

Proceedings of the 2025 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2025)

**Social Networks Analysis and Mining:
17th International Conference, ASONAM 2025,
Niagara Falls, Ontario, Canada, August 25-28, 2025,
Proceedings, Part I**

LNCS V1, ASONAM 2025, Part I

Table of Contents

Research

Multi-State Survival Framework for Modeling Sentiment Shifts in Social Media <i>Etienne Tajeuna</i>	1
COS-META: Enhancing Few-shot Node Classification with Contrastive Meta-Learning <i>Md. Sirajum Munir Prince and Renata Dividino</i>	16
Contrastive Cascade Graph Learning for Classifying Real and Synthetic Information Diffusion Patterns <i>Naoki Shibao and Sho Tsugawa</i>	31
A Fair Label Propagation Community Detection Algorithm <i>Glykeria Toulina and Panayiotis Tsaparas</i>	39
Generalizing Hypergraph Ego-Networks and their Temporal Stability <i>Francesco Cauteruccio, Salvatore Citraro, Andrea Failla and Giulio Rossetti</i>	49
ELRUHNA: Elimination Rule-based Hypergraph Alignment <i>Cameron Ibrahim, S M Ferdous, Ilya Safro, Marco Minutoli and Mahantesh Halappanavar</i>	64
Dynamic and Overlapping Community Detection in Link Streams through Formal Concept Analysis	79

Martin Waffo Kemgne, Christophe Demko, Jean-Loup Guillaume and Karell Bertet

Boosting Attributed Network Embeddings with Clustering89
Labiod Lazhar and Mohamed Nadif

**Developing a Commenter Behavior-based Framework for Characterizing
YouTube Channels97**
Shadi Shajari and Nitin Agarwal

**Evaluating Structural Attractors and Retainers in YouTube Recommendation
Networks112**
Md. Monoarul Islam Bhuiyan and Nitin Agarwal

**AdaptiSent: Context-Aware Adaptive Attention for Multimodal Aspect-Based
Sentiment Analysis.....127**
*S M Rafiuddin, Sadia Kamal, Mohammed Rakib, Arunkumar Bagavathi and
Atriya Sen*

**Efficient Influence Maximization in Signed Networks with Positive Influence
Increasing and Negative Influence Decreasing Simultaneously via Edge-view
Influence Estimation.....135**
Fu-Kai Chang, Shiou-Chi Li and Jen-Wei Huang

Simulating hashtag dynamics with networked groups of generative agents143
Abha Jha, Hunter Priniski, Carolyn Steinle and Fred Morstatter

**Modeling Cross-Platform Narrative Diffusion: A Multiplex Approach to
Information Spread in Social Media Ecosystems158**
Ridwan Amure and Nitin Agarwal

**A Network-Based Covariate Augmented Factorization Approach for Modeling
Facebook Common Knowledge Experiments166**
*Hao He, Xueying Liu, Neil Kattampallil, Vicki Lancaster, Gizem Korkmaz,
Chris Kuhlman and Xinwei Deng*

**Contagious rhythms: A wave-based epidemic approach for music virality on
social platforms174**
*Gabriel P. Oliveira, Luca Vassio, Ana Paula Couto Da Silva and Mirella M.
Moro*

**Graph-Based Approaches to Utilizing LLMs for Generation of Individualized
Student Learning Segments189**
*Terry Barnhouse, Jonathan Kasprisin, Paolo Singh, Joseph Young, Michael
Piscopo and Raluca Gera*

Temporal Motifs for Financial Networks: A Study on Mercari, JPMC, and Venmo Platforms	203
<i>Penghang Liu, Bahadir Altun, Rupam Acharyya, Robert Tillman, Shunya Kimura, Naoki Masuda and A. Erdem Sarıyüce</i>	
Say the Task, Build the Team: Prompt-Based Team Formation	218
<i>Lingling Zhang, Radin Hamidi Rad, Morteza Zihayat and Ebrahim Bagheri</i>	
Identification of Authoritative Nodes and Dismantling of Illicit Networks Using a Novel Metric for Measuring Strength of a Graph	233
<i>Kartikeya Kansal and Arun Sen</i>	
GraphRAG-based NLP at Risk: Graphemic Dot Level Adversarial Attack on Arabic Sentiment and LLM Retrieval Augmented Models.....	241
<i>Abdullah Melhem, Ahmed Aleroud and Craig Albert</i>	
LLM-Based Community Surveys for Operational Decision Making in Interconnected Utility Infrastructures.....	251
<i>Adaeze Okeukwu-Ogbonnaya, Rahul Amatapu, Jason Bergtold and George Amariuca</i>	
Can LLMs Reliably Label YouTube Videos? A Committee-Based Evaluation	261
<i>Adriano Mourthe, Carlos Eduardo Mello and Alipio Jorge</i>	
Multiview Commonsense Reasoning using LLMs for Understanding Crime Drama Series	269
<i>Muhammad Abdullah Zia, Sameen Mansha and Faisal Kamiran</i>	
Beliefs in Motion: Simulating Opinion Dynamics via LLM-Powered Community Reactions.....	284
<i>Xinyi Liu, Dachun Sun, Dilek Hakkani Tur and Tarek Abdelzaher</i>	
From Non-overlapping to Overlapping Communities	299
<i>Martin Waffo Kemgne, Antoine Huchet, Christophe Demko, Karell Bertet and Jean-Loup Guillaume</i>	
Temporal Motif Participation Profiles for Analyzing Node Similarity in Temporal Networks	314
<i>Maxwell Lee and Kevin S. Xu</i>	
Decentralized and Self-adaptive Core Maintenance on Temporal Graphs.....	329
<i>Davide Rucci, Emanuele Carlini, Patrizio Dazzi, Hanna Kavalionak and Matteo Mordacchini</i>	

Empathy between Neighboring Nations: Distance Matters	344
<i>Avik Chakrabarti, Clay Yoo and Ashiqur Khudabukhsh</i>	
Enhancing Regional Airbnb Trend Forecasting Using LLM-Based Embeddings of Accessibility and Human Mobility	358
<i>Hongju Lee, Youngjun Park, Jisun An and Dongman Lee</i>	
COGRAM: A Computational Pipeline for Genome Assembly and Reconstruction via Optimized K-mer Sampling and De Bruijn Graph Networks	373
<i>William Coggins and Vijayalakshmi Ramasamy</i>	
Discovering Linkages Among Multiple Disease Networks by Joint Clustering ..	381
<i>Nouf Albarakati, Hussain Otudi, Rafaa Aljurbua and Zoran Obradovic</i>	
GraphDPR: A Privacy Policy Analysis Framework Using Knowledge Graphs and Topic Modeling	389
<i>Himadri Chowdhury, Istiak Morsalin, Sumnan Azade, Vijayalakshmi Ramasamy and Gokila Dorai</i>	

Proceedings of the 2025 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2025)

**Social Networks Analysis and Mining:
17th International Conference, ASONAM 2025,
Niagara Falls, Ontario, Canada, August 25-28, 2025,
Proceedings, Part II**

LNCS V2, ASONAM 2025, Part II

Table of Contents

Research

Protecting Vulnerable Voices: Synthetic Dataset Generation for Self-Disclosure Detection	1
<i>Shalini Jangra, Suparna De, Nishanth Sastry and Saeed Fadaei</i>	
BotArtist: Generic approach for bot detection in Twitter via semi-automatic machine learning pipeline	16
<i>Alexander Shevtsov, Despoina Antonakaki, Ioannis Lamprou, Polyvios Pratikakis and Sotiris Ioannidis</i>	
Identifying Social Interaction Outliers with the Use of Network Analysis: Disk Decoration in the Middle Magdalenian Period	24
<i>Sakhawat Hossan, Jing Deng, Rebecca Schwendler and Charles P. Egeland</i>	
Can We Predict Your Next Move Without Breaking Your Privacy?	32
<i>Arpita Soni, Sahil Tripathi, Gautam Siddharth Kashyap, Manaswi Kulahara, Mohammad Anas Azeez, Zohaib Hasan Siddiqui, Nipun Joshi and Jiechao Gao</i>	
BGM-HAN: A Hierarchical Attention Network for Accurate and Fair Decision Assessment on Semi-Structured Profiles	40
<i>Junhua Liu, Roy Ka-Wei Lee and Kwan Hui Lim</i>	

Why I Took the Blackpill: A Thematic Analysis of the Radicalization Process in Incel Communities	55
<i>Jennifer Golbeck, Celia Chen and Alex Leitch</i>	
Who Leads in the Shadows? ERGM and Centrality Analysis of Congressional Democrats on Bluesky	63
<i>Gordon Hew and Ian McCulloh</i>	
Old Roots, Fresh Fruits: Clickbait Detection with Effective Model Design Choices on Social Media.....	71
<i>Yu-Min Tseng and Cheng-Te Li</i>	
Politicization During the 2024 United States Presidential Elections	81
<i>Marcelo Sartori Locatelli, Matheus Prado Miranda, Wagner Meira Jr. and Virgilio Almeida</i>	
Sentiment-Driven Differential Engagement: Hyperpartisan vs. Non-Hyperpartisan Users on X.....	96
<i>Alireza Mohammadinodooshan and Niklas Carlsson</i>	
Analysis of Cross-Platform Narrative Dissemination Through Contextual Focal Structures	113
<i>Ridwan Amure and Nitin Agarwal</i>	
Mitigating Bias for Unseen Demographic Groups in Graph Neural Networks.	121
<i>Francisco Santos, Pang-Ning Tan and Abdol-Hossein Esfahanian</i>	
Understanding Fairness-Accuracy Trade-offs in Machine Learning Models: Does Promoting Fairness Undermine Performance?	129
<i>Junhua Liu, Roy Ka-Wei Lee and Kwan Hui Lim</i>	
A Multi-Agent Reinforcement Learning-Based Framework for Forecasting Terrorist Collaboration and Predicting Future Alliances	137
<i>Vedat Dogan, Steven Prestwich and Barry O'Sullivan</i>	
MultiScale Spectral GNN for Fraud Detection	152
<i>Melike Yildiz Aktas, Mustafa Coskun and Chang-Tien Lu</i>	
Reducing Misclassification Risk in Dynamic Graph Neural Networks through Abstention	166
<i>Jayadratha Gayen, Himanshu Pal, Naresh Manwani and Charu Sharma</i>	
Federated k-Core Decomposition: A Secure Distributed Approach.....	181
<i>Bin Guo, Emil Sekerinski and Lingyang Chu</i>	

LineDi2Vec: An Edge-Based Graph Embedding on Signed Social Networks ...	196
<i>Chen Xing and Masoud Makrehchi</i>	
Clustering Dynamic Graphs using Time and Text Content	206
<i>Timothy La Fond, Eisha Nathan, Hannah Nyholm and Van Henson</i>	
GPSocio: A Transformer-based General-purpose Social Network Representation System	216
<i>Xinyi Liu, Dachun Sun and Tarek Abdelzaher</i>	
Disinformation Contagion: Integrating Data-Driven Insights with Theoretical Model.....	231
<i>Nitin Agarwal</i>	
From Inclusion to Contention: Analyzing DEI and “Woke” Narratives on Reddit	246
<i>Marcelo Sartori Locatelli, Arthur da Costa, Victor Thome, Marisa Vasconcelos and Virgilio Almeida</i>	
CommTox: Contextually-Aware Community Perceived Toxicity Classification	261
<i>Rhett Hanscom, Ayan Chowdhury, Shivakant Mishra, Qin Lv and Tamara Silbergleit Lehman</i>	
A Consent-Driven Model for Reducing Echo Chambers in Social Media.....	270
<i>Naomi Korem, Tammar Shrot and Hadassa Daltrophe</i>	
Modeling Toxicity Propagation in Social Networks with Weighted Focal Structure Analysis and Monte Carlo Epidemic Models.....	278
<i>Tope Christopher Falade and Nitin Agarwal</i>	
Dominance or Fair Play in Social Networks? A Model of Influencer Popularity Dynamics.....	286
<i>Franco Galante, Chiara Ravazzi, Luca Vassio, Michele Garetto and Emilio Leonardi</i>	
Justice for the Disadvantaged: A Study of Public Reactions on Indian Supreme Court Judgments.....	301
<i>Soumilya De, Soumyajit Datta, Koustav Rudra, Saptarshi Ghosh, Ashiqur R. Khudabukhsh and Kripabandhu Ghosh</i>	
In Bad Faith: Assessing Discussion Quality on Social Media	316
<i>Celia Chen, Alex Leitch, William Jordan Conway, Eric Cotugno, Emily Klein, Rajesh Kumar Gnanasekaran, Kristin Buckstad Hamilton, Cati Sherman, Celia Sterrn, Logan C. Stevens, Rebecca Zarrella and Jennifer Golbeck</i>	

VIII

Fair2Vec: Learning Fair and Topic-Aware Representations for Influencer Recommendation	324
<i>Arpan Dam, Sayan Pathak and Bivas Mitra</i>	
Duplicating Deceit: Inauthentic Behavior Among Indian Misinformation Duplicators on X/Twitter	339
<i>Ashfaq Ali Shafin and Bogdan Carbunar</i>	
Weak Links in LinkedIn: Enhancing Fake Profile Detection in the Age of LLMs	347
<i>Apoorva Gulati, Rajesh Kumar, Vinti Agarwal and Aditya Sharma</i>	
Handling Publication Imbalance for Effective Community Detection in Scholarly Networks	357
<i>Md Asaduzzaman Noor, John Sheppard and Jason Clark</i>	

Proceedings of the 2025 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2025)

**Social Networks Analysis and Mining:
17th International Conference, ASONAM 2025,
Niagara Falls, Ontario, Canada, August 25-28, 2025,
Proceedings, Part III**

LNCS V3, ASONAM 2025, Part III

Table of Contents

Multidisciplinary

GraphRAG-V: Fast Multi-Hop Retrieval via Text-Chunk Communities.....	1
<i>Tengkai Yu, Venkatesh Srinivasan and Alex Thomo</i>	
PATHS: Agent-Based Modeling of Homelessness Pathways	13
<i>Nowshin Tasnim, Khandker Sadia Rahman and Charalampos Chelmis</i>	
Public Sentiment Analysis Toward the Department of Education: A Social Media Study Using Topic Modeling and Sentiment Analysis.....	28
<i>Irma de la Pena, Manon Pilaud and Ian McCulloh</i>	
Detection of Suicidal Risk on Social Media: A Hybrid Model.....	36
<i>Zaihan Yang, Ryan Leonard, Hien Tran, Rory Driscoll and Chadbourne Davis</i>	
Fediverse Sharing: Cross-Platform Interaction Dynamics between Threads and Mastodon Users.....	46
<i>Ujun Jeong, Alimohammad Beigi, Anique Tahir, Susan Xu Tang, H. Russell Bernard and Huan Liu</i>	
Fact-Checking with Large Language Models via Cost-Effective First-Order Logic Reformulation.....	61
<i>Sara Asghari, Laks V.S. Lakshmanan, Venkatesh Srinivasan and Alex Thomo</i>	
The Persuasive Power of Visual Elements in Strategic Communication.....	75
<i>Sayantana Bhattacharya, Nitin Agarwal and Diwash Poudel</i>	

How Do Competing Narratives Spread? A Stance-Based Epidemiological Approach	90
<i>Mayor Inna Gurung and Nitin Agarwal</i>	
Exploring Gender Differences in Chronic Pain Discussions on Reddit	98
<i>Ancita Andrade, Tanvi Banerjee and Ramakrishna Mundugar</i>	
Can Honest Headlines Engage? Correcting Misleading Headlines to Improve Credibility, Comprehension, and Engagement	106
<i>Md Main Uddin Rony, Ronald Yaros and Naeemul Hassan</i>	
Enhancing Large Language Models for Arabic Dialects Using Knowledge-Based Rethinking and Contrastive Learning	114
<i>Abdulsalam Alharbi, Shoaib Jameel, Basem Suleiman and Imran Razzak</i>	
Analysis of User Temperament and Personality Traits in Social Media through Complex Networks.....	123
<i>Matheus Santos, Fabíola Pereira and Elaine Ribeiro</i>	

Industrial

A Scalable Approach to Marketing Funnel Modeling: Cross-Industry Insights from LinkedIn	131
<i>Chad Crowe and Margeret Hall</i>	
TrendScope: A Temporal Hypergraph Framework for Food Trend Discovery	146
<i>Lulwah Alkulaib</i>	
Discovering Root Causes of Risks Using Counterfactual Knowledge Graphs (CKG).....	158
<i>Ying Zhao, Gabino Mata, Jesse Zhou and Charles Zhou</i>	
Enumeration of Subgraph of Interest based on pruning	170
<i>Maxence Morin, Baptiste Hemery, Fabrice Jeanne and Estelle Pawlowski</i>	
TrackGAE: Tracking Dynamic Community Evolution with Graph Autoencoders	184
<i>Maroun Haddad and Mohamed Bouguessa</i>	
Social Engineering and Information System Security- A survey on the Necessity of Prevention	193
<i>Florence Sèdes and Jonathan Degrace</i>	

Data-Driven Social Signal Mining for Stock Return Modeling via LinkedIn Networks	208
<i>Behnaz Moradijamei, Nick Yennerell, Benjamin Scott, Luke Rogers and Aaron March</i>	

PhD

LLM-MAD: Multi-Agent LLM Reasoning for Multi-Modal Shilling Attack Detection in Online Platforms	223
<i>Dina Nawara and Rasha Kashef</i>	
Prompt-Augmented LLMs with RAG for Addressing Cold-Start and Sparsity in Online Recommender Systems	237
<i>Sarama Shehmir and Rasha Kashef</i>	
TempHypE: Time-Aware Hyperbolic Neural Ordinary Differential Equation (ODEs) Knowledge Graph Embeddings For Dynamic Link Prediction	252
<i>Amangel Bhullar and Ziad Kobti</i>	
Empowering Recommender Systems with Agentic AI: Towards Adaptive Online Personalization	267
<i>Ahmed Aly, Ahmed Ibrahim and Rasha Kashef</i>	
Benchmarking GNN and Graph Transformer Models for Dynamic Link Prediction.....	281
<i>Nahid Abdolrahmanpour Holagh</i>	
Session-Based Recommender Systems Enhanced with Anomaly Detection: A Comparative Study	289
<i>Bahareh Rahmatikargar</i>	
A multi-class centrality for transportation networks with heterogeneous agents	297
<i>William Weber and Mahendra Piraveenan</i>	
From Overload to Insight: A Network Science Approach to Personalized Literature Review	306
<i>Timothy James</i>	
Social Network Analysis on LiDAR Research Through Relationship of Institutions and Authors	310
<i>Imran Ashraf, Soojung Hur and Yongwan Park</i>	

FAB

Scoring the Impact of Unstructured Data Using Quantum Properties	315
<i>Ying Zhao and Charles Zhou</i>	
Set-Based Domain Analysis for Missing Value Imputation in GIS Data: A Clustering-Driven Approach	330
<i>Hamza Khyari and Salem Benferhat</i>	
Code Reviews on a Budget: Memory-Efficient Fine-Tuning with QLoRA and RAG for Big Code Applications	345
<i>Sumukh Naveen Aradhya, Melody Moh and Teng-Sheng Moh</i>	
Integration of Multi-Source Data for Wastewater Network Management	360
<i>Neda Mashhadi and Salem Benferhat</i>	
A methodology for analyzing financial needs hierarchy from social discussions using LLM	375
<i>Abhishek Jangra, Sachin Thukral, Arnab Chatterjee and Jayasree Raveendran</i>	
Multimodal Disaster-related Tweet Classification with Parameter-Efficient Fine-Tuning of Large Language Models	390
<i>Dongping Guo, Anh Tran, Xinli Xiao, Hongmin Li and Doina Caragea</i>	
Measuring Social Media Polarization Using Large Language Models and Heuristic Rules	405
<i>Jawad Chowdhury, Rezaur Rashid and Gabriel Terejanu</i>	
Which acts model transitions between different happiness states?	420
<i>Mayank Bhasin and Harshit</i>	
Simulating User Watch-Time to Investigate Bias in YouTube Shorts Recommendations	432
<i>Nitin Agarwal, Selim Dagtas and Mert Cakmak</i>	
Beyond Transformers: Leveraging Large Language Models and Encoder-Decoder Architectures for Emotion Detection in Low-Resource Language	440
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	

FOSINT-SI

Vendor-Specific Vulnerability Analysis: A 26-Year Study of CVE Distribution Patterns	452
<i>Yasamin Akrami, Melisa Sarıtaş, Malek Malkawi and Reda Alhadj</i>	
Strategic Steering of Large Language Models via Game-theoretic Action Space Optimization.....	466
<i>Samuel Lavebrink, Joel Brynielsson, Mika Cohen, Farzad Kamrani, Christoffer Limér, Madeleine Lindström and Marius Vangeli</i>	
Position Bias in LLMs for Critical Decision Support - A Case Study on Multiple Casualty Triage.....	481
<i>Ulrika Wickenberg-Bolin, Katie Cohen, Helena Björnesjö and Agnes Tegen</i>	
Automated Definition Generation for Online Jargon Analysis	494
<i>Helena Björnesjö, Axel Alness Borg, Katie Cohen, Björn Pelzer and Erik Wachtmeister</i>	
Outsmarting Willful-thinking Opponents: Bayesian Belief Revision for Adversarial Reasoning in Large Language Models.....	511
<i>Madeleine Lindström, Joel Brynielsson, Mika Cohen, Farzad Kamrani, Samuel Lavebrink, Christoffer Limér and Marius Vangeli</i>	

Proceedings of the 2025 International Conference on Advances in Social Networks Analysis and Mining (ASONAM 2025)

**Social Networks Analysis and Mining:
17th International Conference, ASONAM 2025,
Niagara Falls, Ontario, Canada, August 25-28, 2025,
Proceedings, Part IV**

LNSN V1, ASONAM 2025, Part IV:

Table of Contents

FOSINT-SI

Targets of Terrorgram The Who, What, and Where of Threatening Communication on Terrorgram.....	1
<i>Lukas Lundmark, Antonia Hamich Andersson, Lisa Kaati and Katie Cohen</i>	
Cross-Subreddit Behavior as Open-Source Indicators of Coordinated Influence: A Case Study of r/Sino & r/China	11
<i>Manon Pilaud and Ian McCulloh</i>	
When Words Become Warnings. Assessing Threatening Communication in Online Spaces.	19
<i>Lukas Lundmark, Lisa Kaati, James Silver and Amendra Shrestha</i>	

HIBIBI

Modelling effects of social network topology on opinion dynamics during the COVID-19 pandemic	29
<i>Junxiang Huang and Mikhail Prokopenko</i>	
Explainable Data-Driven Digital Twin for Stress Management.....	39
<i>Sandra Kumi, Richard K. Lomotey, Madhurima Ray, Emma Cunningham and Ralph Deters</i>	

Exploring gender-specific symptoms in coronary heart disease diagnosis.....	54
<i>Connor C.J. Hryhoruk, Carson K. Leung, Aila Nik and Kelly Villamayor</i>	
Enhancing Explainability in Knowledge Graph Construction for Healthcare Services Using Large Language Models	62
<i>Andrea Molinari and Simone Sandri</i>	
Fuzzy Consensus Clustering for Deep Learning Tuning. Taking Breast Cancer for Medical Diagnosis as a case	77
<i>Choukri Djellali, Mehdi Adda and Mohamed Tarik Moutacalli</i>	
Mislabeling Misinformation: Annotation Consistency Shapes Machine Learning for DIY Health Risks	85
<i>Manon Pilaud, Alexandra Berges and Ian McCulloh</i>	
On the Use of 3D Modeling, Reconstruction and Printing Techniques for the Development of an Ankle Bone Prosthesis	95
<i>Akram Ihram, Mohamed Salaheddine, Zineb Farahat, Nabila Zrira, Bahia El Abdi, Ibtissam Benmiloud and Nabil Ngote</i>	
Therapist by Chance: Investigating ChatGPT's Emotional and Mental Health Support via Sentiment Analysis on Social Networks.....	110
<i>Smita Ghosh, Xiaochen Luo, Jared Maeyama, Shiv Jhalani, Cj Oshiro, Tharun Venkatesh and Rushil Patel</i>	
De Novo Drug Design for Antipsychotics: A case study with Llama 3.2 1B	125
<i>Harshit and Mayank Bhasin</i>	

MSNDS

Using Large Language Model to Generate ESG Report for Healthcare Organizations in Taiwan	140
<i>Kuo-Chung Chu, Ying-Xuan Shen and Jakir Hossain Bhuiyan Masud</i>	
Shooting Stars: Predicting the NBA Gems of Tomorrow	152
<i>Neh Desai, Chirag Rathi and Ritu Chaturvedi</i>	
Profit-Oriented High Utility Sequential Recommendation in Big Dataset with Map Reduce.....	164
<i>Esther Umoh, Christie Ezeife and Ritu Chaturvedi</i>	
Exploring the Evolution of Recommender Systems Through Social Network Analysis	180
<i>Bahareh Rahmatikargar, Pooya Moradian Zadeh and Ziad Kobti</i>	

Fine-Tuning and Prompt-Based Methods for Temporal Reasoning in Multilingual Financial Texts.....	195
<i>Bor-Jen Chen, Wen-Hsin Hsiao, Hsin-Ting Lu and Min-Yuh Day</i>	
Speech Improvement by Multimodal Analysis	210
<i>Kazunori Minetaki and I-Hsien Ting</i>	
Investigating Algorithmic Bias in YouTube Shorts	225
<i>Nitin Agarwal, Mert Cakmak and Diwash Poudel</i>	
Flexible Adjustment of Feature Vector Correlations for Personalized Recommendations	240
<i>Tsuyoshi Yamashita and Kunitake Kaneko</i>	

HyperSCI

Detecting Patterns of Interaction in Temporal Hypergraphs via Edge Clustering	246
<i>Ryan DeWolfe and François Théberge</i>	
Evaluation of Genetic Algorithm and Decision Tree Optimizations for Anomaly Detection IDS.....	261
<i>Ali Gharaee and Hossein Gharaee Garakani</i>	
Beyond Pairwise Links: Hypergraph Modeling for Scientific Trend Forecasting	274
<i>Nithyasree Kusakula, Navyamsh Gangavaram, Liz Torres, Russell Funk and Mehmet Aktas</i>	

SMS

Analyzing the Discourse around Russo-Ukrainian war in Germany: Understanding Variances in Public Stances.....	289
<i>Kyoungin Baik and Jisu Kim</i>	
LinguaMark: Do Multimodal Models Speak Fairly? A Benchmark-Based Evaluation	298
<i>Ananya Raval, Aravind Narayanan, Vahid Reza Khazaie and Shaina Raza</i>	
EDCOC: Early Detection of Coordinated Online Community using Graph Neural Networks	313
<i>Hodaka Matsuzaki, Isao Karube and Junichi Hirayama</i>	

Real-Time Personalized Content Adaptation through Matrix Factorization and Context-Aware Federated Learning	328
<i>Sai Puppala, Ismail Hossain, Md Jahangir Alam and Sajedul Talukder</i>	

Privacy Control in Social Networks: Integrating Behavioral Patterns and Content Sensitivity for Audience Recommendation	343
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	

Deviance

Detecting Users Botness On Meetup.com	358
<i>Samer Al-Khateeb and Cameron Kelly</i>	

LLMs Against Digital Deviance: Scalable Hate Speech Detection in Low-Resource and Code-Mixed Social Media	369
<i>Md Jahangir Alam, Ismail Hossain, Sai Puppala and Sajedul Talukder</i>	

Toward Empathetic AI: Neural-Symbolic LLMs for Emotionally Aligned Conversations	380
<i>Ismail Hossain, Md Jahangir Alam, Sai Puppala and Sajedul Talukder</i>	

Advancing Hate Speech Detection with Transformers: Insights from the MetaHate	395
<i>Santosh Chapagain, Shah Muhammad Hamdi and Soukaina Filali Boubrahimi</i>	

Demo

A Social Data-Driven System for Identifying Estate-related Events and Topics	403
<i>Wenchuan Mu, Menglin Li and Kwan Hui Lim</i>	

CityHood: An Explainable Travel Recommender System for Cities and Neighborhoods	409
<i>Gustavo Santos, Myriam Delgado, Daniel Silver and Thiago Silva</i>	

Journal

Tracing the 2024 U.S. Election Debate on Telegram with LLMs and Graph Analysis	415
<i>Giordano Paoletti, Carlos H.G. Ferreira, Luca Vassio, Leonardo Rocha and Jussara M. Almeida</i>	

Leveraging Social Network Analysis and Mobility Data for Modeling Epidemic Spread in Urban Tourist Destinations	416
<i>Nitika Pathania, Brian Labus and Shaikh Arifuzzaman</i>	
Rocket-Crane Algorithm for the Feedback Arc Set Problem.....	417
<i>David Bader, Justin Ellis-Joyce, Gert-Jan Both, Srinivas C. Turaga, Harinarayan Asoori Sriram, Srijith Chinthalapudi and Zhihui Du</i>	
C-HDNet: A Fast Hyperdimensional Computing Based Method for Causal Effect Estimation from Networked Observational Data	418
<i>Abhishek Dalvi, Neil Ashtekar and Vasant Honavar</i>	
Exploring Emergent Topological Properties in Socio-Economic Networks through Learning	419
<i>Chanuka Karavita, Zehua Lyu, Dharshana Kasthurirathna and Mahendra Piraveenan</i>	
Engagement as a Predictor: Regression Insights from Facebook Activity During the Sudanese Revolution	420
<i>Mariam Elhussein</i>	
An LLM-Guided Framework for Link Prediction in Homogeneous Graphs	421
<i>Atul Kumar, Md Zamilur Rahman and Asish Mukhopadhyay</i>	
A High-Performance Evolutionary Multiobjective Community Detection Algorithm.....	422
<i>Guilherme Oliveira Santos, Lucas Salvado Veiria, Giulio Rossetti, Carlos Henrique Gomes Ferreira and Gladston Moreira</i>	
A Survey of Abusive Language Detection on Online Platforms: Policy Analysis and Neural Network Solutions.....	423
<i>Ahmadjamy Kohistani, Shachi Sharma and Muhammad Abulaish</i>	