Program of
ASONAM 2026 - FAB 2026 - FOSINT-SI 2026, HI-BI-BI 2026 and Workshops

Research Track Sessions at a Glance

Rabat, Morocco | 14 sessions | 30 full + 34 short = 1580 min | 2 parallel tracks

All times in Morocco Time Zone - GMT + 1

Rabat, Morocco | 14 sessions | 30 full + 34 short = 1580 min | 2 parallel tracks

August 24th

Day	Time	Activity	
	8:00	**Registration**	
	10:00 - 10:30	**Coffee Break**	
	10:30 - 16:00	**Workshops / Tutorials / PhD Track**	
	19:30 – 21:30	**Reception**	
Day	**Time**	**Track A -- Room: SP**	**Track B -- Room: RG1**
	8:00	**Registration**	
	8:30 - 9:15	**Opening Ceremony -- Room: AMP**	
Day 1 - 25 August 2026	09:15 - 10:15	**Keynote 1 - Prof. Huan Liu (Arizona State University, USA): "Interdisciplinary Intelligence: AI, Data, and Social Sciences in Dialogue" Chair: Aijun An-- Room: AMP**	
	10:15 - 10:40	**Coffee Break**	
	10:40 - 12:40	Research-1 (2R+3S) - 120min Misinformation & Fact-Checking	Research-2 (2R+3S) - 120min Narratives, Influence Ops & Coordination
	12:40 - 14:00	**Lunch Break**	
	14:00 - 16:00	Research-3 (3R+1S) - 110min Scholarly Networks & Graph Summarization	Research-4 (3R+1S) - 110min Hypergraphs, Higher-Order & Community Structure
	Starting from 16:00	**Tour of Rabat**	
	8:30	**Registration**	
Day 2 - 26 August 2026	09:00 - 10:00	**Keynote 2 - Prof. Nadia Berthouze (University College London, UK): "Embodied Social Behaviour: Affective Computing and Body Sensing for Health and Wellbeing" Chair: Jundong Li -- Room: AMP**	
	10:00 - 10:30	**Coffee Break**	
	10:30 - 12:30	Research-5 (1R+4S) - 110min Graph Neural Networks & Representation Learning	Research-6 (2R+3S) - 120min Anomaly, Fraud & Bot Detection
	12:30 - 14:00	**Lunch Break**	
	14:00 - 16:00	Research-7 (2R+3S) - 120min Temporal & Dynamic Graph Learning	Research-8 (2R+3S) - 120min LLMs, Retrieval & Learning on Networks
	16:00 - 16:30	**Coffee Break**	

Day 2 - 26 August 2026	16:30 - 18:00	**Panel Session -- Room: AMP "The Impact of AI-driven Social Networks and Media Platforms on Society and Individuals" Panelists: Nadia Berthouze, Nitesh Chawla, Jimmy Huang, Jundong Li, Huan Liu, and Osmar Zaïane**	
	19:30 – 22:00	**Banquet + Awards Ceremony**	
Day 3 - 27 August 2026	**8:30**	**Registration**	
	09:00 - 10:00	**"Keynote 3 - Prof. Nitesh Chawla (University of Notre Dame, USA): "Mind the Gap: Grounding Foundation Models with Local Context for Real-World Applications" Chair: Joel Brynielsson -- Room: AMP**	
	10:00 - 10:30	**Coffee Break**	
	10:30 - 12:30	Research-9 (2R+3S) - 120min Bias, Sentiment & Signed Networks	Research-10 (2R+3S) - 120min Social Media Analytics & Online Behavior
	12:30 - 14:00	**Lunch Break**	
	14:00 - 16:00	Research-11 (3R+1S) - 110min Community Detection & Clustering	Research-12 (2R+3S) - 120min Crisis, Computational Social Science & Applications
	16:00 - 16:30	**Coffee Break**	
	16:30 - 18:00	Research-13 (1R+3S) - 90min Hate Speech, Toxicity & Cyberbullying	Research-14 (3R) - 90min Influence, Diffusion & Network Structure
	18:00	**Closing Remaks from the organizers**	

Program of
ASONAM 2026 - FAB 2026 - FOSINT-SI 2026, HI-BI-BI 2026 and Workshops

Industrial Track, Multidisciplinary Track, PhD Track, FAB, FOSINT-SI, HI-BI-BI, Tutorials and Workshops Sessions at a Glance

All times in Morocco Time Zone - GMT + 1

August 24th

8:30	**Registration**			
	Room: RG1	**Room: RG2**	**Room: RG3**	**Room: RG4**
10:00 – 10:30	**Coffee Break**			
10:30 – 12:30	Workshop Session I	PhD Track I	Workshop Session III	
12:30 – 14:00	**Lunch Break -**			
14:00 – 16:00	Workshop Session II	PhD Track II	Workshop Session IV	Tutorial
19:30 – 21:30	**Reception**			

August 25th

8:00	**Registration**			
8:30 - 9:15	**Opening Ceremony**			
09:15 - 10:15	**Keynote 1 - Prof. Huan Liu (Arizona State University, USA): "Interdisciplinary Intelligence: AI, Data, and Social Sciences in Dialogue"**			
10:15 - 10:40	**Coffee Break**			
		Room: RG2	**Room: RG3**	**Room: RG4**
10:40 - 12:40		Multidisciplinary I	Journal Track I	FOSINT-SI I
12:40 - 14:00	**Lunch Break -**			
14:00 - 16:00		Multidisciplinary II	Journal Track II	FOSINT-SI II
Starting from 16:00	**Tour of Rabat**			

August 26th

8:30	**Registration**			
09:00 - 10:00	**"Keynote 2 - Prof. Nadia Berthouze (University College London, UK): "Embodied Social Behaviour: Affective Computing and Body Sensing for Health and Wellbeing""**			
10:00 – 10:30	**Coffee Break**			
		Room: RG2	**Room: RG3**	**Room: RG4**
10:30 – 12:30		Multidisciplinary III	Journal Track III	FAB I
12:30 – 14:00	**Lunch Break -**			
14:00 – 16:00		Multidisciplinary IV	Industrial Track I	FAB II
16:30 - 18:00	**Panel Session "The Impact of AI-driven Social Networks and Media Platforms on Society and Individuals" Panelists: Nadia Berthouze, Nitesh Chawla, Jimmy Huang, Jundong Li, Huan Liu, and Osmar Zaïane+B61**			
19:30 – 21:30	**Banquet + Awards Ceremony**			

August 27th

8:30	**Registration**			
	Room C-TBD1	**Room C-TBD2**	**Room C-TBD3**	**Room C-TBD4**
09:00 - 10:00	**"Keynote 3 - Prof. Nitesh Chawla (University of Notre Dame, USA): "Mind the Gap: Grounding Foundation Models with Local Context for Real-World Applications""**			
10:00 - 10:30	**Coffee Break**			
		Room: RG2	**Room: RG3**	**Room: RG4**
10:30 - 12:30		HIBIBI I	Industrial Track II	FAB III
12:30 - 14:00	**Lunch Break -**			
14:00 - 16:00		HIBIBI II	Industrial Track III	FOSINT-SI III
16:00 - 16:30	**Coffee Break**			
16:30 - 18:00		HIBIBI III	Industrial Track IV	Demos
18:00	**Closing Remaks from the organizers**			

Room	Zoom Link
AMP lecture theatre	https://ucalgary.zoom.us/j/98923327844
SP: multi-purpose hall	https://ucalgary.zoom.us/j/98923327844
RG1: Department of Geology	https://ucalgary.zoom.us/s/92603882031
RG2: Department of Geology	https://ucalgary.zoom.us/j/92756041977
RG3: Department of Geology	https://ucalgary.zoom.us/s/98182517647
RG4: Department of Geology	https://ucalgary.zoom.us/s/92969545275

All sessions will be broadcasted online during the conference.

Speakers who have been approved for online presentation should do the following:

1. Connect online at least during their session and inform the session chair before the start of the session that they are available for the presentation
2. Once their turn comes, share their slides and present
3. Make themselves available for answering questions after the presentation

Session Chairs:

To handle the session successfully as planned, please keep in mind the following:

1. Check the zoom connection for online preentations and make sure all online presenters are available
2. Start by having all in person preenters go first then use the zoom link for the online presenters
3. Keep track of all no shows and report them to the organizers by emailing kawash@ucalgary.ca, diaylosteiman@gmail.com

Session Title	Session ID	Session Time	Chair	Authors	Title	Type	Minutes
Misinformation & Fact-Checking	Research - 1 (2R+3S)	25 August 2026 10:30 - 12:30	Samin Aref	Marius-Vasile Macarie et al.	CHRONO-HyperECA: Auditable Higher-Order Propagation for Misinformation and Rumour Detection	Full	30
				Harith Alani and Gregoire Burel	Resistance in the Wild: Reactions to Automated Corrections of False Claims on Platform X	Full	30
				Sinclair Schneider et al.	LLM-based Detection of Manipulative Political Narratives	Short	20
				Joosung Kim et al.	Peak-DNA: Recurrent Morphology in Global Narrative Propagation	Short	20
				Luigi Lomasto et al.	Exploring Network-Aware Intervention Policies for Information Disorder in Social Networks: A Simulation-Based Framework	Short	20
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Narratives, Influence Ops & Coordination	Research - 2 (2R+3S)	25 August 2026 10:30 - 12:30	Francesco Cauteruccio	Ridwan Amure and Nitin Agarwal	Forecasting Cross-Platform Narrative Trajectories: A Temporal Modeling Framework	Full	30
				Nitin Agarwal et al.	How Symbolic Structures Shape Narrative Diffusion: Lessons from 2025 Indonesian Protests	Short	20
				Ridwan Amure and Nitin Agarwal	Multiplex CI-FSA: Towards Scalable Discovery of Influential Focal Structures in Multiplex Networks	Short	20
				Hadhami ELOUNI et al.	PERLE : A Rule-Based Interpretable Approach for Detecting Peer Effects	Short	20
				Mohammad Hammas Saeed et al.	ALETHEIA: Combating Social Media Influence Campaigns with Graph Neural Networks	Full	30
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Scholarly Networks & Graph Summarization	Research - 3 (3R+1S)	25 August 2026 14:00 - 16:00	Pooya Moradian Zadeh	Ryotaro Matsuo and Ryo Nakamura	Evaluating the Effectiveness of Graph Summarization under Partial Observation	Full	30
				Zhao Song et al.	Which Coauthor Should I Nominate in My 99 ICLR Submissions? A Mathematical Analysis of the ICLR 2026 Reciprocal Reviewer Nomination Policy	Full	30
				Maddalena Amendola et al.	Analyzing Gender Representation in Expert Finding Methods for Community Q&A	Full	30
				Ghazal Khodabandeh et al.	Auditing Semantic and Structural Representations for Patent Outcome Prediction in Heterogeneous Temporal Networks	Short	20

Session Title	Session ID	Session Time		Authors	Title	Type	Minutes
Hypergraphs & Higher-Order Networks	Research - 4 (3R+1S)	25 August 2026 14:00 - 16:00	Riccardo Porcedda	Vincenzo Auletta et al.	Marginal Cohesion Centrality: Identifying Glue Nodes in Hypergraphs	Full	30
				Bram Mornie et al.	Efficient Counting of Higher-Order Network Motifs in Large Hypergraphs	Full	30
				Pedro Henrique Ruas et al.	Tridimensional Social Network Search and Clustering	Full	30
				Zihe Zhou and Samin Aref	Highway Algorithm: Overlapping Network Community Detection at Scale Using Sparse Backbones	Short	20
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Graph Neural Networks & Representation Learning	Research - 5 (1R+4S)	26 August 2026 10:30 - 12:30	Anastasiia Potiagalova	Achraf Ikisse et al.	PrivacyGuard: Graph-Based Data Leakage Detection in P4-Enabled SDN	Full	30
				Ziv Barretto et al.	From Legal Text to Legal Graphs: Judgment Prediction with Graph Neural Networks	Short	20
				Amin Mahmoudi and Dariusz Jemielniak	A Dynamical Systems Perspective on Oversmoothing in Graph Neural Networks	Short	20
				Gian Franco Joel Condori Luna et al.	Mining Urban Epidemiological Networks: Risk-Aware KG-GNN Embeddings for Vaccination Site Optimization [REMOTE]	Short	20
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Anomaly, Fraud & Bot Detection	Research - 6 (2R+3S)	26 August 2026 10:30 - 12:30	Omair Shafiq	Fatemeh Gholamzadeh Nasrabadi et al.	From Flow to Features: Directed Learnable Positional Encodings for Anti-Money Laundering in Transaction Networks	Full	30
				Pedro Sanvido and Isabel Manssour	BotCompletion: Optimizing Context and Instructions for LLM-Based Bot Detection	Full	30
				oumaima FADI et al.	Smart Contract Anomaly Detection: The LLM Era	Short	20
				Gheida Shahrour et al.	Ghost in the Data: A Multi-Signal Detection System for Synthetic Accounts & Churn Distortion in CQA Platforms	Short	20
				JongHwi Song	Structural and Behavioral Analysis of Moltbook: A Comparative Study with Reddit [REMOTE]	Short	20

Session Title	Session ID	Session Time		Authors	Title	Type	Minutes
Temporal & Dynamic Graph Learning	Research - 7 (2R+3S)	26 August 2026 14:00 - 16:00	Paola Vocca	Namrata Banerji and Tanya Berger-Wolf	DynaSTy: A Framework for SpatioTemporal Node Attribute Prediction in Dynamic Graphs	Full	30
				Mehdi Naima et al.	RLDetect : Random Link Detection in Link Streams	Full	30
				Nahid Abdolrahmanpour Holagh et al.	Sem2Edge: Semantic–Structural Temporal Modeling for Dynamic Link Prediction	Short	20
				Sara Abagnale et al.	A Framework for Efficient Semantic and Structural Analysis of Decentralized Social Networks	Short	20
				Aravinda Jatavallabha et al.	Dynamic Graph Representation Learning using Temporal and Topological Information	Short	20
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
LLMs, Retrieval & Learning on Networks	Research - 8 (2R+3S)	26 August 2026 14:00 - 16:00	Hande McGinty	Hao He et al.	Collaborative Spatial Learning with Multi-LLM Agents in Networked Social Experiments	Full	30
				Hodaka Matsuzaki et al.	Inductive Community-Graph Learning for Cross-Domain Detection of Malicious Coordinated Communities	Full	30
				Minh-Hao Van and Xintao Wu	Mitigating Hateful Content in Multimodal Memes with Vision-Language Models	Short	20
				Ranmaru Ishikawa et al.	Efficient Graph-Based Retrieval for LLMs via TF-IDF Hypergraphs	Short	20
				Koki Inoue et al.	Country Classification via Collective Decision Making over Segmented Image Geolocations	Short	20
Panel Session 26 August 2026 16:30 - 18:00				"The Impact of AI-driven Social Networks and Media Platforms on Society and Individuals" (Panelists: Nadia Berthouze, Nitesh Chawla, Jimmy Huang, Jundong Li, Huan Liu, and Osmar Zaïane)			

Session Title	Session ID	Session Time		Authors	Title	Type	Minutes
Bias, Sentiment & Signed Networks	Research - 9 (2R+3S)	27 August 2026 10:30 - 12:30	Oumaima FADI	Ngoc Kim Ngan Tran et al.	Do LLMs Share Human Biases? Assessing Model Alignment with Human Bias Perception in Partisan News	Full	30
				Anass Sebbar et al.	Dynamic Sentiment Analysis for Cybersecurity Threat Perception Using Fuzzy Deep Learning Methods	Short	20
				BIANCAMARIA BOMBINO et al.	Annotation of Positive vs Negative User Interactions for Social Sign Prediction	Short	20
				SOUMYAJIT DATTA et al.	Public Reactions to Privilege and Accountability After a Fatal Road Crash: A Large-Scale Analysis of YouTube Discourse Using Language Models	Short	20
				Zhuoyu Shi and Fred Morstatter	Gender Attribution in Causal Beliefs	Full	30
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Social Media Analytics & Online Behavior	Research - 10 (2R+3S)	27 August 2026 10:30 - 12:30	Gheida Shahrour	Lingling Zhang et al.	Task-Level Inequality in DAO Work Systems: An Empirical Analysis of Participation, Rewards, and Skill Structure	Full	30
				Andrea Failla et al.	Structure, Topics, and Diffusion Effects of Bluesky Starter Packs	Full	30
				Alireza Mohammadinodooshan et al.	Beyond View Counts: Exposure and Engagement Dynamics of News on TikTok	Short	20
				Yuina Takahashi and Sho Tsugawa	Interplay between Emotional Dynamics and Network Structure on the Social Media Vent	Short	20
				Tessai Hayama and Manato Takano	Visual Homophily as a Mediating Factor in Online Social Network Structure	Short	20

Session Title	Session ID	Session Time		Authors	Title	Type	Minutes
Community Detection & Clustering	Research - 11 (3R+1S)	27 August 2026 14:00 - 16:00	Andrea Failla	ANASSE TAHBOUN et al.	LGPA: Log-Gravity Propagation Algorithm for Community Detection in Complex Networks	Full	30
				Martin Waffo Kemgne et al.	Shapley-Based Community Deception in Complex Networks	Full	30
				Yashar Talebirad et al.	JASPER: Jaccard-Based Community Search on Uncertain Graphs	Full	30
				Martin WAFFO KEMGNE et al.	HyFALO: Detecting Communities in Hypergraphs with Formal Concept Analysis	Short	20
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Crisis, Computational Social Science & Applications	Research - 12 (2R+3S)	27 August 2026 14:00 - 16:00	Nitin Agarwal	Nitin Agarwal et al.	When Grievance Mobilizes: Lessons from the 2025 Indonesian Protests	Full	30
				Vedat Dogan et al.	ICBeGraph: A Heterogeneous Graph Benchmark for International Crisis Behavior Events	Full	30
				Vedat Dogan et al.	Transition-Aware Conservative Offline Reinforcement Learning for Next Crisis Phase Forecasting on Temporal Heterogeneous Graphs	Short	20
				Srikar Reddy Gadusu et al.	Multi-Modal Analysis of Social Media for Drug and Supplement Misuse	Short	20
				Nitin Agarwal et al.	Epidemic Modeling of Covert vs Overt Toxicity Transmission	Short	20

Session Title	Session ID	Session Time		Authors	Title	Type	Minutes
Hate Speech, Toxicity & Cyberbullying	Research - 13 (1R+3S)	27 August 2026 16:30 - 18:00	Gheida Shahrour	Manuel Sandoval Madrigal et al.	It's Not Just Bullying, It's Who Does What: Context-aware Cyberbullying Role Detection	Full	30
				Majid Alfifi et al.	Extremism Detection and Counter-Messaging with Large Language Models	Short	20
				Adnan Hoq and Tim Weninger	Evaluating LLMs as Human Surrogates in Controlled Experiments	Short	20
				Yogesh Kuchimanchi and Charishma Reddy Yerra	A Social and Legal Discourse Analysis Of Women's Safety Narratives in India	Short	20
Session Title	**Session ID**	**Session Time**		**Authors**	**Title**	**Type**	**Minutes**
Influence, Diffusion & Network Structure	Research - 14 (3R)	27 August 2026 16:30 - 18:00	Jimmy Huang	TAIKI IKEMOTO and SHO TSUGAWA	Influence Ranking Improvement via Link Addition in Social Networks	Full	30
				Francesco Di Cursi et al.	Layered Ego Networks in Email Communication: From Enron to the Jmail Archive	Full	30
				Lena Maier et al.	Understanding Network Formation in Post-Merger Integration using Exponential Random Graph Models	Full	30

Note:

Ones with blue color will be presented remotely

Ones with pink color need to be moved to an earlier date

	Chair	Authors	Title	Type	
Multidisciplinary I	Deniz Bestepe	Sylvie Chaddad (Avignon University - LIA)*; et al.	Exploring Contributor Dynamics in Open-Source Projects Using Social Network Analysis	Full	30
		Adam Pazdor; Carson Leung (University of Manitoba)*	Beyond the explicit edge: Unveiling latent connections in social graphs	Full	30
		Jack Nguyen; Carson Leung (University of Manitoba)*	Robust Name De-duplication in Social Network Analysis: Combining Fuzzy String Metrics with Depth-First Search	Full	30
		Riccardo Porcedda (Sant'Anna School of Advanced Studies)*; et al.	GravityGraphSAGE: Link Prediction in Directed Attributed Graphs	Short	20
	Chair	Authors	Title	Type	
Multidisciplinary II	Carson Leung	JJ Malasi (Université du Québec en Outaouais (UQO))*; et al.	A Lattice and Heterogeneous Graph-Based Social Network Mining Framework for Global Cybersecurity Threat Analysis	Short	20
		Sadia Rahman (Rockefeller Institute of Government)*	[online] Forecasting AI Adoption Across U.S. States	Full	30
		Farhan Dehan (Georgia Southern University)*	[online] Beyond Co-occurrence: Context-Sensitive Functional Analysis of Substance-Use References in Suicidal Discourse	Full	30
		Yunpeng Xiao (Emory University)*; et al.	[online] Understanding and Tackling Label Errors in Individual-Level Natural Language Understanding	Full	30
	Chair	Authors	Title	Type	
Multidisciplinary III	Malek Gaylani	Nitin Agarwal (COSMOS Research Center, UALR; ICSI, UC-Berkeley)*; et al.	Collective Effervescence and Emotion Coherence: A Socio-Computational Lens on Identity Formation in Online Social Movements	Full	30
		Andrea Failla (University of Pisa) et al.	The Brazilian Vaccination Debate on YouTube: Topics, Perspectives, and Engagement Dynamics	Full	30
		Andrea Failla (University of Pisa) et al.	A Decade of Climate Polarization on Brazilian YouTube using Language Models	Full	30
		Giordano Paoletti (Politecnico di Torino); et al.	More Polarized, Less Toxic: How Electoral Discourse on Instagram Shifted Over Four Years in Brazil	Short	20
	Chair	Authors	Title	Type	
Multidisciplinary IV	bouchra frikh	Manny Sandoval (Loyola University Chicago); et al.	SPILLOVER: Measuring Cyberbullying Norm Propagation on Social Media	Full	30
		Yuya Wake (University of Tsukuba)*; et al.	Effects of Transcript Compression on LLM-based Medical Misinformation Detection in Japanese YouTube Videos	Short	20
		Qile Wang (University of Delaware)*; et al.	Echoes in the Sky: Computational Thematic Analysis of Online Public Discourse on Bluesky Across Trump's Reelection	Short	20
		Mehrdad Shoeibi (University of Central Florida)*; et al.	[online] Learning Stable Predictors from Weak Supervision under Distribution Shift	Short	20
		Parker Ray (James Madison university); et al.	[online] A Cycle-Aware Proposal Mechanism for Recursive Spectral Splitting	Short	20
	Chair	Authors	Title	Type	
HIBIBI I	Deniz Bestepe	Li, Zhen*	Application Effect of RFID Technology in Refined Management of High-value Consumables in Operating Room	Full	30
		Ziad Elgammal, Mohammed Alhajj, Lama Alhajj, Sleiman Alhajj, Hussien Al Zouabi, Deniz Bestepe, Ibrahim Al-Atrach, Jon Rokne, and Uffe Kock Wiil	Cancer Type Classification Using PCA and Machine Learning on RNA-Seq Gene Expression Data	Full	30
		Bhatia, Shivaansh*; Zaiane, Osmar	U-Net based Image Restoration for Diabetic Retinopathy Classification	Short	20
		kandil, marwa*	Mapping the Network Architecture of Deep Learning-Based Brain Tumor Segmentation: A Bibliometric Structural Analysis (2020–2025)	Short	20
	Chair	Authors	Title	Type	
HIBIBI II	Mohammed Alhajj	Al-Saidi, Reem*; li, Yifeng; Kobti, Ziad	GENEIE: GENomic Embedding Inversion Evaluation : Reconstruction Attacks on Genome LLMs Embeddings	Full	30
		Molinari, Andrea*; Sandri, Simone; Costamagna, Filippo	Patient Record Linkage in Healthcare Systems Using Term-Salient Matching	Full	30
		Ghosh, Smita*; Luo, Xiaochen; Ramirez Vigil, Lucia; Pala, Abhinav; Poigai, Shayan; Arya, Shivvrat	Public Perceptions of ChatGPT as a Therapist-Like Tool: A Sentiment-Stratified Topic Modeling Study of Social Media Data	Short	20
		Djellali, Choukri*; Adda, Mehdi; Moutacalli, Mohamed Tarik	Deep-Learning-based Medical Image Analysis to Cervical Cancer Diagnosis	Short	20
	Chair	Authors	Title	Type	
HIBIBI III	Wail Zita	Ghosh, Smita*; Luo, Xiaochen; Nguyen, Thai; Engelmann, Jonah; Heinemeier, Karl; Sonar, Atharva; Venkatesh, Tharun; Arya, Shivvrat	SAFE-Chat: A Robust Framework for Self-Harm Risk Detection in Conversational AI Systems	Full	30
		Alyafeai, Mohsen; Barahim, Ammar; Sharaf, Mohammed ; Daduş, Kerem; Alhajj, Mohammed Taha; Alhajj, Lama; Elgammal, Ziad ; Sailunaz, Kashfia; Rokne, Jon; Alhajj, Reda*	Logistic Regression Classification of Canine Mammary Tumors Using Gene Expression Data	Full	30
		Bouzidi Idrissi , Rajaa*; Zrira, Nabila; Benmiloud, Ibtissam; Sebihi, Rajaa; Ez-zahraouy, Hamid	A Hybrid CoAtNet–Swin Transformer Stacking Ensemble forMulti-Label Pediatric Chest X-Ray Disease Classification	Full	30
		Gottlicher Palafox, Christian*; Agarwal, Smisha; McCulloh, Ian	Infoveillance of Mexican Vaccine Discourse on X: A Topic Modeling and LLM Stance Classification Pipeline	Short	20
		Comito, Carmela*; Martirano, Liliana	A Multimodal Graph Learning Framework for Alzheimer's Disease Modeling	Short	20
	Chair	Authors	Title	Type	
Demos Session	Nassma Zita	Agarwal, Nitin*; Rane, Atharvaa; Shelke, Bhushan; Pokhrel, Richa	BlogTrackers 2.0: An LLM-Powered Multilingual Blog Analytics System		20
		Agarwal, Nitin*; Ramadugu, Dinesh; Alayesanmi, Femi	VTracker 2.0: An LLM-Powered Multilingual YouTube Analytics System		20
		Agarwal, Nitin*; Khan, Muhammad Hassam Aslam; Kumar, Nittesh; Poudel, Diwash	DataVerse: A System for Multi-Platform Social Media Data and Analytics Management		20
		Bansah, Elikem; Bamfo, Kwabena*	MemeVerse: A Multimodal Telegram-Based System for Algorithmically Generated Meme Marketing Content		20

	Chair	Authors	Title	Type	
Inustrial I	Charles Zhou	Souza, Andressa*; Cizilio, Luísa; Vasconcelos, Ícaro; Freitas, Vander; Moreira, Gladston; Luz, Eduardo; Nicolau, Marcos; Souza, Wellington; Silva, Mauricio	Spectral Graph Neural Networks for Fraud Detection on Sparse Transaction Networks: An Industrial Case Study	Full	30
		Koneni, Chalapathi*; Lokula, Sanjay	SemCorBench Measuring Semantic Corruption in LLM-Derived	Full	30
		Masud, Md Rayhanul*; Zhang, Qian; Faloutsos, Michalis	MAGNET: A software-engineering view of the MAlware ecosystem on Github NETwork	Full	30
		Zhao, Ying*	Effect Webs Using Collaborative and Self-Organizing Agents (CSOAs) for a Wargame Construct	Full	30
	Chair	Authors	Title	Type	
Inustrial II	Charles Zhou	Green , Leili *	Discovering Drivers of Marine Corps Air-Ground Task Force (MAGTF) Readiness Using Causal Modeling and Machine Learning	Full	30
		Gujral, Ekta*; Sinha, Apurva; Mishra, Bijayani; Ji, Lishi	LLM-Based Topic and Phrase Suggestion for Product Reviews	Full	30
		Manchinahalli Srikanta, Shwetha Koushik*; M. Scheuer, Lindsay ; Maloney, Matt ; E Introne, Joshua; K Mohan, Chilukuri; Soundarajan, Sucheta	Rarity-Aware Learning from Event Streams for Nonprofit Decision-Making	Full	30
		Honjo Ide, Felipe*; Sasaki, Yuki; Kitajima, Shinya	An Automated Dataset Generator for Fact-Checking Tasks	Full	30
	Chair	Authors	Title	Type	
Inustrial III	Charles Zhou	Eulali Keita, Maimouna ; Alhamadani, Abdulaziz*	Mining Heterogeneous Industrial Sensor Networks for Site-Adaptive PM10 Forecasting in Open-Pit Mines	Full	30
		Li, Nanyu*; Zhang, Zhoulin	ECG-FreqMamba: Serial Frequency-Enhanced State Space Model for Imbalanced Arrhythmia Classification	Full	30
		Li, Nanyu*; zhang, zhoulin	Deep Equilibrium Compressed Sensing with Multi-Scale Convolutional Priors	Full	30
		Kim, Seonhyeong*; Won, Jong-Seok; Kim, Sang-Gyoon; Kwon, Young-Woo	A RAG-LLM Approach for Reliable Scenario Generation to Enhance Disaster Response	Full	30
	Chair	Authors	Title	Type	
Inustrial IV	Charles Zhou	Li, Nanyu*	QAOA-Inspired Deep Unrolled OAMP for Sparse Value Discovery in Collaborative Agent Networks	Full	30
		Li, Nanyu*; Zhang, Zhoulin	HSANet: Hybrid Spatial Attention Network for Saliency Prediction on Omnidirectional Images	Full	30
		Kim, Mijin; Kwon , Young-Woo *	Proactive Agent Intervention Timing: A Training-Free Structural Entropy Approach to User Taste Drift Detection	Full	30
		Bazyari, Farhad*; Liu, Xianghang; Moran, Sean	Same Pipeline, Opposite Conclusions: Sample-Surface Effects in Breaking-News Latency	Short	20
		Lokula, Sanjay*	A Generative AI Framework for Predictive Failure Detection in Distributed Enterprise Data Pipelines	Short	20
	Chair	Authors	Title	Type	
FOSINT-SI I	Joel Brynielsson	Othmane Cherqi ; Harazeem Abdulganiyu Oluwadamilare; Oumaima Fadi	OSINT-GraphIQ: A Multi-Signal Temporal-Semantic Framework for Cross-Platform Detection of Coordinated Inauthentic Behavior	Full	30
		Akrami, Yasamin*; Malkawi, Malek; Alhajj, Reda	Generative AI Driven Cybersecurity Impersonation Attack: A Case Study of the 2024 Arup Hong Kong Incident	Full	30
		Jean-Jarcke Mukombelwa Malasi; Ayao Bobi; Nabil Assellalou, Rokia Missaoui; Hajar Moudoud	Risk-Aware Triadic Pattern Mining for Interpretable Cyber Threat Intelligence	Full	30
		Kile Sears	Discovery Before Screening: Provenance-Centered Agentic OSINT for Source-Traceable Early Warning	Short	20
	Chair	Authors	Title	Type	
FOSINT-SI II	Madeleine Lindström	Rosasco, Gabriele*; Volta, Giorgio; Oldrini, Edoardo; Zunino, Rodolfo	BTQS: A Consensus-Based Temporal-Spatial Metric for Forensic Video Analysis	Full	30
		Nitin Agarwal; Christopher Falade	Temporal Analysis of Coordinated Toxicity	Full	30
		Linus Högberg, Joel Brynielsson*, Marianela García Lozano, Edward Tjörnhammar	Hallucinations in Automatic Speech Recognition of Russian Speech under Varying Noise Conditions	Full	30
	Chair	Authors	Title	Type	
FOSINT-SI III	Malek Gaylani	Jesus Zarate; Ayat Hatem	Beyond Cascades: Connectivity and Redundant Exposure in Misinformation Networks	Full	30
		Jesper Söderström, Joel Brynielsson*, Mika Cohen, Farzad Kamrani, Madeleine Lindström	Staying Ahead of the Adversary with Cognitive Hierarchy Steering of Large Language Models	Full	30
		Ljunggren Gräslund, Albin; Johansson, Fredrik*; Tjörnhammar, Edward; Öberg, Sebastian	Scanning Open-Weight LLMs for Potential Backdoor Poisoning Before Deployment	Full	30

	Chair	Authors	Title	Type	
Journal Track I	Jalal Kawash	Fatemeh Shaterian, Marzieh Sadri, MohammadAmin Fazli, Jafar Habibi	Do Not Review My Code Harshly: Identifying Counterproductive Behavior in Code Review Comments	JT	30
		Matthew Muscedere, Tansh Koul, Abdulrauf Gidado, Faria Khandaker	Comparative Analysis of Machine Learning Methods for Automated Fake News Detection	JT	30
		Davide Bassi, Giovanni Da San Martino, Renata Vieira	Rhetorical Echoes: Source-Audience Style Alignment in YouTube Immigration Debates	JT	30
		Salwa Gasmi, Anis Mezghani and Monji Kherallah	Advancements in Arabic Hate Speech Detection in the Age of LLMs: A Comprehensive Review	JT	30
	Chair	Authors	Title	Type	
Journal Track II	Deniz Bestepe	Yulong He, Anton V. Proskurnikov, Artem Sedakov	Mapping Sentiment Dependencies Among Online Influencer Communities on Weibo	JT	30
		Fabian Brandt-Tumescheit and Henning Meyerhenke	Parameter-Light Algorithms for Improving Hypermodularity-Based Community Detection	JT	30
		Ibai Guill´en-Pacho, Carlos Badenes-Olmedo and Oscar Corcho	An Unsupervised Multidimensional Data Drift Framework for Measuring Multilingual and Cross-National Political Discourse Shifts	JT	30
		Fabrizio Corriera, Frank W. Takes, Akrati Saxena	Individual Fairness in Community Detection: Quantitative Measure and Comparative Evaluation	JT	30
	Chair	Authors	Title	Type	
Journal Track III	Ezgi Bestepe	Rafe Sumnan Azade, Matthew Ragsdale and Vijayalakshmi Ramasamy	GraphSentinel: Incremental CTI Knowledge Graph Updates with Structure-Aware Entity Alignment and Conflict Detection	JT	30
		JooYoung Lee, Lin Tian, Angela Brillantes,Adriana-Simona Mihăit, Marian-Andrei Rizoiu	Long Live Fine-Tuning: Task-Specific Transformers Outperform Zero-Shot LLMs for Misinformation Response Classification on Reddit	JT	30
		Roba Darwish, Alia I Abdelmoty and Liam D. Turner	From Intended Topics to Emergent Discourse: A Duration-Weighted Framework for Quantifying Conversational Drift in X Spaces	JT	30
	Chair	Authors	Title	Type	
FAB I	Mohammed Alhajj	Shinneeb, Najia*; Moradian-Zadeh, Pooya	Optimizing Team Formation in Open-Source Software Development using Cultural Algorithms	Full	30
		yahya bougteb, brahim ouhbi, bouchra frikh	Knowledge Graph Structural Embeddings with Enriched Metadata for Sparse Recommendation	Full	30
		Zahran, Heba; Shafiq, Omair	Community-Aware Text Generation via Graph Representation Learning and Retrieval-Augmented Conditioning	Full	30
		Pasquini, Daniele; Vocca, Paola; Amati, Giambattista	Identifying Echo-Chamber Candidates through Cross-Layer Community Alignment in Twitter/X	Full	30
	Chair	Authors	Title	Type	
FAB II	brahim ouhbi	Ahmed, Sabit; Nepal, Subigya; Kautz, Henry	Hiding in Plain Sight: Finding MAHA on Reddit	Full	30
		Youssef Darahem, Abdelrahman Taha, Moustafa Elnady, Mohammed Alhajj, Sleiman Alhajj, Ziad Elgammal, Deniz Bestepe, Ibrahim Al-Atrach, Jon Rokne, and Uffe Kock Wiil	Multi-Model Ensemble for Soundscape Bird and Wildlife Species Recognition: A Study on BirdCLEF 2026	Full	30
		Mrazova, Iveta; Zvirinsky, Peter	Graph Evolution Rule Mining Applied to Debt Formation Analysis	Full	30
		Zhou, Charles*; Zhou, Jesse; Zhao, Ying	Evaluating the Value of Unstructured Data Using Causal Mediated Coherence	Full	30
	Chair	Authors	Title	Type	
FAB III	Nitin Agarwal	Agarwal, Nitin; Subedi, Bishwa Prakash	Small Structures, Strong Traps: Identifying Content Traps in Recommendation Networks	Full	30
		Agarwal, Nitin*	Analyzing Evolving Traps in YouTube Recommendation Algorithm	Full	30
		Leung, Carson*	Rule-Based Name Matching for Social Network Analysis in Noisy Datasets	Full	30
		Amal Sellami; Ahlem Nabli; Faiez Gargouri	ETL-Based Framework for Graph-Oriented NoSQL Data Warehousing	Full	30
	Chair	Authors	Title	Type	
PhD Session I	Omair Shafiq	Touyafzate, Anass	Artificial Intelligence and Online Interaction Analysis: Towards AI-Augmented Sociometry in Digital Learning Environments	Full	30
		ZAOULY, Heliote-Ismaël*; HEMERY, Baptiste; JEANNE, Fabrice; LE BARS, Jean-Marie; PAWLOWSKI, Estelle	Towards Temporal and Structural Role-Aware Node Embeddings for Dynamic Socio-Transactional Graphs	Full	30
		Khalfi, Khawla*; Rebhi, Wala; Ben Yahia, Nesrine; Abu Talib, Manar; Nasir, Qassim	Q-MGE: A Hybrid Quantum–Classical Multi-View Graph Embedding Framework for Community Detection in Complex Networks	Full	30
		Abushofa, Mohamad Elhadi*; McGough, A.Stephen ; Atapour-Abarghouei, Amir; Forshaw, Matthew	DynGATv2: A Hybrid Approach Leveraging GATv2 and RNN for Link Prediction in Temporal Graphs	Full	30
	Chair	Authors	Title	Type	
PhD Session II	Omair Shafiq	Choi, Jeong-Eun*	Towards Assessing Reliability in Exploratory Social Media Analysis Under Real-World Constraints	Full	30
		bhullar, Amangel*; kobti, ziad	Anchor-Attention Encoding for Fully Inductive Temporal Knowledge Graph Reasoning	Full	30
		bhullar, Amangel*; kobti, ziad	Adaptive Sparse Graph Neural Networks for Knowledge Graph Completion: Hard Edge Gating with Query-Conditioned Subgraph Selection	Full	30

Workshops Session I

Chair	Authors	Title	Type	
Andrea Failla	Invited Talk		Full	30
	Hand-on session		Full	60

Workshops Session II

Chair	Authors	Title	Type	
Malek Gaylani	Nitin Agarwal*; Monoarul Bhuiyan	Evolving Traps in Algorithmic Ecosystems: A Temporal Network Analysis of YouTube Recommendations	Full	30
	Ridwan Amure; Nitin Agarwal*	Structural Focal Groups as Drivers of Protest Communication: Evidence from the Indonesia 2025 Protests	Full	30
	Christos Charalambous*; Nikolaos Tsakas	Norm-Induced Self-Censorship in a Behavioral Model of Online Communication	Full	30
	Edoardo Maggioni*; Rossana Mastrandrea; Ren Manfredi; Fabio Saracco	Beyond Direct Retweets: Multi-Step Pathways in Italian COVID-19 Twitter	Full	30

Workshops Session III

Chair	Authors	Title	Type	
Wail Zita	I-Hsien Ting, Kazunori Minetaki, Dario Liberona and Mu-En Wu	Exploring Agent Interactions in MoltBook through Social Network Analysis	Full	30
	Wei-Chen Huang, Hsin-Ting Lu and Min-Yuh Day	Orchestrator RegComAgent: An Agentic AI Framework for Multilingual ESG Regulatory Compliance Verification	Full	30
	Sedef Özpilavcı, İpek Korkmaz, Melisa Sarıtaş, Malek Malkawi and Reda Alhajj	Social Media Automation Posting Efficiency: A Comparison of Parallel and Sequential Posting	Full	30
	Houssam Halmaoui	Transformer Based Media Monitoring via Graph Community Analysis : Open Source System and Public Dataset	Full	30

Workshops Session IV

Chair	Authors	Title	Type	
Andrea Failla	Wail Zita, Nassma Zita, Malek Malkawi and Reda Alhajj	Quantum-Inspired Graph Analysis for Social Network Anomaly Detection	Full	30
	Anastasiia Potiagalova, Hyunji Cho, Ivan Bacher, Hao Wu, Patricia Buffini, Anna Davies and Gareth Jones	Search-Induced Bias in Urban Initiative Mapping: A Longitudinal Multi-Platform Study of Food Sharing	Full	30
	Skylar Stromme, Nesrine Abbas and Mohamad El-Hajj	A Temporal Collaborative Context-Aware Multi-Graph Based Recommender System	Full	30
	Essam Ghadafi and Panagiotis Andriotis	UK Finfluencers on TikTok: A Longitudinal Analysis of Content, Engagement, and Disclaimer Practices	Full	30

Tutorial

"Informational Health: An Integrated Framework for the Analysis and Design of Information Spaces"

Erina Murata (The University of Tokyo)
Fujio Toriumi (The University of Tokyo)

Abstract:
In today's information society, information spaces have become an indispensable foundation of everyday life. However, it remains difficult to objectively understand the dynamics within these spaces. While information spaces serve as critical infrastructures that support the free flow and exchange of information, their attention-economy-driven structures also give rise to phenomena such as filter bubbles and echo chambers, thereby embedding social risks including the spread of misinformation, disinformation, and online harassment.
This tutorial positions "Informational Health" as an integrated framework for addressing these challenges. In particular, it focuses on network structures, information transformation across media platforms, large language models (LLMs), and users' emotional responses. By integrating these perspectives, the tutorial discusses the approaches for evaluating and supporting healthier information environments. Participants will gain an interdisciplinary understanding of how information environments can be analyzed, evaluated, and designed from the perspective of Informational Health.

Speakers Bio.

Fujio Toriumi
Fujio Toriumi is a Professor at the Graduate School of Engineering,
The University of Tokyo. He received his Ph.D. in Engineering from the Department of Mechanical and Control Systems Engineering, Tokyo Institute of Technology, in 2004. He became an Associate Professor at the Graduate School of Engineering, The University of Tokyo, in 2012, and has held his current position since 2021. His research interests include computational social science and the social applications of artificial intelligence technologies, particularly the empirical analysis of social phenomena in information spaces. He has also served as Vice President of the Japanese Association for Computational Social Science.

Masaki Chujyo
Masaki Chujyo is an Assistant Professor at the Graduate School of
Engineering, The University of Tokyo. He received his master's degree in 2020 and his Ph.D. in Fusion Science in 2023 from the Japan Advanced Institute of Science and Technology (JAIST). He joined his current position in 2023. His research interests include computational social science and complex networks. In this tutorial, he will cover network-based analyses of social media.

Hirohiko Suwa
Hirohiko Suwa is an Associate Professor at the Graduate School of
Science and Technology, Nara Institute of Science and Technology (NAIST). He received his Ph.D. in Engineering from The University of Electro-Communications. His research interests include data mining, social media analysis, and recommender systems, with a focus on analyzing human behavior and social phenomena through information science approaches.
He has also conducted research in ubiquitous c+C135omputing and social information systems, addressing social issues through the collection, analysis, and application of real-world data. In this tutorial, he will explain the foundations of semantic generation by large language models (LLMs) and discuss their role in information spaces from the perspective of Informational Health.

Dongwoo Lim
Dongwoo Lim is an Assistant Professor in the Department of Sociology, Faculty of Sociology, Kansai University. He received his Ph.D. in Social Information Studies from The University of Tokyo in 2023. His research lies in the fields of media studies and computational social science, particularly focusing on social media analysis and user behavior. His recent work investigates how information is propagated and reconstructed across different media platforms, as well as how content formats and contexts change during this process. He is especially interested in the characteristics and social impacts of information circulation across online platforms. In this tutorial, he will discuss information transformation processes across media and explain the role of media platforms in understanding information environments.

Erina Murata
Erina Murata is a doctoral student affiliated with the Graduate School
of Engineering, The University of Tokyo, and the Graduate School of Human Sciences, Waseda University. Her research focuses on psychological traits and social emotions in social media environments. In this tutorial, she will address emotional transitions across social media and mass media.