Technical Program - CSoNet 2021

November 15-17, 2021

All times listed here are EST (Eastern Standard Time)

	November, 15, 2021
9:00 - 9:10	Welcome and Opening Remarks
9:10 - 9:30	Remarks from TPC co-chairs and Best Papers Awards Announcement
9:30-10:30	Opening Session Chair: Ruoming Jin
	Causal Inference for Influence Propagation Identifiability of the Independent Cascade Model Shi Feng and Wei Chen
	Recovering Communities in Temporal Networks Using Persistent Edges Konstantin Avrachenkov, Maximilien Dreveton and Lasse Leskelä
	Streaming Algorithms for Maximizing Non-submodular Functions on the Integer Lattice Bin Liu, Zihan Chen, Huijuan Wang and Weili Wu
10:30-10:40	Break
10:40-12:00	Session 1: Machine Learning and Applications Chair: Khoa Phan
	AdvEdge: Optimizing Adversarial Perturbations against Interpretable Deep Learning Eldor Abdukhamidov, Mohammed Abuhamad, Firuz Juraev, Eric Chan-Tin and Tamer Abuhmed A Deep Learning Based Traffic Sign Detection for Intelligent Transportation Systems Bao-Long Le, Gia-Huy Lam, Xuan-Vinh Nguyen, The-Manh Nguyen, Quoc-Loc Duong, Quang Dieu Tran, Trong-Hop Do and Nhu-Ngoc Dao Incorporating Transformer Models for Sentiment Analysis and News Classification in Khmer Md Rifatul Islam Rifat and Abdullah Al Imran MIC Model for Cervical Cancer Risk Factors Deep Association Analysis Tiehua Zhou, Yingxuan Tang, Ling Gong, Hua Xie, Minglei Shan and Ling Wang
12:00-12:40	Lunch
12:40-14:40	Session 2: Heathcare Analysis Chair: Yang Zhou
	Security Breaches in the Healthcare Domain: A Spatiotemporal Analysis Mohammed Al Kinoon, Marwan Omar, Manar Mohaisen and David Mohaisen

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	Twitter Analysis of Covid-19 Misinformation in Spain Diego Saby, Olivier R. Philippe, Nataly Buslon, Javier del Valle, Oriol Puig, Ramón Salaverría and María José Rementeria
	Social and Motivational Factors for the Spread of Physical Activities in a Health Social Network Nhathai Phan, David Kil, Brigitte Piniewski and Dejing Dou
	Understanding the Issues Surrounding COVID-19 Vaccine Roll Out Via User Tweets
	Jose Esparza, Gissella Bejarano, Arti Ramesh and Anand Seetharam
	Social Cohesion During Stay-at-Home Phase During the First Wave of COVID-19 in Poland
	Andrzej Jarynowski, Alexander Semenov, Monika Wójta-Kempa and Vitaly Belik
	Summarization Algorithms for News: a Study of the Coronavirus Theme and its Impact on the News Extracting Algorithm Lyudmila Gadasina, Vladislav Veklenko and Pasi Luukka
14:40-14:50	Break
14:50-16:10	Session 3: Complex Network Analysis Chair: Hai Phan
	Community Detection using Semilocal Topological Features and Label Propagation Algorithm Akrati Saxena, Ralucca Gera and Deepanshu Malhotra Comparing Community-aware Centrality Measures in Online Social Networks Stephany Rajeh, Marinette Savonnet, Eric Leclercq and Hocine Cherifi A Framework for Accelerating Graph Convolution Networks on Massive Datasets Xiang Li, Ruoming Jin, Rajiv Ramnath and Gagan Agrawal Influence and Activation Thresholds Target Set Selection within Community Structure Zhecheng Qiang, Eduardo Pasiliao and Qipeng Zheng
	November 16, 2021
9:00-10:00	Keynote Speech Speaker: Prof. Walid Saad Title: Distributed Machine Learning in Wireless Networks: Challenges and Opportunities
10:00-10:10	Break
10:10-12:10	Session 4: Crowdsourcing and Influences Chair: Abdellah Chehri
	Streaming Algorithms for Budgeted \$k\$-Submodular Maximization Problem Canh Pham, Dung Ha, Quang Vu and Tai Nguyen

	When Manufacturer Builds the External Developer Network: Effects of Crowdsourcing Design Ping Yan and Jun Pei
	Data-driven Integrated Production Planning and Scheduling in Supply Chain Network: New Paradigm and Two-stage Collaborative Algorithm Ya Zhou and Jun Pei
	Deep Bangla Authorship Attribution using Transformer Models Abdullah Al Imran and Md Nur Amin
	Network based Framework to Compare Vaccination Strategies Rishi Ranjan Singh, Amit Kumar Dhar, Arzad Alam Kherani, Naveen Varghese Jacob, Devansh Bajpai and Ashitabh Misra
	Detecting Hate Speech Contents Using Embedding Models Phuc Duong
12:10-13:00	Lunch
13:00-14:20	Session 5: Network Analysis Chair: Duy Nguyen
	Power Grid Cascading Failure Prediction Based on Transformer Tianxin Zhou, Xiang Li and Haibing Lu Two-Tier Cache-Aided Full-Duplex Content Delivery in Satellite-Terrestrial Networks Quynh Ngo, Khoa Phan, Wei Xiang, Abdun Mahmood and Jill Slay Social Activity and Decentralized Applications in Blockchain-based Social Networks Cheick Tidiane Ba, Galdeman Alessia, Matteo Zignani and Sabrina Gaito Transfer Learning and Loan Default Prediction Tzvi Feinberg, Alexander Semenov, Yongpei Guan, Dmitry Grigoriev and Artem Prokhorov
14:20:14:30	Break
14:30-16:10	Session 6: Fact-Checking, Fake News and Malware Detection
	Chair: Arcangelo Castiglione
	Fake News Detection using LDA Topic Modelling and K-Nearest Neighbor Classifier
	Francesco Colace, Mario Casillo and Domenico Santaniello
	Vulnerabilities Assessment of Deep Learning-based Fake News Checker under Poisoning Attacks Fiammetta Marulli, Lelio Campanile, Mauro Iacono, Michele Mastroianni and
	Pasquale Cantiello

	Mean User-Text Agglomeration (MUTA): Practical User Representation and Visualization for Detection of Online Influence Operations Evan Crothers, Herna Viktor and Nathalie Japkowicz The Role of Information Organization and Knowledge Structuring in Combatting Misinformation: A Literary Analysis Kevin Matthe Caramancion Machine Learning Technique for Fake News Detection Using Text-Based Word Vector Representation Akshat Gaurav, B B Gupta, Ching-Hsien Hsu, Arcangelo Castiglione and Kwok Tai Chui
	November 17, 2021
9:00-10:00	Keynote Speech Speaker: Prof. Dusit Niyato Title: Reliable Federated Learning for Mobile Networks
10:00-10:10	Break
10:10-12:10	Session 7: Optimization Chair: Alexander Semenov
	Approximation Algorithm for Maximizing Nonnegative Weakly Monotonic Set Functions Min Cui, Donglei Du, Dachuan Xu and Ruiqi Yang
	Groups Influence with Minimum Cost in Social Network Phuong Pham, Canh Pham, Hieu Duong, Thanh Nguyen and My T. Thai
	Differentially Private Submodular Maximization over Integer Lattice Jiaming Hu, Dachuan Xu, Donglei Du and Cuixia Miao
	Maximizing the Sum of a Supermodular Function and a Monotone DR-submodular Function Subject to a Knapsack Constraint on the Integer Lattice Jingjing Tan, Yicheng Xu, Dongmei Zhang and Xiaoqing Zhang
	Approximation algorithms for the lower bounded correlation clustering problem Sai Ji, Yinhong Dong, Donglei Du and Dachuan Xu
	Minimize Travel Time with Traffic Flow Density Equilibrium on Road Network Qinghua Tang, Demin Li, Shuang Zhou and Yue Fu

Concluding remarks

12:10-12:20