andreas Spitz

Information Retention in the Multi-Platform Sharing of Science..... 375
Sohyeon Hwang, Emőke-Ágnes Horvát, Daniel M. Romero

Measuring Belief Dynamics on Twitter..... 387
Joshua Introne

Lady and the Tramp Nextdoor: Online Manifestations of Real-World Inequalities in the Nextdoor Social Network 399
Waleed Iqbal, Vahid Ghafouri, Gareth Tyson, Guillermo Suarez-Tangil, Ignacio Castro

Weakly Supervised Learning for Analyzing Political Campaigns on Facebook 411
Tunazzina Islam, Shamik Roy, Dan Goldwasser

Online Emotions during the Storming of the U.S. Capitol: Evidence from the Social Media Network Parler 423
Johannes Jakubik, Michael Vössing, Nicolas Pröllochs, Dominik Bär, Stefan Feuerriegel

Effect of Feedback on Drug Consumption Disclosures on Social Media..... 435
Hitkul Jangra, Rajiv Shah, Ponnurangam Kumaraguru

SexWEs: Domain-Aware Word Embeddings via Cross-Lingual Semantic Specialisation for Chinese Sexism Detection in Social Media..... 447
Aiqi Jiang, Arkaitz Zubiaga

Retweet-BERT: Political Leaning Detection Using Language Features and Information Diffusion on Social Networks..... 459
Julie Jiang, Xiang Ren, Emilio Ferrara

Images, Emotions, and Credibility: Effect of Emotional Facial Expressions on Perceptions of News Content Bias and Source Credibility in Social Media 470
Alireza Karduni, Ryan Wesslen, Douglas Markant, Wenwen Dou

InfluencerRank: Discovering Effective Influencers via Graph Convolutional Attentive Recurrent Neural Networks..... 482
Seungbae Kim, Jyun-Yu Jiang, Jinyoung Han, Wei Wang

Popular Support for Balancing Equity and Efficiency in Resource Allocation: A Case Study in Online Advertising to Increase Welfare Program Awareness 494
Allison Koenecke, Eric Giannella, Robb Willer, Sharad Goel

Personal History Affects Reference Points: A Case Study of Codeforces 507
Takeshi Kurashima, Tomoharu Iwata, Tomu Tominaga, Shuhei Yamamoto, Hiroyuki Toda, Kazuhisa Takemura

Large-Scale Demographic Inference of Social Media Users in a Low-Resource Scenario..... 519
Karim Lasri, Manuel Tonneau, Haaya Naushan, Niyati Malhotra, Ibrahim Farouq, Víctor Orozco-Olvera, Samuel Fraiberger

Associative Inference Can Increase People's Susceptibility to Misinformation 530
Sian Lee, Haeseung Seo, Dongwon Lee, Aiping Xiong

Beyond Discrete Genres: Mapping News Items onto a Multidimensional Framework of Genre Cues..... 542
Zilin Lin, Kasper Welbers, Susan Vermeer, Damian Trilling

"Learn the Facts about COVID-19": Analyzing the Use of Warning Labels on TikTok Videos 554
Chen Ling, Krishna P. Gummadi, Savvas Zannettou

Improving Mental Health Classifier Generalization with Pre-diagnosis Data..... 566
Yujian Liu, Laura Biester, Rada Mihalcea

VOLUME 2

Team Resilience under Shock: An Empirical Analysis of GitHub Repositories during Early COVID-19 Pandemic 578
Xuan Lu, Wei Ai, Yixin Wang, Qiaozhu Mei

Contextualizing Online Conversational Networks 590
Thomas Magelinski, Kathleen M. Carley

Comfort Foods and Community Connectedness: Investigating Diet Change during COVID-19 Using YouTube Videos on Twitter..... 602
Yelena Mejova, Lydia Manikonda

Authority without Care: Moral Values behind the Mask Mandate Response 614
Yelena Mejova, Kyriaki Kalimeri, Gianmarco De Francisci Morales

Bridging Nations: Quantifying the Role of Multilinguals in Communication on Social Media 626
Julia Mendelsohn, Sayan Ghosh, David Jurgens, Ceren Budak

Information Operations in Turkey: Manufacturing Resilience with Free Twitter Accounts..... 638
Maya Merhi, Sarah Rajtmajer, Dongwon Lee

"This Is Fake News": Characterizing the Spontaneous Debunking from Twitter Users to COVID-19 False Information 650
Kunihiro Miyazaki, Takayuki Uchiba, Kenji Tanaka, Jisun An, Haewoon Kwak, Kazutoshi Sasahara

Echo Tunnels: Polarized News Sharing Online Runs Narrow but Deep 662
Lillio Mok, Michael Inzlicht, Ashton Anderson

The Chance of Winning Election Impacts on Social Media Strategy..... 674
Taichi Murayama, Akira Matsui, Kunihiro Miyazaki, Yasuko Matsubara, Yasushi Sakurai

BotBuster: Multi-Platform Bot Detection Using a Mixture of Experts..... 686
Lynnette Hui Xian Ng, Kathleen M. Carley

"Dummy Grandpa, Do You Know Anything?": Identifying and Characterizing Ad Hominem Fallacy Usage in the Wild..... 698
Utkarsh Patel, Animesh Mukherjee, Mainack Mondal

On the Relation between Opinion Change and Information Consumption on Reddit..... 710
Flavio Petruzzellis, Francesco Bonchi, Gianmarco De Francisci Morales, Corrado Monti

This Sample Seems to Be Good Enough! Assessing Coverage and Temporal Reliability of Twitter's Academic API 720
Jürgen Pfeffer, Angelina Mooseder, Jana Lasser, Luca Hammer, Oliver Stritzel, David Garcia

The Geometry of Misinformation: Embedding Twitter Networks of Users Who Spread Fake News in Geometrical Opinion Spaces 730
Pedro Ramaciotti Morales, Manon Berriche, Jean-Philippe Cointet

Spillover of Antisocial Behavior from Fringe Platforms: The Unintended Consequences of Community Banning 742
Giuseppe Russo, Luca Verginer, Manoel Horta Ribeiro, Giona Casiraghi

Cross-Lingual and Cross-Domain Crisis Classification for Low-Resource Scenarios 754
Cinthia Sánchez, Hernan Sarmiento, Andres Abeliuk, Jorge Pérez, Barbara Poblete

How Much User Context Do We Need? Privacy by Design in Mental Health NLP Applications 766
Ramit Sawhney, Atula Neerkaje, Ivan Habernal, Lucie Flek

Effects of Algorithmic Trend Promotion: Evidence from Coordinated Campaigns in Twitter's Trending Topics 777
Joseph Schlessinger, Kiran Garimella, Maurice Jakesch, Dean Eckles

Detecting Anti-vaccine Users on Twitter 787
Matheus Schmitz, Goran Muric, Keith Burghardt

Cybersecurity Misinformation Detection on Social Media: Case Studies on Phishing Reports and Zoom's Threat 796
Mohit Singhal, Nihal Kumarswamy, Shreyasi Kinhekar, Shirin Nilizadeh

Characterizing and Identifying Socially Shared Self-Descriptions in Product Reviews 808
Lu Sun, F. Maxwell Harper, Chia-Jung Lee, Vanessa Murdock, Barbara Poblete

Social Influence-Maximizing Group Recommendation 820
Yangke Sun, Bogdan Cautis, Silviu Maniu

Top-Down Influence? Predicting CEO Personality and Risk Impact from Speech Transcripts 832
Kilian Theil, Dirk Hovy, Heiner Stuckenschmidt

Identifying Influential Brokers on Social Media from Social Network Structure 842
Sho Tsugawa, Kohei Watabe

A Multi-Task Model for Sentiment Aided Stance Detection of Climate Change Tweets 854
Apoorva Upadhyaya, Marco Fisichella, Wolfgang Nejdl

An Open-Source Cultural Consensus Approach to Name-Based Gender Classification 866
Ian Van Buskirk, Aaron Clauset, Daniel B. Larremore

Reddit in the Time of COVID 878
Veniamin Veselovsky, Ashton Anderson

Identifying and Characterizing Behavioral Classes of Radicalization within the QAnon Conspiracy on Twitter 890
Emily L. Wang, Luca Luceri, Francesco Pierri, Emilio Ferrara

AnnoBERT: Effectively Representing Multiple Annotators' Label Choices to Improve Hate Speech Detection 902
Wenjie Yin, Vibhor Agarwal, Aiqi Jiang, Arkaitz Zubiaga, Nishanth Sastry

Unique in What Sense? Heterogeneous Relationships between Multiple Types of Uniqueness and Popularity in Music 914
Yulin Yu, Pui Yin Cheung, Yong-Yeol Ahn, Paramveer S. Dhillon

Conversation Modeling to Predict Derailment 926
Jiaqing Yuan, Munindar P. Singh

Minority Stress Experienced by LGBTQ Online Communities during the COVID-19 Pandemic 936
Yunhao Yuan, Gaurav Verma, Barbara Keller, Talayeh Aledavood

How Circadian Rhythms Extracted from Social Media Relate to Physical Activity and Sleep 948
Ke Zhou, Marios Constantinides, Daniele Quercia, Sanja Šćepanović

Who Is behind a Trend? Temporal Analysis of Interactions among Trend Participants on Twitter 960
John Ziegler, Michael Gertz

DATASET PAPERS

Towards Generalization of Machine Learning Models: A Case Study of Arabic Sentiment Analysis 971
Samir Abdaljalil, Shaimaa Hassanein, Hamdy Mubarak, Ahmed Abdelali

A Multi-Platform Collection of Social Media Posts about the 2022 U.S. Midterm Elections 981
Rachith Aiyappa, Matthew R. DeVerna, Manita Pote, Bao Tran Truong, Wanying Zhao, David Axelrod, Aria Pessianzadeh, Zoher Kachwala, Munjung Kim, Ozgur Can Seckin, Minsuk Kim, Sunny Gandhi, Amrutha Manikonda, Francesco Pierri, Filippo Menczer, Kai-Cheng Yang

Wiki-Based Communities of Interest: Demographics and Outliers 990
Hiba Arnaout, Simon Razniewski, Jeff Z. Pan

#RoeOverturned: Twitter Dataset on the Abortion Rights Controversy 997
Rong-Ching Chang, Ashwin Rao, Qiankun Zhong, Magdalena Wojcieszak, Kristina Lerman

Tweets in Time of Conflict: A Public Dataset Tracking the Twitter Discourse on the War between Ukraine and Russia 1006
Emily Chen, Emilio Ferrara

HateMM: A Multi-Modal Dataset for Hate Video Classification 1014
Mithun Das, Rohit Raj, Punyajoy Saha, Binny Mathew, Manish Gupta, Animesh Mukherjee

HealthE: Recognizing Health Advice & Entities in Online Health Communities 1024
Joseph Gatto, Parker Seegmiller, Garrett M Johnston, Madhusudan Basak, Sarah Masud Preum

Truth Social Dataset 1034
Patrick Gerard, Nicholas Botzer, Tim Weninger

Construction of Evaluation Datasets for Trend Forecasting Studies 1041
Shogo Matsuno, Sakae Mizuki, Takeshi Sakaki

VaxxHesitancy: A Dataset for Studying Hesitancy towards COVID-19 Vaccination on Twitter 1052
Yida Mu, Mali Jin, Charlie Grimshaw, Carolina Scarton, Kalina Bontcheva, Xingyi Song

Capturing the Aftermath of the Dobbs v. Jackson Women's Health Organization Decision in Google Search Results across the U.S. 1063
Brooke Perreault, Lan Dau, Anya Wintner, Eni Mustafaraj

Just Another Day on Twitter: A Complete 24 Hours of Twitter Data 1073
Jürgen Pfeffer, Daniel Matter, Kokil Jaidka, Onur Varol, Afra Mashhadi, Jana Lasser, Dennis Assenmacher, Siqi Wu, Diyi Yang, Cornelia Brantner, Daniel M. Romero, Jahna Otterbacher, Carsten Schwemmer, Kenneth Joseph, David Garcia, Fred Morstatter

Codes, Patterns and Shapes of Contemporary Online Antisemitism and Conspiracy Narratives – an Annotation Guide and Labeled German-Language Dataset in the Context of COVID-19..... 1082
Elisabeth Steffen, Helena Mihaljevic, Milena Pustet, Nyco Bischoff, Maria do Mar Castro Varela, Yener Bayramoglu, Bahar Oghalai

Invasion@Ukraine: Providing and Describing a Twitter Streaming Dataset That Captures the Outbreak of War between Russia and Ukraine in 2022 1093
Janina Susanne Pohl, Simon Markmann, Dennis Assenmacher, Christian Grimme

YouNICon: YouTube's CommuNIty of Conspiracy Videos 1102
Shao Yi Liaw, Fan Huang, Fabricio Benevenuto, Haewoon Kwak, Jisun An

A Dataset of Coordinated Cryptocurrency-Related Social Media Campaigns 1112
Karolis Zilius, Tasos Spiliotopoulos, Aad van Moorsel

POSTER PAPERS

Divergences in Following Patterns between Influential Twitter Users and Their Audiences across Dimensions of Identity 1123
Suyash Fulay, Nabeel Gillani, Deb Roy

Firearms on Twitter: A Novel Object Detection Pipeline 1128
Ryan Harvey, Rémi Lebret, Stéphane Massonnet, Karl Aberer, Gianluca Demartini

Auditing Elon Musk's Impact on Hate Speech and Bots.....1133
Daniel Hickey, Matheus Schmitz, Daniel Fessler, Paul E. Smaldino, Goran Muric, Keith Burghardt

The Amplification Paradox in Recommender Systems 1138
Manoel Horta Ribeiro, Veniamin Veselovsky, Robert West

Host-Centric Social Connectedness of Migrants in Europe on Facebook 1143
Aparup Khatua, Emilio Zagheni, Ingmar Weber

Characterizing Coin-Based Voting Governance in DPoS Blockchains 1148
Chao Li, Runhua Xu, Li Duan

Different Affordances on Facebook and SMS Text Messaging Do Not Impede Generalization of Language-Based Predictive Models 1153
Tingting Liu, Salvatore Giorgi, Xiangyu Tao, Sharath Chandra Guntuku, Douglas Bellew, Brenda Curtis, Lyle Ungar

An Example of (Too Much) Hyper-Parameter Tuning In Suicide Ideation Detection 1158
Annika Marie Schoene, John Ortega, Silvio Amir, Kenneth Church

The Half-Life of a Tweet.....1163
Jürgen Pfeffer, Daniel Matter, Anahit Sargsyan

ERRATUM

Erratum to: Rules and Rule-Making in the Five Largest Wikipedias 1169
Sohyeon Hwang, Aaron Shaw

Author Index