

Session REU 1 - Tuesday, December 06 morning 09:00-10:20

Chair: Dr. Jianwu Wang

1411	<b>Multi-Layer Recurrent Neural Networks for the Classification of Compton Camera Based Imaging Data for Proton Beam Cancer Treatment</b>	Joseph Clark, Anaise Gaillard, Justin Koe, Nithya Navarathna, Daniel Kelly, Matthias Gobbert, Carlos Barajas and Jerimy Polf
1175	<b>Networked and Multimodal 3D Modeling of Cities for Collaborative Virtual Environments</b>	Benjamin Hall, Joseph Kessler, Osayamen Edo-Ohanba, Jaired Collins, Haoxiang Zhang, Nick Allegreti, Ye Duan, Songjie Wang, Kannappan Palaniappan and Prasad Calyam
175	<b>Population-Based Hierarchical Non-Negative Matrix Factorization for Survey Data</b>	Xiaofu Ding, Xinyu Dong, Olivia McGough, Amy Shen, Annie Ulichney, Ruiyao Xu, William Swartworth, Jocelyn Chi and Deanna Needell
847	<b>Differences in Monitoring the DNS Root Over IPv4 and IPv6</b>	Tarang Saluja, John Heidemann and Yuri Pradkin

Session REU 2 - Tuesday, December 06 morning 10:30-11:50

Chair: Dr. Jianwu Wang

2969	<b>Accuracy, Fairness, and Interpretability of Machine Learning Criminal Recidivism Models</b>	Eric Ingram, Furkan GURSOY and Ioannis Kakadiaris
6712	<b>Accuracy-Fairness Tradeoff in Parole Decision Predictions: A Preliminary Analysis</b>	John William Gardner, Furkan GURSOY and Ioannis Kakadiaris
4384	<b>Data Quality and Linguistic Cues for Domain-independent Deception Detection</b>	Casey Hanks and Rakesh Verma
5551	<b>Understanding DNS Query Composition at B-Root</b>	Jacob Ginesin and Jelena Mirkovic

Session REU 3 - Tuesday, December 06 afternoon 13:00-14:20

Chair: Dr. Matthias Gobbert

6082	<b>Simulated Forest Environment and Robot Control Framework for Integration with Cover Detection Algorithms</b>	Avi Spector, Wanying Zhu, Jumman Hossain and Nirmalya Roy
8631	<b>Image Processing and Machine Learning for Tumor Tissue Detection Using MRI Images in Bacteria Based Cancer Therapy</b>	Sarah Hodges, Emily Hitchcock, Kevin Zuang, Rosy Lu, Yuanwei Jin, Qihong He and Enyue Lu
2921	<b>An Experimental Analysis on Mining Proportional Process Patterns from Process Logs</b>	Joo-Eun Bae, Jin-Hyoung Lee, So-Hyang Park, Young-In Park, Kyoung-Sook Kim and Kwang-Hoon Kim
5066	<b>Focused Stochastic Neighbor Embedding</b>	Rafael Ramirez, Sanuj Kumar, Tuan Le and Huiping Cao

Session REU 4 - Tuesday, December 06 afternoon 14:30-15:50

Chair: Dr. Matthias Gobbert

3981	<b>Iterative Methods for Multi-objective Optimization in Fair Machine Learning</b>	Sean Wang, Arielle Carr and Sihong Xie
5673	<b>FaultHunter: Automatically Detecting Vulnerabilities in C against Fault Injection Attacks</b>	Logan Reichling, Ikran Warsame, Shane Reilly, Austen Brownfield, Nan Niu and Boyang Wang
2286	<b>Identifying Evolution of Software Metrics by Analyzing Vulnerability History in Open Source Projects</b>	Erik Maza and Kazi Zakia Sultana
4410	<b>Reconstructing High-Dimensional Datasets From Their Bivariate Projections</b>	Eli Dugan and Klaus Mueller