

Technical Program - CSoNet 2022

December 5-7, 2022

All times listed here are EST (Eastern Standard Time)

December 5, 2022	
09:00 - 09:15	Welcome and Opening Remarks
09:15 - 09:30	Remarks from TPC co-chairs and Best Papers Awards Announcement
09:30 - 10:30	Keynote Speech Chair: Thang N. Dinh Speaker: Prof. Osvaldo Simeone Title: Reliable AI for Communication Systems: Algorithms and Enabling Technologies
10:30 - 11:30	Keynote Speech Chair: Trung Q. Duong Speaker: Prof. H. Vincent Poor Title: Federated Learning at the Wireless Edge
11:40 - 12:40	Opening Session. Chair: Thang N. Dinh
	<p>Incorporating Neighborhood Information and Sentence Embedding Similarity into a Repost Prediction Model in Social Media Networks <i>Zhecheng Qiang, Eduardo Pasilliao, Alexander Semenov and Qipeng Phil Zheng.</i></p> <p>Competitive influence maximisation with nonlinear allocations <i>Sukankana Chakraborty and Sebastian Stein</i></p> <p>Social Network Analysis of the Caste-Based Reservation System in India <i>Akrati Saxena, Sudarshan Iyengar, Nivedita Sethiya, Jaspal Saini and Yayati Gupta</i></p>
12:40-13:30	Lunch
13:30-14:30	Session 2: Machine Learning and Prediction I Chair: Cherif Diallo

	<p>Driving factors of polarization on Twitter during protests against COVID-19 mitigation measures in Vienna <i>Marcus Röckl, Maximilian Paul, Andrzej Jarynowski, Alexander Semenov and Vitaly Belik.</i></p> <p>Categorizing Memes about the Ukraine Conflict <i>Keyu Chen, Ashley Feng, Rohan Aanegola, Koustuv Saha, Allie Wong, Zach Schwitzky, Roy Ka-Wei Lee, Robin O'Hanlon, Munmun De Choudhury, Frederick L Altice, Kaveh Khoshnood and Navin Kumar</i></p> <p>Scientometric Data Mining for Journals and Chief Editors: A Case Study in Artificial Intelligence (AI) Domain <i>Salim Sazzed</i></p>
14:30-14:40	Break
14:40-16:00	Session 3: Security and Blockchain Chair: Hong-sheng Zhou
	<p>An Implementation and Evaluation of Layer 2 for Ethereum with zk-Rollup <i>Tran C. An, Vu Vo Thanh and Hai Thanh Nguyen</i></p> <p>Targeted Attack of the Air Transportation Network Global Component <i>Issa Moussa Diop, Chantal Cherifi, Cherif Diallo and Hocine Cherifi</i></p> <p>Measuring Cryptocurrency Mining in Public Cloud Services: A Security Perspective <i>Ayodeji Adeniran and David Mohaisen.</i></p> <p>Do Content Management Systems Impact the Security of Free Content Websites? <i>Mohammed Alqadhi, Abdulrahman Alabduljabbar, Kyle Thomas, Saeed Salem, Daehun Nyang and David Mohaisen</i></p>

December 6, 2022

09:00 – 10:00	Keynote Speech Speaker: Prof. Weijia Jia Title: AI Powered Edge Scheduling	Chair: Xiaofeng Gao
10:00-10:10	Break	
10:10-11:50	Session 4: Machine Learning & Prediction II	Chair: Anurag Singh
	<p>Link Prediction of Complex Networks based on Local Path and Closeness Centrality <i>Min Li, Shuming Zhou and Gaolin Chen</i></p> <p>Price and color of abstract paintings. Is there a connection? <i>Maksim Borisov, Alexander Semenov, Dmitry Grigoriev and Valeria Kolycheva</i></p> <p>ELA: A Time-Series Forecasting Model for LinerShipping Based on EMD-LSTM and Attention <i>Jiadong Chen, Xiaofeng Gao and Guihai Chen</i></p> <p>Knowledge transfer via word alignment and its application to Vietnamese POS tagging <i>Hao Do</i></p> <p>A group clustering recommendation approach based on energy distance <i>Tu Tran, Lan Phan and Hiep Huynh</i></p>	
11:50-12:50	Lunch	
12:50-14:30	Session 5: Fact-checking, Fake News, and Hate Speech	Chair: Andrzej Jarynowski

	<p>BNnetXtreme: An enhanced methodology for Bangla fake news detection online <i>Zaman Wahid, Abdullah Al Imran and Md Rifatul Islam Rifat</i></p> <p>Heuristic Gradient Optimization Approach to Controlling Susceptibility to Manipulation in Online Social Networks <i>Abiola Osho, Shuangqing Wei and George Amariuca</i></p> <p>Identifying Targeted and Generalized Offensive Speech from Anti-Asian Social Media Conversations <i>Payal Shah and Swapna Gokhale</i></p> <p>US News and Social Media Framing around Vaping <i>Keyu Chen, Marzieh Babaeianjelodar, Yiwen Shi, Rohan Aanegola, Lam Yin Cheung, Preslav Ivanov Nakov, Shweta Yadav, Angus Bancroft, Ashiqur R. Khudabukhsh, Munmun De Choudhury, Frederick L. Altice and Navin Kumar</i></p> <p>Impact of Geographic Factors on Friendship Link Patterns and Influence Cascade Propagation in Social Media Networks: a Case of VK.com <i>Alexander Semenov, Alexander Nikolaev, Eduardo Pasilliao and Vladimir Boginski</i></p>
<p>December 7, 2022</p>	
<p>9:00 – 10:00</p>	<p>Session 6: Network Analysis Chair: Vladimir Boginski</p>
	<p>Structure, stability, persistence and entropy of stock networks during financial crises <i>Nawee Jaroonchokanan, Teerasit Termsaithong and Sujin Suwanna</i></p> <p>A Community Detection Algorithm using Random Walk <i>Rajesh Vashishtha, Anurag Singh and Hocine Cherifi</i></p> <p>Learning Heuristics for the Maximum Clique Enumeration Problem Using Low Dimensional Representations <i>Ali Baran Taşdemir, Tuna Karacan, Emir Kaan Kırmacı and Lale Özkahya</i></p>

10:00 – 10:10	Break
10:10 – 11:30	Session 7: Optimization Chair: Lale Özkahya
	<p>Frank Wolfe Algorithm for Nonmonotone One-sided Smooth Function Maximization Problem <i>Hongxiang Zhang, Chunlin Hao, Wenying Guo and Yapu Zhang</i></p> <p>Non-monotone k-submodular function maximization with individual size constraints <i>Hao Xiao, Qian Liu, Yang Zhou and Min Li</i></p> <p>A Heuristic Algorithm for Student-Project Allocation Problem <i>Nguyen Thi Uyen, Giang L Nguyen, Canh V Pham, Tran Xuan Sang and Hoang Huu Viet</i></p> <p>Online File Caching on Multiple Caches in Latency-Sensitive Systems <i>Guopeng Li, Chi Zhang, Hongqiu Ni and Haisheng Tan</i></p>
11:30 – 11:40	Concluding remarks