Program of
ASONAM 2023 - FAB 2025 - FOSINT-SI 2025, HI-BI-BI 2025 and Workshops
All times in Eater Time Zone - GMT-6

August 25th

	Grand Ballroom	Drummond Room	Maple Room	Drummond Room
08:30 – 10:00				Tutorial
10:00 – 10:30	Coffee Break			
10:30 – 12:30	MSNDS - WS- Session I	PhD Track I	Deviance -WS - Session I	Tutorial
12:30 – 14:00	Lunch Break -			
14:00 – 16:00	MSNDS - WS- Session II	PhD Track II	HyperSCI - WS -Session I	Tutorial
16:00 – 16:30	Coffee Break			
16:30 – 18:30	SMS - WS - Session I	Demos Session		Tutorial
19:30 – 21:30	Reception			

August 26th

	Grand Ballroom	Drummond Room	Maple Room	Drummond Room
08:30 – 09:00	Opening Remaks from organizers			
09:00 – 10:00	Grand Ballroom Keynote I:			
10:00 – 10:20	Coffee Break			
10:20 – 12:00	Research - 1a (2R+2S)	Research - 1b (2R+2S)	Industrial Track I	FOSINT-SI I
12:00 – 14:00	Lunch Break -			
14:00 – 15:40	Research - 2a (2R+2S)	Research - 2b (2R+2S)	Industrial Track II	FOSINT-SI II
15:40 – 16:00	Coffee Break			
16:00 – 17:30	Research - 3a (2R+2S)	Research - 3b (2R+2S)	Multidisciplinary I	FAB I

August 27th

	Grand Ballroom	Drummond Room	Maple Room	Drummond Room
09:00 – 10:00	Grand Ballroom Keynote II:			
10:00 – 10:30	Coffee Break			
10:30 – 12:30	Research - 4a (2R+2S)	Research - 4b (2R+2S)	Multidisciplinary II	FAB II
12:30 – 14:00	Lunch Break -			
14:00 – 16:00	Research - 5a (2R+2S)	Research - 5b (2R+2S)	Multidisciplinary III	FAB III
16:00 – 16:30	Coffee Break			
16:30 – 18:00	Panel: LLM influence on social networking and social media (tentative)			
19:30 – 22:00	Banquet + Awards Ceremony			

August 28th

	Grand Ballroom	Drummond Room	Maple Room	Drummond Room
08:30 – 09:30	Grand Ballroom Keynote III:			
09:30 – 10:00	Coffee Break			
10:00 – 12:00	Research - 6a (3R+3S)	Research - 6b (3R+3S)	Journal Track I	HIBIBI I
12:00 – 14:00	Lunch Break -			
14:00 – 15:30	Research - 7a (2R+2S)	Research - 7b (2R+2S)	Journal Track II	HIBIBI II
15:30 – 16:00	Coffee Break			
16:00 – 17:30	Research - 8a (2R+2S)	Research - 8b (2R+2S)		
17:30	Grand Ballroom Closing Remaks from organizers			

Please note that sessions of other tracks, symposiums, and workshops will be added soon

Date: August 26

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Graph Algorithms & Learning (1)	Research - 1a	10:20 – 12:00	Etienne Tajeuna	Multi-State Survival Framework for Modeling Sentiment Shifts in Social Media	Full	30
			Md. Sirajum Munir Prince and Renata Dividino	COS-META: Enhancing Few-shot Node Classification with Contrastive Meta-Learning	Full	30
			Md Asaduzzaman Noor,John Sheppardand Jason Clark	Handling Publication Imbalance for Effective Community Detection in Scholarly Networks	Short	20
			Glykeria Toulina and Panayiotis Tsaparas	A fair label propagation community detection algorithm	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Graph Algorithms & Learning (2)	Research - 2a	14:00 – 15:40	Francesco Cauteruccio, Salvatore Citraro, Andrea Failla andGiulio Rossetti	Generalizing Hypergraph Ego-Networks and their Temporal Stability	Full	30
			Cameron Ibrahim, S M Ferdous,Ilya Safro, Marco Minutoli and Mahantesh Halappanavar	ELRUHNA: Elimination Rule-based Hypergraph Alignment	Full	30
			Martin Waffo Kemgne, Christophe Demko,Jean-Loup Guillaumeand Karell Bertet	Dynamic and Overlapping Community Detection in Link Streams through Formal Concept Analysis	Short	20
			Lazhar Labiodand Mohamed Nadif	Boosting Attributed Network Embeddings with Clustering	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Graph Algorithms & Learning (3)	Research - 3a	16:00 – 17:30	Vedat Dogan, Steven Prestwich and Barry O'Sullivan	A Multi-Agent Reinforcement Learning-Based Framework for Forecasting Terrorist Collaboration and Predicting Future Alliances	Full	30
			Melike Yildiz Aktas, Mustafa Coskun andChang-Tien Lu	MultiScale Spectral GNN for Fraud Detection	Full	30
			Davide Rucci, Emanuele Carlini, Patrizio Dazzi, Hanna Kavalionak and Matteo Mordacchini	Decentralized and Self-adaptive Core Maintenance on Temporal Graphs	Full	30

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Social Media & Online Behavior (1)	Research - 1b	10:20 – 12:00	Gabriel P. Oliveira, Luca Vassio, Ana Paula Couto da Silva andMirella M. Moro	Contagious rhythms: A wave-based epidemic approach for music virality on social platforms	Full	30
			Md. Monoarul Bhuiyan andNitin Agarwal	Evaluating Structural Attractors and Retainers in YouTube Recommendation Networks	Full	30
			S M Rafiuddin, Sadia Kamal, Mohammed Rakib, Arunkumar Bagavathi and Atriya Sen	AdaptiSent: Context-Aware Adaptive Attention for Multimodal Aspect-Based Sentiment Analysis	Short	20
			Fu-Kai Chang, Shiou-Chi Li and Jen-Wei Huang	Efficient Influence Maximization in Signed Networks with Positive Influence Increasing and Negative Influence Decreasing Simultaneously via Edge-view Influence Estimation	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Social Media & Online Behavior (2)	Research - 2b	14:00 – 15:40	Shadi Shajari andNitin Agarwal	Developing a Commenter Behavior-based Framework for Characterizing YouTube Channels	Full	30
			Abha Jha, Hunter Priniski, Carolyn Steinle an	Simulating hashtag dynamics with networked groups of generative agents	Full	30
			Ridwan Amure andNitin Agarwal	Modeling Cross-Platform Narrative Diffusion: A Multiplex Approach to Information Spread in Social Media Ecosystems	Short	20

			Hao He, Xueying Liu, Neil Kattampallil, Vicki	A Network-Based Covariate Augmented Factorization Approach for Modeling Facebook Common Knowledge Experiments	Short	20

Social Media & Online Behavior (3)	Research - 3b	16:00 – 17:30	Feiyang Ren	User Behavior Participation? The Digital Performance and Identity Crisis in Annual Reports of Social Media Platforms	Full	30
			Jennifer Golbeck, Celia Chen and Alex Leitch	"Why I Took the Blackpill": A Thematic Analysis of the Radicalization Process in Incel Communities	Short	20
			Yu-Min Tseng and Cheng-Te Li	"Old Roots, Fresh Fruits: Clickbait Detection with Effective Model Design Choices on Social Media"	Short	20
			Gordon Hew andIan McCulloh	Who Leads in the Shadows? ERGM and Centrality Analysis of Congressional Democrats on Bluesky	Short	20

Date: August 27

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
LLMs in Network Analysis (1)	Research - 4a	10:30 – 12:30	Shalini Shalini, Suparna De, Nishanth Sastry and Saeed Fadaei	Protecting Vulnerable Voices: Synthetic Dataset Generation for Self-Disclosure Detection	Full	30
			Bishanka Seal,Abhilash NandyandPawan Goyal	Leveraging Large Language Models for Predictive Analysis of Human Misery	Full	30
			Muhammad Abdullah Zia,Sameen ManshaandFaisal Kamiran	Multiview Commonsense Reasoning using LLMs for Understanding Crime Drama Series	Full	30
			Terry Barnhouse, Jonathan Kasprisin, Paolo Singh, Joseph Young, Michael	Graph-Based Approaches to Utilizing LLMs for Generation of Individualized Student Learning Segments	Full	30

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minute
LLMs in Network Analysis (2)	Research - 5a	14:00 – 16:00	Lingling Zhang, Radin Hamidi Rad, Morteza Zihayat and Ebrahim Bagheri	"Say the Task, Build the Team: Prompt-Based Team Formation"	Full	30
			Xinyi Liu, Dachun Sun, Dilek Hakkani Tur and Tarek Abdelzaher	Beliefs in Motion: Simulating Opinion Dynamics via LLM-Powered Community Reactions	Full	30
			Abdullah Melhem, Ahmed Aleroud and Craig Albert	GraphRAG-based NLP at Risk: Graphemic Dot-Level Adversarial Attack on Arabic Sentiment and LLM Retrieval-Augmented Models	Short	20
			Adaeze Okeukwu-Ogbonnaya, Rahul Amatapu, Jason Bergtold and George Amariucai	LLM-Based Community Surveys for Operational Decision Making in Interconnected Utility Infrastructures	Short	20
			Adriano Mourthe and Carlos Eduardo Mello	Can LLMs Reliably Label YouTube Videos? A Committee-Based Evaluation	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minute
Domain-Specific & Novel Methods	Research - 4b	10:30 – 12:30	Avik Chakrabarti, Clay Yoo and Ashiqur Khudabukhsh	Empathy between Neighboring Nations: Distance Matters	Full	30
			Hongju Lee, Youngjun Park, Jisun An and Dongman Lee	Enhancing Regional Airbnb Trend Forecasting Using LLM-Based Embeddings of Accessibility and Human Mobility	Full	30
			William Coggins andVijayalakshmi Ramasamy	COGRAM: A Computational Pipeline for Genome Assembly and Reconstruction via Optimized K-mer Sampling and De Bruijn Graph Networks	Short	20
			Nouf Albarakati, Zoran Obradovic, Hussain Otudi and Rafaa Aljurbua	Discovering Linkages Among Multiple Disease Networks by Joint Clustering	Short	20
			Sakhawat Hossan, Jing Deng, Rebecca Schwendler and Charles P. Egeland	Identifying Social Interaction Outliers with the Use of Network Analysis: Disk Decoration in the Middle Magdalenian Period	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minute
			Penghang Liu, Bahadir Altun, Rupam Acharyya, Robert Tillman, Shunya Kimura, Naoki Masuda and A. Erdem Sarıyüce	"Temporal Motifs for Financial Networks: A Study on Mercari, JPMC, and Venmo Platforms"	Full	30
			Alexander Shevtsov, Despoina Antonakaki, Ioannis Lamprou, Polyvios Pratikakis and Sotiris Ioannidis	BotArtist: Generic approach for bot detection in Twitter via semi-automatic machine learning pipeline	Short	20

Privacy, Security & Ethics	Research - 5b	14:00 – 16:00	Kartikeya Kansal and Arunabha Sen	Identification of Authoritative Nodes and Dismantling of Illicit Networks Using a Novel Metric for Measuring Strength of a Graph	Short	20
			Himadri Chowdhury, Md Istiak Morsalin, Rafe Azade,Vijayalakshmi Ramasamyand Gokila Dorai	GraphDPR: A Privacy Policy Analysis Framework Using Knowledge Graphs and Topic Modeling	Short	20
			Arpita Soni, Sahil Tripathi, Gautam Siddharth Kashyap, Manaswi Kulahara, Mohammad Anas Azeez, Zohaib Hasan Siddiqui, Nipun Joshi and Jiechao Gao	Can We Predict Your Next Move Without Breaking Your Privacy?	Short	20

Date: August 28

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Social Media & Fairness (4)	Research - 6a	10:00 – 12:00	Marcelo Sartori Locatelli, Matheus Prado Miranda,Wagner Meira Jr.andVirgilio Almeida	Politicization During the 2024 United States Presidential Elections	Full	30
			Alireza MohammadinodooshanandNiklas Carlsson	Sentiment-Driven Differential Engagement: Hyperpartisan vs. Non-Hyperpartisan Users on X	Full	30
			Ridwan Amure andNitin Agarwal	Analysis of Cross-Platform Narrative Dissemination Through Contextual Focal Structures	Short	20
			Francisco Santos, Pang-Ning Tan and Abdol-Hossein Esfahanian	Mitigating Bias for Unseen Demographic Groups in Graph Neural Networks	Short	20
			Junhua Liu,Roy Ka-Wei LeeandKwan Hui Lim	Understanding Fairness-Accuracy Trade-offs in Machine Learning Models: Does Promoting Fairness Undermine Performance?	Shortt	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Graph Algorithms & Learning (4)	Research - 7a	14:00 – 15:30	Martin Waffo Kemgne,Antoine Huchet,Christophe Demko, Karell Bertet andJean-Loup Guillaume	From Non-overlapping to Overlapping Communities	Full	30
			Jayadratha Gayen, Himanshu Pal,Naresh ManwaniandCharu Sharma	Reducing Misclassification Risk in Dynamic Graph Neural Networks through Abstention	Full	30
			Maxwell Lee andKevin S. Xu	Temporal Motif Participation Profiles for Analyzing Node Similarity in Temporal Networks	Full	30

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Graph Algorithms & Learning (5)	Research - 8a	16:00 – 17:30	Xinyi Liu, Dachun Sun and Tarek Abdelzaher	GPSocio: A Transformer-based General-purpose Social Network Representation System	Full	30
			Chen Xing and Masoud Makrehchi	LineDi2Vec: An Edge-Based Graph Embedding on Signed Social Networks	Short	20
			Timothy La Fond, Eisha Nathan, Hannah Nyholm and Van Henson	Clustering Dynamic Graphs using Time and Text Content	Short	20
			Naoki Shibao and Sho Tsugawa	Contrastive Cascade Graph Learning for Classifying Real and Synthetic Information Diffusion Patterns	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Misinformation, Toxicity & Moderation (1)	Research - 6b	10:00 – 12:00	Emmanuel Addai andNitin Agarwal	Disinformation Contagion: Integrating Data-Driven Insights with Theoretical Model	Full	30
			Marcelo Sartori Locatelli, Arthur S. da Costa, Victor Thome, Marisa Vasconcelos andVirgilio Almeida	From Inclusion to Contention: Analyzing DEI and "Woke" Narratives on Reddit	Full	30
			Rhett Hanscom, Ayan Chowdhury, Tamara Lehman, Shivakant Mishra and Qin Lv	CommTox: Contextually-Aware Community Perceived Toxicity Classification	Short	20
			Naomi Korem, Tammar Shrot andHadassa Daltrophe	A Consent-Driven Model for Reducing Echo Chambers in Social Media	Short	20
			Apoorva Gulati, Rajesh Kumar, Vinti Agarwal and Aditya Sharma	Weak Links in LinkedIn: Enhancing Fake Profile Detection in the Age of LLMs	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Misinformation, Toxicity & Moderation (2)	Research - 7b	14:00 – 15:30	Soumilya De, Soumyajit Datta,Koustav Rudra,Saptarshi Ghosh,Ashiqur R. KhudabukhshandKripabandhu Ghosh	Justice for the Disadvantaged: A Study of Public Reactions on Indian Supreme Court Judgments	Full	30
			Celia Chen,Alex Leitch, William Jordan Conway, Eric Cotugno, Emily Klein, Rajesh Kumar Gnanasekaran, Kristin Buckstad Hamilton, Casi Sherman, Celia Sterrn, Logan C. Stevens, Rebecca Zarrella andJennifer Golbeck	In Bad Faith: Assessing Discussion Quality on Social Media	Short	20
			Ashfaq Ali Shafin and Bogdan Carbunar	Duplicating Deceit: Inauthentic Behavior Among Indian Misinformation Duplicators on X/Twitter	Short	20
			Tope Falade andNitin Agarwal	Modeling Toxicity Propagation in Social Networks with Weighted Focal Structure Analysis and Monte Carlo Epidemic Models	Short	20

SessionTItle	Session ID	Session Time	Authors	Title	Type	Minutes
Fairness & Bias	Research - 8b	16:00 – 17:30	Arpan Dam, Sayan Pathak and Bivas Mitra	Fair2Vec: Learning Fair and Topic-Aware Representations for Influencer Recommendation	Full	30
			Junhua Liu,Roy Ka-Wei LeeandKwan Hui Lim	BGM-HAN: A Hierarchical Attention Network for Accurate and Fair Decision Assessment on Semi-Structured Profiles	Full	30
			Franco Galante, Chiara Ravazzi, Luca Vassio, Miche	Dominance or Fair Play in Social Networks? A Model of Influencer Popularity Dynamics	Full	30