

## ORAL SESSIONS

Paper ID	Paper Title	Author Names	Session	Order	Topic	Day
65	Development of a PBK-Bayesian Network Framework for Gut Microbiome-Host Metabolic Modeling During the First 1000 Days of Life	Ly, Tu-Ky*; Sheraton Muniraj, Vivek	O1	1	Biological Networks	June 03, 2026
22	A Multi-Layer Computational Pipeline for Systems-Level Analysis of the Gut Microbiome	Aldaghi, tahmineh*; H Ali, Hesham; Muzik, Jan	O1	2	Biological Networks	June 03, 2027
59	A Functional Similarity Approach for Comparing Microbiomes Using Graph Matching	Kim, Suyeon; Thapa, Ishwor; Ali, Hesham*	O1	3	Biological Networks	June 03, 2028
26	The impact of different network sizes on the topological characteristics of in vitro neuronal networks	Nafez, Nahid*	O1	4	Biological Networks	June 03, 2029
21	Efficient Graph Transformer Based on Graph Partitioning	Murata, Tsuyoshi*; Ho, Tienchu	O2	1	Graph Learning	June 03, 2031
62	A Stratified Analysis of Link Prediction Fairness	Wang, Weixiang*; Soundarajan, sucheta	O2	2	Graph Learning	June 03, 2032
39	From Episodes to Abstractions: Latent Hierarchical Memory in 1,908 AI Conversations	Towell, Alexander*; Matta, John	O2	3	Graph Learning	June 03, 2033
55	CI and IQR Networks: A Network-Based Visualization of Cluster Variability	Plesniková, Kristýna*; Kudělka, Miloš; Ochodková, Eliška; Kriegová, Eva	O2	4	Graph Learning	June 03, 2034
56	A New Approximation Method for the Independent Cascade Influence Function	Požar, Matic*	O3	1	Epidemics & Diffusion	June 03, 2036
57	Optimal seeding of complex contagions for epidemic control	Ferro, Giuseppe*; Burgio, Giulio; Landry, Nicholas; Hasenjager, Matthew; Akatuhwera, Patience	O3	2	Epidemics & Diffusion	June 03, 2037
60	Dynamic Modeling of Topic Propagation in Coauthorship Networks Using Epidemiological Models	Cruz-Trani, Jorge; Robles, Ismael*; Aguirre-Guerrero, Daniela; Marcelín-Jiménez, Ricardo	O3	3	Epidemics & Diffusion	June 03, 2038
5	Decoding the Complex System of Global Hepatitis Elimination: A Network Dynamics Perspective	Wang, Zixing*; Mai, Yanpei; Shi, Yuxi	O3	4	Epidemics & Diffusion	June 03, 2039
8	Temporal Regimes and Anchor-Driven Emergence in Platform-Mediated Systems	Ferguson, Shaunette*	O4	1	Network Structure & Dynamics	June 03, 2041
45	Low- and High-Similarity Link-Prediction-Based Backbones: Roles in Diffusion and Connectivity	Yassin, Ali*; Cherifi, Hocine; Seba, Hamida; Togni, Olivier	O4	2	Network Structure & Dynamics	June 03, 2042
17	Learning Graph Features for Blind Point Cloud Quality Assessment using Hybrid Graph Convolutional Network	laazoufi, abdelouahed*; El Hassouni, Mohammed; Cherifi, Hocine	O4	3	Network Structure & Dynamics	June 03, 2043
48	Community-Aware Centrality Reveals Candidate Genes in Protein-Protein Interaction Networks	Khan, Mehwish*; Cherifi, Hocine; Malick, Rauf; Ahmed, Ghufan	O4	4	Network Structure & Dynamics	June 03, 2044
9	Temporal B2B Debt Netting: saving company illiquidities with a low-risk system	Guichon, Joannes*; Contassot-Vivier, Sylvain; Fatès, Nazim	O5	1	Financial Networks	June 04, 2026
23	Extracting Illicit-Rich Subgraphs from Transaction Networks via Feed-Guided Shortest Paths	Koshimbetov, Doniyor*; Yazıcı, Emine Şule; Rao, Asha	O5	2	Financial Networks	June 04, 2027
58	Emergent Community Structure in Large-Scale Policy Similarity Networks	Holbrook, Oliver*; Ali, Hesham	O5	3	Financial Networks	June 04, 2028
10	Volatility Spillovers and Risk Contagion Across Equities of European Banks	LUU, Duc Thi*	O5	4	Financial Networks	June 04, 2029
42	Bayesian Pattern Analysis	Myachin, Alexey*	O6	1	Foundations & Robustness of Complex Systems	June 04, 2026
12	Towards a general model of proxy failure	Banse, Paul*; Verzelli, Pietro; Barfus, Wolfram; Braganza, Oliver	O6	2	Foundations & Robustness of Complex Systems	June 04, 2027
16	Structural Contraction and Topological Distortion Under Informative Node Loss in Progressive Systems	McCormick , Kym *	O6	3	Foundations & Robustness of Complex Systems	June 04, 2028
40	Is dismantling a reduced graph comparable to dismantling the original?	Zakroum, Anas*; Interdonato, Roberto; Degegne, Pascal; Roche, Mathieu; Lo Seen, Danny	O6	4	Foundations & Robustness of Complex Systems	June 04, 2029
37	Web Crawler Restrictions, AI Training Datasets & Political Biases	Bouchaud, Paul*; Ramaciotti, Pedro	O7	1	AI for Complex Systems	June 04, 2026
25	LAMAE-Mem: A Three-Tier Memory Architecture for Long-Term, Emotion-Aware LLM Agents	Ghanem, Hussam*; Ait-Kbir, Fatima; Cruz, Christophe; Cherifi, Hocine	O7	2	AI for Complex Systems	June 04, 2027
15	Sterile mosquito release via intelligent proportional controllers	Join, Cédric; Almeida, Luis; Fliess, Michel*	O7	3	AI for Complex Systems	June 04, 2028
34	Unravelling Nature's Models for Transportation Network: Considering a Biomimicry Framework	Madmar, Sofiane*; Josselin, Didier; Blight, Olivier; Labatut, Vincent; Mazza, Christophe; Ciliot-Travain, Marc	O7	4	AI for Complex Systems	June 04, 2029
44	Emergent Network Organization from Exploration-Driven Distributed Rewiring	Muñoz-García, Jorge Alberto; Marcelín-Jiménez, Ricardo; Aguirre-Guerrero, Daniela*; Lopez-Chavira, Magali Alexander	O8	1	Self-Organizing Systems	June 04, 2026
30	Consumption and competition as drivers of food web structure: insights from an evolutionary dynamical model	Laplanche, Christophe*	O8	2	Self-Organizing Systems	June 04, 2027
18	Introduction to Traits Extension of Schelling Model of Segregation	Mazumdar, Anghuman*; Whittinghill, David	O8	3	Self-Organizing Systems	June 04, 2028
49	Management of multi-modal transportation systems based on self-organization	Lebacque, Jean-Patrick*; Khoshyaran, Megan	O8	4	Self-Organizing Systems	June 04, 2029
46	Temporal Dynamics of Social Balance in Fictional Character Networks	Ivanova, Larisa*; Großmann, Gerrit	O9	1	Dynamics of Information, Semantics, and Interac	June 05, 2026
63	Semantic Frames as Nodes in a Dynamic Network: A Formal Graph-Theoretic Model of Maritime Meteorological Discourse	Theroine, Sarah; Ascione, Gennaro; CRUZ, CHRISTOPHE*; Gautier, Laurent	O9	2	Dynamics of Information, Semantics, and Interac	June 05, 2027
20	How do individual communication modalities perturb conversation dynamics?	Wuensche, Mark*; Spaniol, Malin; Grice, Martine; Vogeley, Kai	O9	3	Dynamics of Information, Semantics, and Interac	June 05, 2028
41	Decision Support for Hard Cold-Start Organisation Recommendation in Horizon Europe Cancer Projects	Jamali, Ahmadali*	O9	4	Dynamics of Information, Semantics, and Interac	June 05, 2029
28	Differences in misinformation diffusion patterns can be explained by sampling choices	Vrančić, Ana*; Perfeito, Lília; Almeida, Paulo; Gonçalves-Sá, Joana	O10	1	Social Media, Misinformation, and Hidden Socio	June 05, 2026
36	Tracking Inauthentic Amplification on Social Media: A Scalable Method to Detect Duplicated Messages	Bouchaud, Paul*; Ramaciotti, Pedro; Richard, Manon; Mustar, Agnès; Brokate, Cristián	O10	2	Social Media, Misinformation, and Hidden Socio	June 05, 2027
19	Temporal Graph Networks for Hidden Route Discovery in Partially Observed Human Trafficking Systems	Magid, Michael*; Landman, Todd; Cingranelli, David ; Ertem, Melissa	O10	3	Social Media, Misinformation, and Hidden Socio	June 05, 2028
54	Using a dataset of 21,500 news articles from five countries, we analyze media attention across the political spectrum during the 2024 E	Damião, Íris; Gonçalves-Sá, Joana *	O10	4	Social Media, Misinformation, and Hidden Socio	June 05, 2029

## POSTER SESSIONS

Paper ID	Paper Title	Author Names	Session	Order	Topic	Day
31	Deterministic dynamics of distributional multi-agent reinforcement learning	Bergerot, Clemence*; Romanczuk, Pawel; Barfuss, Wolfram	P1	1	Network Structure, Learning, and Dynamics	June 03, 2036
35	The dynamics and complexity of binary sequences from vowels in written texts	Guzman-Vargas, Lev*; Carrizales, Carlos; Obregon-Quintana, Bibiana; Luviano-Juarez, Alberto; Lozada-Castillo, Nor	P1	2	Network Structure, Learning, and Dynamics	June 03, 2037
14	Mean-Field Equilibria and Consensus in Heterogeneous Softmax Social Learning	Chaddad, Sylvie*; Hayel, Yezekael; S. Varma, Vineeth; Gast, Nicolas	P1	3	Network Structure, Learning, and Dynamics	June 03, 2038
50	Learning Before Locking In: Network Uncertainty Inverts the Option Value of Precautionary Conservation	Gurchani, Umer*	P1	4	Network Structure, Learning, and Dynamics	June 03, 2039
11	Detection of Ripple-on-Spike on Single-channel Scalp EEG with Asynchronous Delta Modulation and Random Forest	Yeguenian, Nina*; Hu, Dinghan; Cao, Jiuwen	P2	1	Applications of Complex Systems	June 04, 2026
24	An Empirical Study of Average Network Flow as an Indicator for Resilience	Desbois, Malo*; Charles, Aurélie; Kahn, Giacomo; Bouleux, Guillaume	P2	2	Applications of Complex Systems	June 04, 2027
43	A Hybrid Structural-Statistical Framework for Backbone Extraction in Air Transportation Networks	AIDARA, Ndeye khady*; Diop, Issa Moussa ; Diallo, Cherif; Cherifi, Hocine	P2	3	Applications of Complex Systems	June 04, 2028
61	Topological and Fractal Feature Analysis of Colonoscopy Polyps Using Deep Learning Segmentation	Gallegos, Ricardo; Ponce, Zeus; Carrizales, Carlos; Castillo, Cristian; Flores, María; Anzueto, Álvaro; Guzman, Lev*	P2	4	Applications of Complex Systems	June 04, 2029
29	The Interactions Between Anthroposystem of Le Lamentin (Martinique) and its Environment	HIREP, LIONEL*	P2	5	Applications of Complex Systems	June 04, 2030