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: Minming Li** **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
	Incorporating Neighborhood Information and Sentence Embedding Similarity into a Repost Prediction Model in Social Media Networks *Zhecheng Qiang, Eduardo Pasiliao, Alexander Semenov and Qipeng Phil Zheng.* Competitive influence maximisation with nonlinear allocations *Sukankana Chakraborty and Sebastian Stein* Social Network Analysis of the Caste-Based Reservation System in India *Akrati Saxena, Sudarshan Iyengar, Nivedita Sethiya, Jaspal Saini and Yayati Gupta*
12:40-13:30	Lunch
13:30-14:30	Session 2: Machine Learning and Prediction I Chair: TBD

	Driving factors of polarization on Twitter during protests against COVID-19 mitigation measures in Vienna *Marcus Röckl, Maximilian Paul, Andrzej Jarynowski, Alexander Semenov and Vitaly Belik.* Categorizing Memes about the Ukraine Conflict *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* Scientometric Data Mining for Journals and Chief Editors: A Case Study in Artificial Intelligence (AI) Domain *Salim Sazzed*
14:30-14:40	Break
14:40-16:00	Session 3: Security and Blockchain Chair: TBD
	An Implementation and Evaluation of Layer 2 for Ethereum with zk-Rollup *Tran C. An, Vu Vo Thanh and Hai Thanh Nguyen* Targeted Attack of the Air Transportation Network Global Component *Issa Moussa Diop, Chantal Cherifi, Cherif Diallo and Hocine Cherifi* Measuring Cryptocurrency Mining in Public Cloud Services: A Security Perspective *Ayodeji Adeniran and David Mohaisen.* Do Content Management Systems Impact the Security of Free Content Websites? *Mohammed Alqadhi, Abdulrahman Alabduljabbar, Kyle Thomas, Saeed Salem, Daehun Nyang and David Mohaisen*

December 6, 2022	
09:00 – 10:00	**Keynote Speech** Chair: Xiaofeng Gao **Speaker: Prof. Weijia Jia** **Title: AI Powered Edge Scheduling**
10:00-10:10	Break
10:10-11:50	Session 4: Machine Learning & Prediction II Chair: TBD
	Link Prediction of Complex Networks based on Local Path and Closeness Centrality *Min Li, Shuming Zhou and Gaolin Chen* Price and color of abstract paintings. Is there a connection? *Maksim Borisov, Alexander Semenov, Dmitry Grigoriev and Valeria Kolycheva* ELA: A Time-Series Forecasting Model for LinerShipping Based on EMD-LSTM and Attention *Jiadong Chen, Xiaofeng Gao and Guihai Chen* Knowledge transfer via word alignment and its application to Vietnamese POS tagging *Hao Do* A group clustering recommendation approach based on energy distance *Tu Tran, Lan Phan and Hiep Huynh*
11:50-12:50	Lunch
12:50-14:30	Session 5: Fact-checking, Fake News, and Hate Speech Chair: Thang Dinh

	BNnetXtreme: An enhanced methodology for Bangla fake news detection online *Zaman Wahid, Abdullah Al Imran and Md Rifatul Islam Rifat* Heuristic Gradient Optimization Approach to Controlling Susceptibility to Manipulation in Online Social Networks *Abiola Osho, Shuangqing Wei and George Amariucai* Identifying Targeted and Generalized Offensive Speech from Anti-Asian Social Media Conversations *Payal Shah and Swapna Gokhale* US News and Social Media Framing around Vaping *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* Impact of Geographic Factors on Friendship Link Patterns and Influence Cascade Propagation in Social Media Networks: a Case of VK.com *Alexander Semenov, Alexander Nikolaev, Eduardo Pasiliao and Vladimir Boginski*
	December 7, 2022
9:00 – 10:00	Session 6: Network Analysis Chair: TBD
	Structure, stability, persistence and entropy of stock networks during financial crises *Nawee Jaroonchokanan, Teerasit Termsaithong and Sujin Suwanna* A Community Detection Algorithm using Random Walk *Rajesh Vashishtha, Anurag Singh and Hocine Cherifi* Learning Heuristics for the Maximum Clique Enumeration Problem Using Low Dimensional Representations *Ali Baran Taşdemir, Tuna Karacan, Emir Kaan Kırmacı and Lale Özkahya*

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