

Proceedings of the 2024 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2024)

LNCS 15211, ASONAM 2024, Part I:

Table of Contents

Research

Scalable High-Performance Community Detection Using Label Propagation in Massive Networks	1
<i>Sharon Boddu and Maleq Khan</i>	
EDGE-UP: Enhanced Dynamic GNN Ensemble for Unfollow Prediction in Online Social Networks	17
<i>Soheila Farokhi, Arash Azizian Foumani, Xiaojun Qi, Tyler Derr and Hamid Karimi</i>	
Beyond Boundaries: Capturing Social Segregation on Hypernetworks	33
<i>Andrea Failla, Giulio Rossetti and Francesco Cauteruccio</i>	
Burstiness in Emotions: A Case Study on Collective Affective Responses in Italian Soccer Fandoms	49
<i>Salvatore Citraro, Giovanni Mauro and Emanuele Ferragina</i>	
Exploring Crisis-Driven Social Media Patterns: A Twitter Dataset of Usage During the Russo-Ukrainian War	63
<i>Ioannis Lamprou, Alexander Shevtsov, Despoina Antonakaki, Polyvios Pratikakis and Sotiris Ioannidis</i>	
PARALLAX: Leveraging Polarization Knowledge for Misinformation Detection	79
<i>Demetris Paschalides, George Pallis and Marios Dikaiakos</i>	
Dynamic Inter-Organizational Communication Network in a Post-Merger Integration	97
<i>Michael Benzinger, Raji Ghawi, Lukas Zenk and JÃ¼rgen Pfeffer</i>	
Analyzing X's Web of Influence: Dissecting News Sharing Dynamics through Credibility and Popularity with Transfer Entropy and Multiplex Network Measures	115

Sina Abdidizaji, Alexander Baekey, Chathura Jayalath, Alexander Mantzaris, Ozlem Ozmen Garibay and Ivan Garibay

FairNet: A Genetic Framework to Reduce Marginalization in Social Networks 131
Federico Mazzoni, Andrea Failla and Giulio Rossetti

Agent-Based Modelling Meets Generative AI in Social Network Simulations 147
Antonino Ferraro, Antonio Galli, Valerio La Gatta, Marco Postiglione, Gian Marco Orlando, Diego Russo, Giuseppe Riccio, Antonio Romano and Vincenzo Moscato

DeepFairRank: A Multi-Objective Framework for Fair Top-k Node Ranking in Network Data..... 163
Francisco Santos, Farzan Masrour, Pang-Ning Tan and Abdol-Hossein Esfahani

RUMs with Ties: A Discrete Choice Model Allowing Multiple Winners 179
Flavio Chierichetti, Ravi Kumar, Giuseppe Re and Andrew Tomkins

Thresholds as Mechanisms for Weighting Influence in the Linear Threshold Rank. 197
Maria J. Blesa, Alejandro Dominguez-Besserer and Maria Serna

Parfaite: PageRank-Matrix Factorization for Interpretable Graph Embeddings 213
Gabriel Damay and Mauro Sozio

Categorising Corruption in the Vaccine Discourse: A General Taxonomy, Data Set, and Evaluation of LLMs for Classifying Corruption Dialogue in Social Media 229
Vitor Gaboardi dos Santos, Guto Leoni Santos, Antonia Egli, Estatira Kahvazadeh, Bill Doolin, Patricia Endo and Theo Lynn

Evaluating and improving projects' bus-factor: a network analytical framework 245
Sebastiano Piccolo, Pasquale De Meo and Giorgio Terracina

Towards Generalized Offensive Language Identification 261
Alphaeus Dmonte, Tejas Arya, Tharindu Ranasinghe and Marcos Zampieri

Online Social Community Neighborhood Formation..... 277
Jiarui Wang, George Barnett, Norman Matloff and S. Felix Wu

Enhancing Stance Classification on Social Media Using Quantified Moral Foundations..... 294
Hong Zhang, Quoc-Nam Nguyen, Prasanta Bhattacharya, Wei Gao, Liang Ze Wong, Brandon Siyuan Loh, Joseph J. P. Simons and Jisun An

On Mining Dynamic Graphs for k Shortest Paths	310
<i>Andrea D'Ascenzo and Mattia D'Emidio</i>	
WIBA: What Is Being Argued? A Comprehensive Approach to Argument Mining	326
<i>Arman Irani, Ju Yeon Park, Kevin Esterling and Michalis Faloutsos</i>	
FReCS: A First Responder Classification System.....	343
<i>Ademola Adesokan, Sanjay Madria and Long Nguyen</i>	
Exploring Behavioral Tendencies on Social Media: A Perspective Through Claim Check-Worthiness.....	359
<i>Zeyu Zhang, Zhengyuan Zhu, Haiqi Zhang and Chengkai Li</i>	
You Must be a Trump Supporter: Political Identity Projections on the Social Web.	377
<i>Shubh Mittal, Tisha Chawla and Ashiqur R. Khudabukhsh</i>	
Node Generation for Node Classification in Sparsely-Labeled Graphs	390
<i>Hang Cui and Tarek Abdelzaher</i>	
The Dawn of Decentralized Social Media: An Exploration of Bluesky's Public Open- ing	406
<i>Erfan Samieyan Sahneh, Gianluca Nogara, Matthew DeVerna, Nick Liu, Luca Luceri, Filippo Menczer, Francesco Pierri and Silvia Giordano</i>	
Weaponizing the Wall: The Role of Sponsored News in Spreading Propaganda on Facebook.....	422
<i>Daman Deep Singh, Gaurav Chauhan, Minh-Kha Nguyen, Oana Goga and Ab- hijnan Chakraborty</i>	
Exploring Relationships Between Cryptocurrency News and Influencers' Activity on Twitter and Market Prices.....	438
<i>Meysam Alizadeh, Yasaman Asgari, Zeynab Samei, Sara Yari, Shirin Dehghani, Mael Kubli, Darya Zare, Juan Diego Bermeo, Veronika Batzdorfer and Fabrizio Gilardi</i>	
AmGNN: A Framework for Adaptive Processing of Inter-layer Information in Multi- layer Graph	454
<i>Huaisheng Zhu, Zongyu Wu, Tianxiang Zhao and Suhang Wang</i>	
Detecting Homophobic Speech in Soccer Tweets Using Large Language Models and Explainable AI	470
<i>Guto Leoni Santos, Vitor Gaboardi dos Santos, Colm Kearns, Gary Sinclair, Jack Black, Mark Doidge, Thomas Fletcher, Dan Kilvington, Katie Liston, Patri- cia Takako Endo and Theo Lynn</i>	

Proceedings of the 2024 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2024)

LNCS 15212, ASONAM 2024, Part II:

Table of Contents

Research

Federated Learning-Based Tokenizer for Domain-Specific Language Models in Finance	1
<i>Farouk Damoun, Hamida Seba and Radu State</i>	
Robust Stance Detection: Understanding Public Perceptions in Social Media	19
<i>Nayoung Kim, David Mosallanezhad, Lu Cheng, Michelle Mancenido and Huan Liu</i>	
Impacts of Personalization on Social Network Exposure	35
<i>Nathan Bartley, Keith Burghardt and Kristina Lerman</i>	
Event Embedding Learning from Social Media Using Graph Topic Model Autoencoder	51
<i>Yihong Zhang and Takahiro Hara</i>	
The Impact of Featuring Comments in Online Discussions	61
<i>Cedric Waterschoot, Antal van Den Bosch and Ernst van den Hemel</i>	
Multicriteria Recommendation System by Leveraging Predefined, Implicit, and Undefined Criteria	71
<i>Emrul Hasan and Chen Ding</i>	
Non-Binary Gender Expression in Online Interactions	81
<i>Rebecca Dorn, Negar Mokhberian, Julie Jiang, Jeremy Abramson, Fred Morstatter and Kristina Lerman</i>	
Browsing Amazon's Book Bubbles	91
<i>Paul Bouchaud</i>	

Intertwined Biases Across Social Media Spheres: Unpacking Correlations in Media Bias Dimensions	101
<i>Yifan Liu, Yike Li and Dong Wang</i>	
Improving the accuracy of community detection in social network through a hybrid method	111
<i>Mahsa Nooribakhsh, Marta Fernández-Diego, Fernando González-Ladrón-De-Guevara and Mahdi Mollamotalebi</i>	
A Model of Net Flaming Caused by News Propagation in Online Social Networks	121
<i>Harumasa Tada, Masayuki Murata and Masaki Aida</i>	
Gradient Descent Clustering with Regularization to Recover Communities in Transformed Attributed Networks	131
<i>Soroosh Shalileh</i>	
OutlineGen: Multi-lingual Outline Generation for Encyclopedic Text in Low Resource Languages.....	142
<i>Shivansh Subramanian, Dhaval Taunk, Manish Gupta and Vasudeva Varma</i>	
Leveraging Secure Social Media Crowdsourcing for Gathering Firsthand Account in Conflict Zones	152
<i>Abaniseniohuwa Orojo, Pranish Bhagat, John Wilburn, Micheal Donahoo and Nishant Vishwamitra</i>	
Applying the Ego Network Model to Cross-Target Stance Detection	162
<i>Jack Tacchi, Parisa Jamadi Khiabani, Arkaitz Zubiaga, Chiara Boldrini and Andrea Passarella</i>	
FOCI: Fair Cross-Network Node Classification via Optimal Transport	173
<i>Anna Stephens, Francisco Santos, Pang-Ning Tan and Abdol-Hossein Esfahani</i>	
Fast Flocking of Protesters on Street Networks.....	183
<i>Guillaume Moinard and Matthieu Latapy</i>	
Unraveling the Italian and English Telegram Conspiracy Spheres through Message Forwarding.....	193
<i>Lorenzo Alvisi, Serena Tardelli and Maurizio Tesconi</i>	
Masking the Bias: From Echo Chambers to Large Scale Aspect-Based Sentiment Analysis	203
<i>Yeonjung Lee, Yusuf Mucahit Cetinkaya, Emre Kulah, İsmail Hakkı Toroslu and Hasan Davulcu</i>	

Computational Analysis of Communicative Acts for Understanding Crisis News Comment Discourses	214
<i>Henna Paakki and Faeze Ghorbanpour</i>	
A Lightweight Approach for User and Keyword Classification in Controversial Topics	230
<i>Ahmad Zareie, Kalina Bontcheva and Carolina Scarton</i>	
Centrality in Directed Networks	240
<i>Gordana Marmulla and Ulrik Brandes</i>	
Mitigating the Spread of COVID-19 Misinformation Using Agent-Based Modeling and Delays in Information Diffusion	250
<i>Mustafa Alassad and Nitin Agarwal</i>	
Provenance for Longitudinal Analysis in Large Scale Networks	260
<i>Andrei Stoica and Mirela Riveni</i>	
Culture Fingerprint: Identification of Culturally Similar Urban Areas Using Google Places Data	271
<i>Fernanda Gubert, Gustavo Santos, Myriam Delgado, Daniel Silver and Thiago Silva</i>	
Utilizing Fractional Order Epidemiological Model to Understand High and Moderate Toxicity Spread on Social Media Platforms	282
<i>Emmanuel Addai, Niloofar Yousefi and Nitin Agarwal</i>	
From Retweets to Follows: Facilitating Graph Construction in Online Social Net- works Through Machine Learning	293
<i>Anahit Sargsyan and Jürgen Pfeffer</i>	
ClimateMiSt: Climate Change Misinformation and Stance Detection Dataset	304
<i>Yeonjung Choi, Lanyu Shang and Dong Wang</i>	
Hate Speech Classification in Text-Embedded Images: Integrating Ontology, Context- tual Semantics, and Vision-Language Representations	314
<i>Surendrabikram Thapa, Surabhi Adhikari, Imran Razzak, Roy Ka-Wei Lee and Usman Naseem</i>	
VLP: A Label Propagation Algorithm for Community Detection in Complex Net- works	325
<i>Sharon Boddu, Maleq Khan and Mais Nijim</i>	

Proceedings of the 2024 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2024)

LNCS 15213, ASONAM 2024, Part III:

Table of Contents

Research

Across Platforms and Languages: Dutch Influencers and Legal Disclosures on Instagram, YouTube and TikTok	1
<i>Haoyang Gui, Thales Bertaglia, Catalina Goanta, Sybe de Vries and Gerasimos Spanakis</i>	
Exploring the Capability of ChatGPT to Reproduce Human Labels for Social Computing Tasks	11
<i>Yiming Zhu, Peixian Zhang, Ehsan Ul Haq, Pan Hui and Gareth Tyson</i>	
Fuzzy and Overlapping Communities Detection: An Improved Approach Using Formal Concept Analysis	21
<i>Martin Waffo Kemgne, Christophe Demko, Karell Bertet and Jean-Loup Guillaume</i>	
Understanding Engagement Dynamics with (Un)Reliable News Publishers on Twitter	33
<i>Alireza Mohammadinodooshan and Niklas Carlsson</i>	
PUREmotion: Understanding the Impact of Highway Construction on People's Wellbeing	44
<i>Omar Hammad, Aniya Khalili, Nicholas Clements, Shelly Miller, Shivakant Mishra and Esther Sullivan</i>	
Opinion and self-confidence in influence networks: a coupled dynamics model	54
<i>Emmanuel Kravitzch, Vineeth Varma, Antoine O. Berthet and Yezekael Hayel</i>	
The Emergence of Threads: The Birth of a New Social Network	65
<i>Peixian Zhang, Yupeng He, Ehsan Ul Haq, Jiahui He and Gareth Tyson</i>	

SocFedGPT: Federated GPT-based Adaptive Content Filtering System Leveraging User Interactions in Social Networks	75
<i>Sai Puppala, Ismail Hossian, Jahangir Alam and Sajedul Talukder</i>	
Anonymous Dissent in the Digital Age: A YouTube Dislikes Dataset	85
<i>Sujan Dutta, Mallikarjuna Tupakula, Sumeet Kumar and Ashiqur R. KhudaBukhs</i>	

PhD

From Prison Gang to Transnational Criminal Organization. A Social Network Analysis of the Tren de Aragua	96
<i>Laura Homann and Oscar Alvaro-Montes</i>	
Methodology for Identifying Social Groups within a Transactional Graph	110
<i>Maxence Morin, Baptiste Hemery, Estelle Pawlowski-Cherrier and Fabrice Jeanne</i>	
Evaluating Deep Graph Network Performance by Augmenting Node Features with Structural Features	125
<i>Mohamad Elhadi Abushofa, Amir Atapour Abarghouei, Matthew Forshaw and A. Stephen McGough</i>	
Beyond the Surface: Navigating Complex Systems via ABMs and Hypergraphs	141
<i>Daniele De Vinco</i>	
Which Reveals Ideology Better? Comparing Self-Presentation and Public Rhetoric in the Facebook Climate Debate via Embeddings Analysis	157
<i>Luigi Arminio and Luca Rossi</i>	

Multidisciplinary

Five Patterns of Vaccine Misinformation on Telegram	170
<i>Fabio Malini, Francis Sodré, Athus Cavallini, Gabriel Herkenhoff and Fabio Goveia</i>	
MLCDG: Multi-Level Contrastive Graph Clustering in Dynamic Graphs	186
<i>Mohamed Mahmoud Amar, Mohamed Bouguessa and Abdoulaye Baniré Diallo</i>	
Dissecting the Advocacy Discourse Behind the #StopAsianHate Movement on X/Twitter	200
<i>Yuze Sha, Nicholas Micallef and Yan Wu</i>	

Evaluating LLMs Capabilities Towards Understanding Social Dynamics	218
<i>Anique Tahir, Lu Cheng, Manuel Sandoval, Yasin Silva, Deborah Hall and Huan Liu</i>	
Two-Stage Stance Labeling: User-Hashtag Heuristics with Graph Neural Networks	234
<i>Joshua Melton, Shannon Reid, Gabriel Terejanu and Siddharth Krishnan</i>	
Enhancing School Success Prediction with FRC and Merged GNN.....	250
<i>Melike Yildiz Aktas, Aadyant Khatri, Mariam Almutairi, Lulwah Alkulaib and Chang-Tien Lu</i>	
Balancing Efficiency and Quality in LLM-Based Entity Resolution on Structured Data	266
<i>Navapat Nananukul and Mayank Kejriwal</i>	
Analyzing Characteristics of Nontrivial Information Diffusion via Implicit Links on Social Media	282
<i>Yuto Tamura, Sho Tsugawa and Kohei Watabe</i>	
Insights About Radicalism on the Digital Era: A Sociological Approach.....	295
<i>Victoria Ferro, Athus Cavalini, Fabio Goveia and Fabio Malini</i>	
Investigating Gender Euphoria and Dysphoria on TikTok: Characterization and Comparison.....	310
<i>Sj Dillon, Yueqing Liang, H. Russell Bernard and Kai Shu</i>	
PRAGyan - Connecting the Dots in Tweets	326
<i>Rahul Ravi, Gouri Ginde and Jon Rokne</i>	
Identifying Cyberbullying Roles in Social Media	343
<i>Manuel Sandoval Madrigal, Mohammed Abuhamad, Patrick Furman, Muftaba Nazari, Deborah Hall and Yasin Silva</i>	
Exploration of Hugging Face Models by Heterogeneous Information Network and linking across Scholarly Repositories.....	358
<i>Muhammad Asif Suryani, Saurav Karmakar and Brigitte Mathiak</i>	

Proceedings of the 2024 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2024)

LNCS 15214, ASONAM 2024, Part IV:

Table of Contents

Multidisiplinary

A Social Network Based Approach to Analyzing Artistic Influences on American Stand-Up Comedians	1
<i>Sachin Date</i>	
Network Analysis of Indian Corporate Interlocks: Patterns, Players and Sectors.....	17
<i>Yayati Gupta, Aaditeshwar Seth and Sanatan Sukhija</i>	
Path2Vec: Representation Learning for Node Sequences Based on Contrastive Learning	33
<i>Takayasu Fushimi and Yuki Kawasaki</i>	
Whispers of Trauma: Leveraging Social Media for Assessing Mental Health in Victims of Childhood Sexual Abuse	49
<i>Orchid Chetia Phukan, Rajesh Sharma and Arun Balaji Buduru</i>	
Online Social Community City Classification.....	65
<i>Jiarui Wang, George Barnett, Norman Matloff and S. Felix Wu</i>	
Multi Objective Optimization Approach for WSN based on Reinforcement Learning	81
<i>Faten Hajjej, Monia Hamdi and Mourad Zaied</i>	
Making Social Platforms Accessible: Emotion-Aware Speech Generation with Integrated Text Analysis	98
<i>Suparna De, Ionut Bostan and Nishanth Sastry</i>	

Industrial

Empowering Airline Route Decisions with LLM-Generated Pseudo-Labels and Zero-Shot Review Prediction	114
<i>Abdulaziz Alhamadani, Khadija Althubiti, Jianfeng He, Shailik Sarkar, Lulwah Alkulaib, Abdul Raheem Shaik, Seungwon Shawn Lee and Chang-Tien Lu</i>	
Data Composition for Continual Learning in Application of Cyberattack Detection.....	131
<i>Jiayi Lian, Xueying Liu, Kevin Choi, Balaji Veeramani, Sathvik Murli, Alison Hu, Laura Freeman, Edward Bowen and Xinwei Deng</i>	
Optimizing Airline Destinations with AIRNODE: A Graph Attention Network Approach	147
<i>Abdul Raheem Shaik, Abdulaziz Alhamadani, Shailik Sarkar and Chang-Tien Lu</i>	
HyperSMOTE-MC: Enhancing Multiclass Bot Detection on X through Hypergraph-based Resampling	163
<i>Lulwah Alkulaib and Chang-Tien Lu</i>	
IntelliSMART: Intelligent Semantic Machine-Assisted Research Tool.....	179
<i>Aadyant Khatri, Nicolas Egierski, Ashutosh Pochamreddy, Abdulaziz Alhamadani, Shailik Sarkar and Chang-Tien Lu</i>	

FAB2024

Knowledge Graphs (KG) Assisted Variational Autoencoder (VAE) for Large-Scale Anomaly and Event Detection.....	189
<i>Ying Zhao</i>	
A real-time sentiment feedback system: binary categorization and context understanding based on product reviews.....	205
<i>Carson Leung, Arshpreet Buttar, Jiawei Fan, Olukoye Fatoki and Roba Geleta</i>	
Prescient Perspectives on Football Tactics: A Case with Liverpool FC, Corners and AI	221
<i>Marco Rocchetti, Marco Tenace and Giuseppe Cappiello</i>	
Combating Echo Chambers In Online Social Network By Increasing Content Diversity In Recommendation.....	230
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	
Medical Report Generation from Medical Images Using Vision Transformer and Bart Deep Learning Architectures	246
<i>Murat Ucan, Buket Kaya, Mehmet Kaya and Reda Alhajj</i>	

FOSINT-SI-2024

Hidden in Plain Sight: Using Contact Information to Identify Sex Trafficking in Online Advertisements	258
<i>Noelle Warkentin and Richard Frank</i>	
Analyzing the Dynamics of Hate Speech on Online Platforms	274
<i>Dhwani Jakhaniya</i>	
Are Narratives Contagious? Modeling Narrative Diffusion Using Epidemiological Theories	290
<i>Mayor Inna Gurung, Nitin Agarwal and Ahmed Al-Taweel</i>	
A Longitudinal Network Analysis of the Space Sector Using International Trade Data	306
<i>Frank Guldstrand, Sandra Lindström, Linn Mattsson and Jonatan Westman</i>	

Proceedings of the 2024 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2024)

LNSN, ASONAM 2024, Part I:

Table of Contents

PhD

Route Recommendation for Healthcare by Reducing Approach Bias as a Food Desire	1
<i>Xinni Yang, Yuanyuan Wang, Panote Siriaraya and Yukiko Kawai</i>	
Visual and Textual Analysis of the Online Anti-Femicide Movement in Mexico: A Narrative Network Approach.....	10
<i>Laura W. Dozal</i>	
Using Social Network Analysis to Analyze Eye-tracking Behavior Data in Education Science	15
<i>Pingjing Yang</i>	

Multidisciplinary

A Novel Network Dataset Based on Football Players' Co-Appearances.....	24
<i>Ahmad Zareie and Rizos Sakellariou</i>	

Industrial

Smart Human Resource Management System.....	31
<i>Sara Foresta, Silvestro Roberto Poccia, Antonio Celotto, Francesco Pasqua, Antonino Barone, Dennis Petullà and Elmiro Tavolaro</i>	
Searching Temporal Knowledge Graphs to Understand The Impacts of Disasters.....	36
<i>Seonhyeong Kim, Young-Woo Kwon and Seonhwa Choi</i>	

Demo2024

Multi-agent Analytics-Driven Content Discovery: A Narrative Contagion Approach 46
Ishmam Solaiman and Nitin Agarwal

Navigating the Anomalies: A Comprehensive Analysis of YouTube Channel Behavior 54
Shadi Shajari, Ridwan Amure and Nitin Agarwal

ISAC: An Interactive Hierarchical Interface for Efficient Structural Analysis and Vertex Search in Complex Networks 62
Navapat Nananukul, Khanin Sisaengsuwanchai and Mayank Kejriwal

FOSINT-SI-2024

Russian Invaders on the Internet's Front Page - A Survey of Behaviors in Ukraine-Related Subreddits 70
Christopher Lowetz and Ian McCulloh

Echoes of War: How Reddit Narratives Shape Sectarian Views of the Israel-Hamas War 78
Ian McCulloh, Ryan Bergamini and Charles Mackey

HIBIBI-2024

Predicting the Role of Temozolomide Drug in Glioma By integrating Available Genomic Databases and Computational Methods 82
Mehmet Kaya

A Measure of the Robustness of Clusters in a Network with No Ground Truth - A Chronic Lower Back Pain Case Study 98
Iris Ho, Paul Anderson, Jean Davidson, Jeffrey Lotz and Theresa Migler

AISS

Detecting Jailbreaking Prompts: an Anti-Persuasion Filter Framework 104
Giuseppe Fenza, Mariacristina Gallo, Vincenzo Loia, Alessandro Nicolosi and Claudio Stanzione

Beyond the Click: How YouTube Thumbnails Shape User Interaction and Algorithmic Recommendations 120
Divash Poudel, Mert Can Cakmak and Nitin Agarwal

A multi-aspect analysis of echo chambers on video-sharing social media.....	136
<i>Omran Berjawi, Danilo Cavaliere and Giuseppe Fenza</i>	
CantastorIA: Enhancing Audiobook Engagement through Adaptive Soundtracks and Voice Cloning.....	152
<i>Victoria Popa, Andrea Morelli, Christian Di Maio, Luca Dini, Cristian Cosci and Emanuele Perri</i>	
Geo-Localization Using Multimodal Large Language Models	158
<i>Lorenzo Alvisi</i>	
Popping the Social Bubble: Using AI to Increase Transparency in Harmful Content Moderation.....	162
<i>Argentina Anna Rescigno, Beatrice Melis, Francesco Di Cursi, Gianluca De Ninno, Gianmarco Pastore and Paolo De Biase</i>	

SMS

Bangla Emotion Detection Dataset With An Extended Taxonomy And Its Evaluation	167
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	
Homophily Detection in Opinion Dynamics from Reddit Discussions.....	183
<i>Carmela Bernardo, Dora Ricci and Francesco Vasca</i>	
SocialRec: User Activity Based Post Weighted Dynamic Personalized Post Recommendation System in Social Media	194
<i>Ismail Hossain, Sai Puppala, Md Jahangir Alam and Sajedul Talukder</i>	
FLASH: Federated Learning-Based LLMs for Advanced Query Processing in Social Networks through RAG	212
<i>Sai Puppala, Ismail Hossain, Jahangir Alam and Sajedul Talukder</i>	
4WHContext: A Context Based Hate Speech Detection Framework From Social Media Posts	225
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	
Measuring the Sociolinguistic Patterns of Climate Debate Polarization in the Facebook Context.....	241
<i>Luigi Arminio and Luca Rossi</i>	

Proceedings of the 2024 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2024)

LNSN, ASONAM 2024, Part II:

Table of Contents

SAFE-SN

Detecting and Measuring Anomalous Behaviors on YouTube	1
<i>Shadi Shajari, Ridwan Amure and Nitin Agarwal</i>	
Claim Verification Leveraging In-Context Learning and Retrieval Augmented Generation	17
<i>Giuseppe Fenza, Domenico Furno, Mariacristina Gallo, Vincenzo Loia and Pio Pasquale Trotta</i>	
Deepfake Media Forensics: State of the Art and Challenges Ahead	32
<i>Irene Amerini, Mauro Barni, Sebastiano Battiato, Paolo Bestagini, Giulia Boato, Tania Sari Bonaventura, Vittoria Bruni, Roberto Caldelli, Francesco De Natale, Rocco De Nicola, Luca Guarnera, Sara Mandelli, Gian Luca Marcialis, Marco Micheletto, Andrea Montibeller, Giulia Orrù, Alessandro Ortis, Pericle Perazzo, Giovanni Puglisi, Davide Salvi, Stefano Tubaro, Claudia Melis Tonti, Massimo Villari and Domenico Vitulano</i>	
Bipartite Graph Modeling for the Analysis of Fake News Propagation	48
<i>Carmela Bernardo, Marta Catillo, Antonio Pecchia, Francesco Vasca and Umberto Villano</i>	
Mining Likes and Transactions per User for Cross-Domain Product Recommendation in Social Network and E-Commerce	62
<i>Emmanuel Ainoo, Christie Ezeife and Abdulrauf Gidado</i>	
Beyond Likes: Enhancing Social Media Engagement Metrics.....	78
<i>Sara Lazzaro</i>	
A Router-based Parental Control Tool for Safe Social Network Usage.....	88
<i>Aurelio Loris Canino, Vincenzo De Angelis and Gianluca Lax</i>	

XVIII

Towards Systemic Risk Evaluation, Attribution, and Mitigation in Networked Systems: Work in Progress.....	98
<i>Vladimir Marbukh and Michael Marbukh</i>	
On Understanding the Dark Web through Graph Analytics	108
<i>Kleanti Bashalli, Alexandros Karakasidis, Sophia Karagiorgou and George Pantelis</i>	

REINFORCE

A Deep Neural Framework for Fault Detection in IoT-based Sensor Networks.....	118
<i>Simona Cicero, Massimo Guarascio, Antonio Guerrieri, Simone Mungari and Andrea Vinci</i>	
Combining Knowledge graph and LLM to extract thesaural relationship and concepts on Cybersecurity	134
<i>Elena Cardillo, Alessio Portaro and Maria Taverniti</i>	
A Thesaurus for the Cybersecurity domain to specialized knowledge management and indexing operations.....	150
<i>Claudia Lanza and Erika Pasceri</i>	
Sentiment Analysis for Early Warnings and Disaster Management: a Survey	160
<i>Raffaele Guarasci</i>	
Community Detection in Complex Networks exploiting Spectral Graph Sparsification for Efficient Disaster Response	173
<i>Annalisa Socievole and Clara Pizzuti</i>	
Graph Learning for Bidirectional Disease Tracing on Real Human Mobility Data ..	188
<i>Sofia Hurtado and Radu Marculescu</i>	
Turning Multidimensional Big Data Analytics into Practice: Design and Implementation of ClustCube Big-Data Tools in Real-Life Scenarios	204
<i>Alfredo Cuzzocrea, Abderraouf Hafsaoui and Ismail Benlaredj</i>	

HyperSCI

Fifty Shapes of Reddit: Do Pro-life Activists Have the Same Interaction Patterns of Gun Fanatics?	219
<i>Daniele De Vinco</i>	
Heuristics for the Influence Maximization Problem on Hypergraphs	227
<i>Vincenzo Auletta, Francesco Cauteruccio and Diodato Ferraoli</i>	

SI

Blocking Social Contagions via Dominating Sets Using a Modified Integer Linear Program Formulation.....	234
<i>Robert Bao, Chris Kuhlman and S. S. Ravi</i>	
Profit Maximization in Signed Social Networks	250
<i>Poonam Sharma and Suman Banerjee</i>	
Exploring Writing Style Consistency to Timely Identify Heterogeneous Social Bots	266
<i>Sonia Laudanna, Matteo Cardaioli, Andrea Di Sorbo, Corrado Aaron Visaggio and Mauro Conti</i>	

MSNDS

Learning Effectiveness of Natural Science Education in the Context of Social Networks: A Case Study of Plant Identification Application.....	276
<i>Chia Sung Yen and I-Hsien Ting</i>	
Applying Opinion Mining and Social Volume Analysis for Enhanced Visitor Relationship Management in A Museum: An Empirical Study.....	283
<i>I-Hsien Ting, Mei-Yun Hsu, Chia-Sung Yen and Chian-Hsueng Chao</i>	
Generative AI in ESG Reporting: A Systematic Review	295
<i>Jun-Yu Wu, Vidhya Nataraj and Min-Yuh Day</i>	
Research on the Detection and Rephrasing of Toxic Text Based on Large-scale Pre-training Language Models	310
<i>Shih-Hung Wu, Tsung Hsun Tsai and Ping-Hsuan Lee</i>	
A Successive Analysis of Online Networked Common Knowledge Experiments.....	324
<i>Hao He, Xueying Liu, Neil Kattampallil, Vicki Lancaster, Gizem Korkmaz, Chris Kuhlman and Xinwei Deng</i>	
EVOLVE: Predicting User Evolution and Network Dynamics in Social Media Using Fine-Tuned GPT-like Model	334
<i>Ismail Hossain, Sai Puppala, Md Jahangir Alam and Sajedul Talukder</i>	
CAMERA: Context Based Emotion Detection Framework And Its Evaluation	349
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	