

Preface

The conference on advances in social network analysis and mining (ASONAM), ASONAM 2024 has marked the 16th anniversary of being the flagship, premier and leading venue in the rapidly growing domain of social network analysis and mining which emerged into one of the most well established and successful conferences. It is great pleasure to have the acceptance rate stabilizes below 20% for full papers since ASONAM was organized in Istanbul in 2012. Indeed, this reflects maturity and stability in terms of number of submissions, acceptance rate and participation, and ASONAM got its permanent position among top tier international conferences.

This year, we moved from ACM/IEEE as sponsors to have Springer as the Sponsor and publisher of the proceedings. We will continue to have authors of all papers presented at ASONAM and the co-located events are invited to submit expanded versions of their manuscripts to the prestigious SNAM journal, NetMAHIB journal, or the LNSN series which are characterized by their high visibility and fast processing of submissions. Special thanks to Springer Nature for having their various publication venues which have been well integrated with ASONAM to the benefit of both parties.

We gathered over four days to witness interesting and exciting research achievements by various authors who present full, short, poster, or demo papers covering a wide spectrum of research contributions to the foundations and applications of social networks. These would not have been possible without the dedication of a large team of motivated research leaders work closely together for twelve months to put together the attractive and intensive scientific program. Their great achievements contribute much to the visibility of ASONAM. I would like to heartedly thank them all.

Not to forget in particular the generous support received from the operational organizing team who have spent considerable time and effort handling daily issues and activities, answering emails, updating the Websites, etc. Special thanks to Min-Yuh Day, Panagiotis Karampelas, Tansel Ozyer, Mehmet Kaya, Deniz Bestepe, Diaylo Steiman, and Jalal Kawash, who have worked hard to produce the proceedings, communicate with participants/authors, and handle the registration, also special thanks to the local arrangements team from University of Calabria. Indeed, without their highly appreciated effort it would have been really very hard to maintain the quality of the social program and keep the trend of providing rich meals and breaks during the conference and the excursion trip organized.

Thank you to all organizers including general chairs, program chairs and the chairs of various tracks and workshops, to participants, to authors who submitted papers and to program committee members and the reviewers who invested their valuable time and effort to provide timely and comprehensive reviews. We encourage researchers and practitioners to submit again next year to get the opportunity and privilege to present their work at ASONAM 2025.

September 2024

Luca M. Aiello, IT University of Copenhagen, Denmark
Tanmoy Chakraborty, IIT Delhi, India
Sabrina Gaito, University of Milan, Italy

Organization

Steering Chair

Reda Alhajj University of Calgary, Canada

Honorary Chairs

Frans N. Stokman University of Groningen, Netherlands

General Chairs

Andrea Tagarelli University of Calabria, Italy
Roberto Interdonato CIRAD, UMR Tetis, France
Jon Rokne University of Calgary, Canada

Program Committee Chairs

Luca M. Aiello IT University of Copenhagen, Denmark
Tanmoy Chakraborty IIT Delhi, India
Sabrina Gaito University of Milan, Italy

Industry-Track Chairs

Francesco Gullo University of L'Aquila, Italy
Gianmarco De Francisci Morales CENTAI, Italy

Workshops Chairs

I-Hsien Ting National University of Kaohsiung, Taiwan
Rajesh Sharma University of Tartu, Estonia
Lucio La Cava University of Calabria, Italy

Multidisciplinary Track Chairs

Ester Zumpano University of Calabria, Italy
Shirin Nilizadeh University of Texas at Arlington, USA
Carmela Comito ICAR-CNR, Italy

PhD Forum and Posters Track Chairs

| | |
|--------------------|-------------------------------|
| Huzefa Rangwala | George Mason University, USA |
| Alessia Antelmi | University of Turin, Italy |
| Domenico Mandaglio | University of Calabria, Italy |

Demos and Exhibitions Chairs

| | |
|---------------|-----------------------------------|
| Elio Masciari | University of Naples, Italy |
| Tansel Ozyer | Ankara Medipol University, Turkey |

Tutorial Chairs

| | |
|-----------------|-------------------------------|
| Pasquale De Meo | University of Messina, Italy |
| Shady Shehata | YOURIKA Labs, Canada |
| Davide Vega | University of Uppsala, Sweden |

Publicity Chairs

| | |
|------------------|-------------------------------|
| Shang Gao | Jilin University, China |
| Buket Kaya | Firat University, Turkey |
| Kashfia Sailunaz | University of Calgary, Canada |

Publication Chairs

| | |
|-----------------------|------------------------------------|
| Min-Yuh Day | National Taipei University, Taiwan |
| Panagiotis Karampelas | Hellenic Airforce Academy, Greece |

Registration Chairs

| | |
|--------------|-------------------------------|
| Jalal Kawash | University of Calgary, Canada |
| Mehmet Kaya | Firat University, Turkey |

Web Chair

| | |
|---------------|-------------------------------------|
| Deniz Bestepe | Istanbul Medipol University, Turkey |
|---------------|-------------------------------------|

Additional Reviewers

B. Aditya Prakash, Georgia Tech, USA

Dong Wang, University of Illinois Urbana-Champaign, USA
 Tim Weninger, University of Notre Dame, USA
 Abdessamad Benlahbib, FSDM
 Abdessamad Imine, Loria
 Abiola Akinnubi, COSMOS-UALR
 Adnan Hoq, University of Notre Dame
 Aisling Third, The Open University
 Akira Matsui, Yokohama National University
 Alessandro Visintin, University of Padua
 Alexander Rodriguez, Georgia Institute of Technology
 Amrit Poudel, University of Notre Dame
 Anastasios Giovanidis, Centre National de la Recherche Scientifique (CNRS)
 Anatoliy Gruz, Toronto Metropolitan University
 Anggy Eka Pratiwi, Indian Institute of Technology Jodhpur
 Ankan Mullick, IIT Kharagpur
 Anurag Singh, National Institute of Technology Delhi, India
 Arlei Silva, Rice University
 Ashwin Shreyas Mohan Rao, Information Sciences Institute - University of Southern California
 Bailu Jin, Cranfield
 Bijaya Adhikari, University of Iowa
 Billy Spann, University of Arkansas at Little Rock
 Bing He, Georgia Institute of Technology
 Bohan Jiang, Arizona State University
 Casey Doyle, Sandia National Laboratories
 Charalampos Chelms, University at Albany State University of New York
 Christine Largeron, Université de Lyon
 Constantine Dovrolis, Georgia Institute of Technology

Courtland Vandam, Massachusetts Institute of Technology
 David Skillicorn, Queen's University
 Debanjan Datta, Virginia Tech
 Eduard Dragut, Temple University
 Ehsan Ul Haq, The Hong Kong University of Science and Technology
 Etienne Gael Tajeuna, Laval University
 Fattane Zarrinkalam, University of Guelph
 Fernando Terroso-Saenz, Catholic University of Murcia
 Frank Liu, Southern Illinois University
 Fujio Toriumi, The University of Tokyo
 George Panagopoulos, Ecole Polytechnique
 Gita Sukthankar, University of Central Florida
 Hadassa Daltrophe, Shamoan College of Engineering (SCE)
 Hamid R. Rabiee, Sharif University of Technology
 Hanjia Lyu, University of Rochester
 Hasan Davulcu, Arizona State University
 Hasan Davulcu, Arizona State University
 Hitkul Jangra, Indraprastha Institute of Information Technology, Delhi
 Huimin Zeng, University of Illinois at Urbana-Champaign
 Huimin Zeng, University of Illinois at Urbana-Champaign
 Humayun Kabir, Microsoft
 Isabel Murdock, Carnegie Mellon University
 Jiaming Cui, Georgia Institute of Technology
 Jiamou Liu, The University of Auckland
 Jiten Sidhpura, Sardar Patel Institute of Technology
 Jose Luis Fernandez-Marquez, University of Geneva

Julio Cesar Soares dos Reis, Federal University of Viçosa
 Keith Burghardt, University of Southern California
 Kenji Yokotani, Tokushima University
 Keyan Guo, University at Buffalo
 Kijung Shin, Korea Advanced Institute of Science and Technology
 Kshiteesh Hegde, Western Digital
 Lanyu Shang, University of Illinois Urbana-Champaign
 Lara Quijano-Sanchez, Universidad Autónoma de Madrid
 Lu-An Tang, NEC Labs America
 Mainuddin Shaik, University of Arkansas at Little Rock
 Mehrdad Jalali, Karlsruhe Institute of Technology
 Michael Smit, Dalhousie University
 Mirela Riveni, University of Groningen
 Muhammad Abulaish, South Asian University
 Nayoung Kim, Arizona State University
 Neha Gondal, Boston University
 Nicholas Botzer, University of Notre Dame
 Nikhil Muralidhar, Stevens Institute of Technology
 Niloofar Yousefi, University of Arkansas at Little Rock
 Nishant Vishwamitra, Clemson University
 Nur Dean, Farmingdale State College
 Orchid Chetia Phukan, Indraprastha Institute of Information Technology
 Raed Alharbi, University of Florida
 Rafael Elias De Lima Escalfoni, CEFET-RJ
 Rajesh Sharma, University of Tartu
 Rajiv Ramnath, The Ohio State University
 Sajedul Talukder, University of Alabama at Birmingham
 Sangeeta Lal, Keele University

Sankita Patel, SVNIT
 Sharma Chakravarthy, The University of Texas at Arlington
 Shreya Ghosh, Pennsylvania State University
 Shubham Gupta, Indian Institute of Technology Jodhpur
 Siyi Guo, University of Southern California
 Sriram Pemmaraju, Department of Computer Science, The University of Iowa
 Subhodip Biswas, VIRGINIA POLYTECHNIC INSTITUTE
 Suman Kundu, Indian Institute of Technology Jodhpur
 Tanvir Amin, Google
 Theresa Migler, California Polytechnic State University, San Luis Obispo
 Tobias Hecking, German Aerospace Center
 Toshiharu Sugawara, Waseda University
 Trenton Ford, University of Notre Dame
 Tuan Le, New Mexico State University
 Ulrik Brandes, ETH Zürich
 Wael Khreich, American University of Beirut
 Wang-Chien Lee, The Pennsylvania State University
 William Power, Temple University
 Xinwei Deng, Department of Statistics, Virginia Tech
 Xinyang Zhang, University of Illinois at Urbana-Champaign
 Xueying Liu, Virginia Polytechnic Institute and State University
 Yang Zhang, University of Illinois at Urbana-Champaign
 Yifan Ding, University of Notre Dame
 Ying Zhao, Naval Postgraduate School
 Yiqiao Jin, Georgia Institute of Technology

Yoshiharu Ichikawa, Keio University/NHK
Young-Woo Kwon, Kyungpook National University
Yue Zhang, Amazon, Inc.
Yueqing Liang, Illinois Institute of Technology
Zhenming Liu, College of William and Mary
Zhenrui Yue, University of Illinois Urbana-Champaign
Zhihao Hu, Department of Statistics, Virginia Tech
Abdessamad Benlahbib, FSDM

Anastasios Giovanidis, Centre National de la Recherche Scientifique (CNRS)
Bailu Jin, Cranfield
David Skillicorn, Queen's University
Etienne Gael Tajeuna, Laval University
Fattane Zarrinkalam, University of Guelph
Huimin Zeng, University of Illinois at Urbana-Champaign
Neha Gondal, Boston University
Subhodip Biswas, VIRGINIA POLYTECHNIC INSTITUTE

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 J rgen Pfeffer</i> | |

| | |
|--|-----|
| Analyzing X's Web of Influence: Dissecting News Sharing Dynamics through Credibility and Popularity with Transfer Entropy and Multiplex Network Measures | 115 |
| <i>Sina Abdidizaji, Alexander Baekey, Chathura Jayalath, Alexander Mantzaris, Ozlem Ozmen Garibay and Ivan Garibay</i> | |
| FairNet: A Genetic Framework to Reduce Marginalization in Social Networks | 131 |
| <i>Federico Mazzoni, Andrea Failla and Giulio Rossetti</i> | |
| Agent-Based Modelling Meets Generative AI in Social Network Simulations | 147 |
| <i>Antonino Ferraro, Antonio Galli, Valerio La Gatta, Marco Postiglione, Gian Marco Orlando, Diego Russo, Giuseppe Riccio, Antonio Romano and Vincenzo Moscato</i> | |
| DeepFairRank: A Multi-Objective Framework for Fair Top-k Node Ranking in Network Data..... | 163 |
| <i>Francisco Santos, Farzan Masrour, Pang-Ning Tan and Abdol-Hossein Esfahanian</i> | |
| RUMs with Ties: A Discrete Choice Model Allowing Multiple Winners | 179 |
| <i>Flavio Chierichetti, Ravi Kumar, Giuseppe Re and Andrew Tomkins</i> | |
| Thresholds as Mechanisms for Weighting Influence in the Linear Threshold Rank. | 197 |
| <i>Maria J. Blesa, Alejandro Dominguez-Besserer and Maria Serna</i> | |
| Parfaite: PageRank-Matrix Factorization for Interpretable Graph Embeddings | 213 |
| <i>Gabriel Damay and Mauro Sozio</i> | |
| Categorising Corruption in the Vaccine Discourse: A General Taxonomy, Data Set, and Evaluation of LLMs for Classifying Corruption Dialogue in Social Media | 229 |
| <i>Vitor Gaboardi dos Santos, Guto Leoni Santos, Antonia Egli, Estatira Kahvazadeh, Bill Doolin, Patricia Endo and Theo Lynn</i> | |
| Evaluating and improving projects' bus-factor: a network analytical framework | 245 |
| <i>Sebastiano Piccolo, Pasquale De Meo and Giorgio Terracina</i> | |
| Towards Generalized Offensive Language Identification | 261 |
| <i>Alphaeus Dmonte, Tejas Arya, Tharindu Ranasinghe and Marcos Zampieri</i> | |
| Online Social Community Neighborhood Formation..... | 277 |
| <i>Jiarui Wang, George Barnett, Norman Matloff and S. Felix Wu</i> | |
| Enhancing Stance Classification on Social Media Using Quantified Moral Foundations..... | 294 |
| <i>Hong Zhang, Quoc-Nam Nguyen, Prasanta Bhattacharya, Wei Gao, Liang Ze Wong, Brandon Siyuan Loh, Joseph J. P. Simons and Jisun An</i> | |

| | |
|---|-----|
| 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 Fa- cebook..... | 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> | |

XVIII

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

PhD

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

Multidisciplinary

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

| | |
|--|-----|
| 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 Roccetti, 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> | |

| | |
|---|-----|
| 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> | |

Proceedings of ASONAM 2024

Author Index

| | |
|--------------------------------|---|
| Abarghouei, Amir Atapour | III-125 |
| Abdelzaher, Tarek | I-390 |
| Abdidizaji, Sina | I-115 |
| Abramson, Jeremy | II-81 |
| Abuhamad, Mohammed | III-343 |
| Abushofa, Mohamad Elhadi | III-125 |
| Addai, Emmanuel | II-282 |
| Adesokan, Ademola | I-343 |
| Adhikari, Surabhi | II-314 |
| Agarwal, Nitin | II-250, II-282, IV-290, V-46, V-54, V-120, VI-1 |
| Aida, Masaki | II-121 |
| Ainoo, Emmanuel | VI-62 |
| Aktas, Melike Yildiz | III-250 |
| Al-Taweel, Ahmed | IV-290 |
| Alam, Jahangir | III-75, V-212 |
| Alam, Md Jahangir | IV-230, V-167, V-194, V-225, VI-334, VI-349 |
| Alassad, Mustafa | II-250 |
| Alhaji, Reda | IV-246 |
| Alhamadani, Abdulaziz | IV-114, IV-147, IV-179 |
| Alizadeh, Meysam | I-438 |
| Alkulaib, Lulwah | III-250, IV-114, IV-163 |
| Almutairi, Mariam | III-250 |
| Althubiti, Khadija | IV-114 |
| Alvaro-Montes, Oscar | III-96 |
| Alvisi, Lorenzo | II-193, V-158 |
| Amar, Mohamed Mahmoud | III-186 |
| Amerini, Irene | VI-32 |
| Amure, Ridwan | V-54, VI-1 |
| An, Jisun | I-294 |
| Anderson, Paul | V-98 |
| Angelis, Vincenzo De | VI-88 |
| Antonakaki, Despoina | I-63 |
| Arminio, Luigi | III-157, V-241 |
| Arya, Tejas | I-261 |
| Asgari, Yasaman | I-438 |
| Auletta, Vincenzo | VI-227 |
| Baekey, Alexander | I-115 |
| Banerjee, Suman | VI-250 |
| Bao, Robert | VI-234 |
| Barnett, George | I-277, IV-65 |
| Barni, Mauro | VI-32 |

| | |
|-------------------------------|------------------|
| Barone, Antonino | V-31 |
| Bartley, Nathan | II-35 |
| Bashalli, Kleanti | VI-108 |
| Battiato, Sebastiano | VI-32 |
| Batzdorfer, Veronika | I-438 |
| Benlaredj, Ismail | VI-204 |
| Benzinger, Michael | I-97 |
| Bergamini, Ryan | V-78 |
| Berjawi, Omran | V-136 |
| Bermeo, Juan Diego | I-438 |
| Bernard, H. Russell | III-310 |
| Bernardo, Carmela | V-183, VI-48 |
| Bertaglia, Thales | III-1 |
| Bertet, Karell | III-21 |
| Berthet, Antoine O. | III-54 |
| Bestagini, Paolo | VI-32 |
| Bhagat, Pranish | II-152 |
| Bhattacharya, Prasanta | I-294 |
| Biase, Paolo De | V-162 |
| Black, Jack | I-470 |
| Blesa, Maria J. | I-197 |
| Boato, Giulia | VI-32 |
| Boddu, Sharon | I-1, II-325 |
| Boldrini, Chiara | II-162 |
| Bonaventura, Tania Sari | VI-32 |
| Bontcheva, Kalina | II-230 |
| Bosch, Antal van Den | II-61 |
| Bostan, Ionut | IV-98 |
| Bouchaud, Paul | II-91 |
| Bouguessa, Mohamed | III-186 |
| Bowen, Edward | IV-131 |
| Brandes, Ulrik | II-240 |
| Bruni, Vittoria | VI-32 |
| Buduru, Arun Balaji | IV-49 |
| Burghardt, Keith | II-35 |
| Buttar, Arshpreet | IV-205 |
| Cakmak, Mert Can | V-120 |
| Caldelli, Roberto | VI-32 |
| Canino, Aurelio Loris | VI-88 |
| Cappiello, Giuseppe | IV-221 |
| Cardaioli, Matteo | VI-266 |
| Cardillo, Elena | VI-134 |
| Carlsson, Niklas | III-33 |
| Catillo, Marta | VI-48 |
| Cauteruccio, Francesco | I-33, VI-227 |
| Cavaliere, Danilo | V-136 |
| Cavalini, Athus | III-170, III-295 |

| | |
|------------------------------------|----------------|
| Celotto, Antonio..... | V-31 |
| Chakraborty, Abhijnan..... | I-422 |
| Chao, Chian-Hsueng..... | VI-283 |
| Chauhan, Gaurav..... | I-422 |
| Chawla, Tisha..... | I-377 |
| Cheng, Lu..... | II-19, III-218 |
| Chierichetti, Flavio..... | I-179 |
| Choi, Kevin..... | IV-131 |
| Choi, Seonhwa..... | V-36 |
| Choi, Yeonjung..... | II-304 |
| Cicero, Simona..... | VI-118 |
| Citraro, Salvatore..... | I-49 |
| Clements, Nicholas..... | III-44 |
| Conti, Mauro..... | VI-266 |
| Cosci, Cristian..... | V-152 |
| Cui, Hang..... | I-390 |
| Cursi, Francesco Di..... | V-162 |
| Cuzzocrea, Alfredo..... | VI-204 |
| Çetinkaya, Yusuf Mûcahit..... | II-203 |
| D'Ascenzo, Andrea..... | I-310 |
| D'Emidio, Mattia..... | I-310 |
| Damay, Gabriel..... | I-213 |
| Damoun, Farouk..... | II-1 |
| Date, Sachin..... | IV-1 |
| Davidson, Jean..... | V-98 |
| Davulcu, Hasan..... | II-203 |
| Day, Min-Yuh..... | VI-295 |
| De, Suparna..... | IV-98 |
| DeVerna, Matthew..... | I-406 |
| Dehghani, Shirin..... | I-438 |
| Delgado, Myriam..... | II-271 |
| Demko, Christophe..... | III-21 |
| Deng, Xinwei..... | IV-131, VI-324 |
| Derr, Tyler..... | I-17 |
| Diallo, Abdoulaye Baniré..... | III-186 |
| Dikaiakos, Marios..... | I-79 |
| Dillon, Sj..... | III-310 |
| Ding, Chen..... | II-71 |
| Dini, Luca..... | V-152 |
| Dmonte, Alphaeus..... | I-261 |
| Doidge, Mark..... | I-470 |
| Dominguez-Besserer, Alejandro..... | I-197 |
| Donahoo, Micheal..... | II-152 |
| Doolin, Bill..... | I-229 |
| Dorn, Rebecca..... | II-81 |
| Dozal, Laura W..... | V-10 |
| Dutta, Sujan..... | III-85 |

| | |
|--|---------------------|
| Egierski, Nicolas | IV-179 |
| Egli, Antonia | I-229 |
| Endo, Patricia | I-229 |
| Endo, Patricia Takako | I-470 |
| Esfahanian, Abdol-Hossein | I-163, II-173 |
| Esterling, Kevin | I-326 |
| Ezeife, Christie | VI-62 |
| Failla, Andrea | I-33, I-131 |
| Faloutsos, Michalis | I-326 |
| Fan, Jiawei | IV-205 |
| Farokhi, Soheila | I-17 |
| Fatoki, Olukeye | IV-205 |
| Fenza, Giuseppe | V-104, V-136, VI-17 |
| Fernández-Diego, Marta | II-111 |
| Ferragina, Emanuele | I-49 |
| Ferraioli, Diodato | VI-227 |
| Ferraro, Antonino | I-147 |
| Ferro, Victoria | III-295 |
| Fletcher, Thomas | I-470 |
| Foresta, Sara | V-31 |
| Forshaw, Matthew | III-125 |
| Foumani, Arash Azizian | I-17 |
| Frank, Richard | IV-258 |
| Freeman, Laura | IV-131 |
| Furman, Patrick | III-343 |
| Furno, Domenico | VI-17 |
| Fushimi, Takayasu | IV-33 |
| Galli, Antonio | I-147 |
| Gallo, Mariacristina | V-104, VI-17 |
| Gao, Wei | I-294 |
| Garibay, Ivan | I-115 |
| Garibay, Ozlem Ozmen | I-115 |
| Gatta, Valerio La | I-147 |
| Geleta, Roba | IV-205 |
| Ghawi, Raji | I-97 |
| Ghorbanpour, Faeze | II-214 |
| Gidado, Abdulrauf | VI-62 |
| Gilardi, Fabrizio | I-438 |
| Ginde, Gouri | III-326 |
| Giordano, Silvia | I-406 |
| Goanta, Catalina | III-1 |
| Goga, Oana | I-422 |
| González-Ladrón-De-Guevara, Fernando | II-111 |
| Goveia, Fabio | III-170, III-295 |
| Guarasci, Raffaele | VI-160 |
| Guarascio, Massimo | VI-118 |
| Guarnera, Luca | VI-32 |

| | |
|-------------------------------|--|
| Gubert, Fernanda..... | II-271 |
| Guerrieri, Antonio..... | VI-118 |
| Gui, Haoyang | III-1 |
| Guillaume, Jean-Loup..... | III-21 |
| Guldstrand, Frank | IV-306 |
| Gupta, Manish..... | II-142 |
| Gupta, Yayati | IV-17 |
| Gurung, Mayor Inna..... | IV-290 |
| Hafsaoui, Abderraouf..... | VI-204 |
| Hajjej, Faten..... | IV-81 |
| Hall, Deborah..... | III-218, III-343 |
| Hamdi, Monia | IV-81 |
| Hammad, Omar | III-44 |
| Haq, Ehsan Ul | III-11, III-65 |
| Hara, Takahiro | II-51 |
| Hasan, Emrul..... | II-71 |
| Hayel, Yezekael | III-54 |
| He, Hao | VI-324 |
| He, Jiahui | III-65 |
| He, Jianfeng | IV-114 |
| He, Yupeng | III-65 |
| Hemel, Ernst van den..... | II-61 |
| Hemery, Baptiste..... | III-110 |
| Herkenhoff, Gabriel | III-170 |
| Ho, Iris | V-98 |
| Homann, Laura | III-96 |
| Hossain, Ismail..... | IV-230, V-167, V-194, V-212, V-225, VI-334, VI-349 |
| Hossian, Ismail..... | III-75 |
| Hsu, Mei-Yun | VI-283 |
| Hu, Alison..... | IV-131 |
| Hui, Pan..... | III-11 |
| Hurtado, Sofia | VI-188 |
| Ioannidis, Sotiris | I-63 |
| Irani, Arman..... | I-326 |
| Jakhaniya, Dhvani..... | IV-274 |
| Jayalath, Chathura..... | I-115 |
| Jeanne, Fabrice..... | III-110 |
| Jiang, Julie..... | II-81 |
| Kahvazadeh, Estatira..... | I-229 |
| Karagiorgou, Sophia | VI-108 |
| Karakasidis, Alexandros | VI-108 |
| Karimi, Hamid | I-17 |
| Karmakar, Saurav | III-358 |
| Kattampallil, Neil..... | VI-324 |
| Kawai, Yukiko | V-1 |
| Kawasaki, Yuki..... | IV-33 |
| Kaya, Buket..... | IV-246 |

| | |
|------------------------------|-----------------|
| Kaya, Mehmet..... | IV-246, V-82 |
| Kearns, Colm | I-470 |
| Kejriwal, Mayank | III-266, V-62 |
| Kemgne, Martin Waffo | III-21 |
| Khalili, Aniya..... | III-44 |
| Khan, Maleq..... | I-1, II-325 |
| Khatri, Aadyant..... | III-250, IV-179 |
| Khiabani, Parisa Jamadi..... | II-162 |
| KhudaBukhsh, Ashiqur R. | III-85 |
| Khudabukhsh, Ashiqur R..... | I-377 |
| Kilvington, Dan..... | I-470 |
| Kim, Nayoung..... | II-19 |
| Kim, Seonhyeong..... | V-36 |
| Korkmaz, Gizem..... | VI-324 |
| Kravitzch, Emmanuel | III-54 |
| Krishnan, Siddharth | III-234 |
| Kubli, Mael | I-438 |
| Kuhlman, Chris | VI-234, VI-324 |
| Kumar, Ravi..... | I-179 |
| Kumar, Sumeet | III-85 |
| Kwon, Young-Woo..... | V-36 |
| Kulah, Emre | II-203 |
| Lamprou, Ioannis | I-63 |
| Lancaster, Vicki | VI-324 |
| Lanza, Claudia | VI-150 |
| Latapy, Matthieu | II-183 |
| Laudanna, Sonia..... | VI-266 |
| Lax, Gianluca..... | VI-88 |
| Lazzaro, Sara..... | VI-78 |
| Lee, Ping-Hsuan..... | VI-310 |
| Lee, Roy Ka-Wei | II-314 |
| Lee, Seungwon Shawn..... | IV-114 |
| Lee, Yeonjung..... | II-203 |
| Lerman, Kristina | II-35, II-81 |
| Leung, Carson | IV-205 |
| Li, Chengkai..... | I-359 |
| Li, Yike | II-101 |
| Lian, Jiayi..... | IV-131 |
| Liang, Yueqing | III-310 |
| Lindström, Sandra..... | IV-306 |
| Liston, Katie..... | I-470 |
| Liu, Huan | II-19, III-218 |
| Liu, Nick | I-406 |
| Liu, Xueying | IV-131, VI-324 |
| Liu, Yifan | II-101 |
| Loh, Brandon Siyuan | I-294 |
| Loia, Vincenzo | V-104, VI-17 |

| | |
|-----------------------------------|---|
| Lotz, Jeffrey | V-98 |
| Lowetz, Christopher | V-70 |
| Lu, Chang-Tien | III-250, IV-114, IV-147, IV-163, IV-179 |
| Luceri, Luca | I-406 |
| Lynn, Theo | I-229, I-470 |
| Mackey, Charles | V-78 |
| Madria, Sanjay | I-343 |
| Madrigal, Manuel Sandoval | III-343 |
| Maio, Christian Di | V-152 |
| Malini, Fabio | III-170, III-295 |
| Mancenido, Michelle | II-19 |
| Mandelli, Sara | VI-32 |
| Mantzaris, Alexander | I-115 |
| Marbukh, Michael | VI-98 |
| Marbukh, Vladimir | VI-98 |
| Marcialis, Gian Luca | VI-32 |
| Marculescu, Radu | VI-188 |
| Marmulla, Gordana | II-240 |
| Masrour, Farzan | I-163 |
| Mathiak, Brigitte | III-358 |
| Matloff, Norman | I-277, IV-65 |
| Mattsson, Linn | IV-306 |
| Mauro, Giovanni | I-49 |
| Mazzoni, Federico | I-131 |
| McCulloh, Ian | V-70, V-78 |
| McGough, A. Stephen | III-125 |
| Melis, Beatrice | V-162 |
| Melton, Joshua | III-234 |
| Menczer, Filippo | I-406 |
| Meo, Pasquale De | I-245 |
| Micallef, Nicholas | III-200 |
| Micheletto, Marco | VI-32 |
| Migler, Theresa | V-98 |
| Miller, Shelly | III-44 |
| Mishra, Shivakant | III-44 |
| Mittal, Shubh | I-377 |
| Mohammadinodooshan, Alireza | III-33 |
| Moinard, Guillaume | II-183 |
| Mokhberian, Negar | II-81 |
| Mollamotalebi, Mahdi | II-111 |
| Montibeller, Andrea | VI-32 |
| Morelli, Andrea | V-152 |
| Morin, Maxence | III-110 |
| Morstatter, Fred | II-81 |
| Mosallanezhad, David | II-19 |
| Moscato, Vincenzo | I-147 |
| Mungari, Simone | VI-118 |

| | |
|-----------------------------------|---------------|
| Murata, Masayuki | II-121 |
| Murli, Sathvik | IV-131 |
| Nananukul, Navapat..... | III-266, V-62 |
| Naseem, Usman | II-314 |
| Natale, Francesco De | VI-32 |
| Nataraj, Vidhya | VI-295 |
| Nazari, Mujtaba..... | III-343 |
| Nguyen, Long | I-343 |
| Nguyen, Minh-Kha | I-422 |
| Nguyen, Quoc-Nam | I-294 |
| Nicola, Rocco De | VI-32 |
| Nicolosi, Alessandro | V-104 |
| Nijim, Mais | II-325 |
| Ninno, Gianluca De | V-162 |
| Nogara, Gianluca | I-406 |
| Nooribakhsh, Mahsa | II-111 |
| Orlando, Gian Marco | I-147 |
| Orojo, Abanisenioluwa | II-152 |
| Orrù, Giulia | VI-32 |
| Ortis, Alessandro..... | VI-32 |
| Paakki, Henna | II-214 |
| Pallis, George..... | I-79 |
| Pantelis, George | VI-108 |
| Park, Ju Yeon | I-326 |
| Pasceri, Erika | VI-150 |
| Paschalides, Demetris | I-79 |
| Pasqua, Francesco | V-31 |
| Passarella, Andrea..... | II-162 |
| Pastore, Gianmarco | V-162 |
| Pawlowski-Cherrier, Estelle | III-110 |
| Pecchia, Antonio | VI-48 |
| Perazzo, Pericle..... | VI-32 |
| Perri, Emanuele..... | V-152 |
| Petullà, Dennis | V-31 |
| Pfeffer, Jürgen..... | I-97, II-293 |
| Phukan, Orchid Chetia | IV-49 |
| Piccolo, Sebastiano | I-245 |
| Pierrì, Francesco | I-406 |
| Pizzuti, Clara..... | VI-173 |
| Poccia, Silvestro Roberto | V-31 |
| Pochamreddy, Ashutosh | IV-179 |
| Popa, Victoria | V-152 |
| Portaro, Alessio..... | VI-134 |
| Postiglione, Marco | I-147 |
| Poudel, Diwash | V-120 |
| Pratikakis, Polyvios..... | I-63 |
| Puglisi, Giovanni..... | VI-32 |

| | |
|----------------------------------|--|
| Puppala, Sai..... | III-75, IV-230, V-167, V-194, V-212, V-225, VI-334, VI-349 |
| Qi, Xiaojun..... | I-17 |
| Ranasinghe, Tharindu | I-261 |
| Ravi, Rahul | III-326 |
| Ravi, S. S..... | VI-234 |
| Razzak, Imran | II-314 |
| Re, Giuseppe | I-179 |
| Reid, Shannon | III-234 |
| Rescigno, Argentina Anna | V-162 |
| Ricci, Dora | V-183 |
| Riccio, Giuseppe | I-147 |
| Riveni, Mirela | II-260 |
| Rocetti, Marco | IV-221 |
| Rokne, Jon..... | III-326 |
| Romano, Antonio | I-147 |
| Rossetti, Giulio | I-33, I-131 |
| Rossi, Luca..... | III-157, V-241 |
| Russo, Diego | I-147 |
| Sahneh, Erfan Samieyan | I-406 |
| Sakellariou, Rizos | V-24 |
| Salvi, Davide..... | VI-32 |
| Samei, Zeynab..... | I-438 |
| Sandoval, Manuel | III-218 |
| Santos, Francisco | I-163, II-173 |
| Santos, Gustavo..... | II-271 |
| Santos, Guto Leoni..... | I-229, I-470 |
| Santos, Vitor Gaboardi dos | I-229, I-470 |
| Sargsyan, Anahit | II-293 |
| Sarkar, Shailik..... | IV-114, IV-147, IV-179 |
| Sastry, Nishanth | IV-98 |
| Scarton, Carolina..... | II-230 |
| Seba, Hamida | II-1 |
| Serna, Maria | I-197 |
| Seth, Aaditeshwar | IV-17 |
| Sha, Yuze | III-200 |
| Shaik, Abdul Raheem | IV-114, IV-147 |
| Shajari, Shadi | V-54, VI-1 |
| Shalileh, Soroosh | II-131 |
| Shang, Lanyu | II-304 |
| Sharma, Poonam | VI-250 |
| Sharma, Rajesh | IV-49 |
| Shevtsov, Alexander | I-63 |
| Shu, Kai..... | III-310 |
| Silva, Thiago | II-271 |
| Silva, Yasin | III-218, III-343 |
| Silver, Daniel | II-271 |
| Simons, Joseph J. P. | I-294 |

| | |
|--------------------------------|--|
| Sinclair, Gary | I-470 |
| Singh, Daman Deep | I-422 |
| Siriaraya, Panote | V-1 |
| Sisaengsuwanchai, Khanin | V-62 |
| Socievole, Annalisa..... | VI-173 |
| Sodré, Francis | III-170 |
| Solaiman, Ishmam..... | V-46 |
| Sorbo, Andrea Di | VI-266 |
| Sozio, Mauro..... | I-213 |
| Spanakis, Gerasimos | III-1 |
| Stanzione, Claudio | V-104 |
| State, Radu | II-1 |
| Stephens, Anna | II-173 |
| Stoica, Andrei | II-260 |
| Subramanian, Shivansh..... | II-142 |
| Sukhija, Sanatan..... | IV-17 |
| Sullivan, Esther | III-44 |
| Suryani, Muhammad Asif..... | III-358 |
| Tacchi, Jack..... | II-162 |
| Tada, Harumasa | II-121 |
| Tahir, Anique | III-218 |
| Talukder, Sajedul | III-75, IV-230, V-167, V-194, V-212, V-225, VI-334, VI-349 |
| Tamura, Yuto | III-282 |
| Tan, Pang-Ning | I-163, II-173 |
| Tardelli, Serena | II-193 |
| Taunk, Dhaval..... | II-142 |
| Taverniti, Maria | VI-134 |
| Tavolaro, Elmiro | V-31 |
| Tenace, Marco..... | IV-221 |
| Terejanu, Gabriel | III-234 |
| Terracina, Giorgio..... | I-245 |
| Tesconi, Maurizio | II-193 |
| Thapa, Surendrabikram..... | II-314 |
| Ting, I-Hsien | VI-276, VI-283 |
| Tomkins, Andrew | I-179 |
| Tonti, Claudia Melis | VI-32 |
| Toroslu, İsmail Hakkı | II-203 |
| Trotta, Pio Pasquale | VI-17 |
| Tsai, Tsung Hsun | VI-310 |
| Tsugawa, Sho..... | III-282 |
| Tubaro, Stefano | VI-32 |
| Tupakula, Mallikarjuna..... | III-85 |
| Tyson, Gareth..... | III-11, III-65 |
| Ucan, Murat | IV-246 |
| Varma, Vasudeva | II-142 |
| Varma, Vineeth..... | III-54 |
| Vasca, Francesco..... | V-183, VI-48 |

| | |
|-------------------------------|-----------------|
| Veeramani, Balaji | IV-131 |
| Villano, Umberto | VI-48 |
| Villari, Massimo | VI-32 |
| Vinci, Andrea | VI-118 |
| Vinco, Daniele De..... | III-141, VI-219 |
| Visaggio, Corrado Aaron | VI-266 |
| Vishwamitra, Nishant | II-152 |
| Vitulano, Domenico | VI-32 |
| Vries, Sybe de | III-1 |
| Wang, Dong | II-101, II-304 |
| Wang, Jiarui | I-277, IV-65 |
| Wang, Suhang | I-454 |
| Wang, Yuanyuan..... | V-1 |
| Warkentin, Noelle | IV-258 |
| Watabe, Kohei..... | III-282 |
| Waterschoot, Cedric..... | II-61 |
| Westman, Jonatan | IV-306 |
| Wilburn, John..... | II-152 |
| Wong, Liang Ze | I-294 |
| Wu, Jun-Yu | VI-295 |
| Wu, S. Felix | I-277, IV-65 |
| Wu, Shih-Hung | VI-310 |
| Wu, Yan | III-200 |
| Wu, Zongyu | I-454 |
| Yang, Pingjing | V-15 |
| Yang, Xinni..... | V-1 |
| Yari, Sara | I-438 |
| Yen, Chia Sung | VI-276 |
| Yen, Chia-Sung..... | VI-283 |
| Yousefi, Niloofar | II-282 |
| Zaied, Mourad..... | IV-81 |
| Zampieri, Marcos | I-261 |
| Zare, Darya | I-438 |
| Zareie, Ahmad..... | II-230, V-24 |
| Zenk, Lukas..... | I-97 |
| Zhang, Haiqi | I-359 |
| Zhang, Hong | I-294 |
| Zhang, Peixian | III-11, III-65 |
| Zhang, Yihong | II-51 |
| Zhang, Zeyu | I-359 |
| Zhao, Tianxiang | I-454 |
| Zhao, Ying | IV-189 |
| Zhu, Huaisheng | I-454 |
| Zhu, Yiming | III-11 |
| Zhu, Zhengyuan | I-359 |
| Zubiaga, Arkaitz | II-162 |