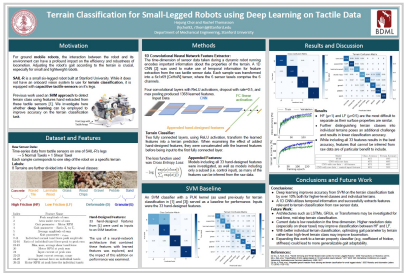
CS 229 projects, Spring 2020

All project posters and reports



Terrain Classification for Small Legged Robots Using Deep Learning on Tactile Data

General Machine Learning

Hojung Choi, Rachel Thomasson

[report][poster]

Application of machine learning methods to identify and categorize radio pulsar signal candidates

Physical Sciences

Serena Debesai, Carmen Gutierrez, Nazli Ugur Koyluoglu

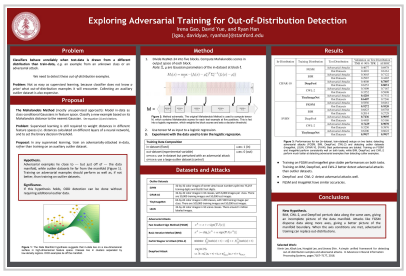
[report]

Using Machine Learning Models to Predict S&P500 Price Level and Spread Direction

Finance & Commerce

Alex Fuster, Zhichao Zou

[report]



Exploring Adversarial Training for Out-of-Distribution Detection

General Machine Learning

Irena Gao, Ryan Han, David Yue

[report] [poster]

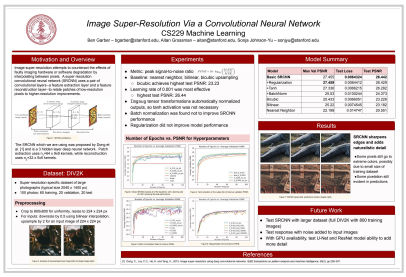


Image Super-Resolution Via a Convolutional Neural Network

Computer Vision

Ben Garber, Aitan Grossman, Sonja Johnson-Yu

[report] [poster]

Measuring and Incorporating Correlations in Generative Adversarial Networks

General Machine Learning

Vishesh Gupta

[report]

Classification of Legal Text

Finance & Commerce

Krithika Iyer

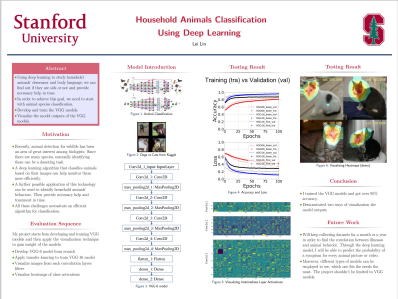
[report]

Pancreatic cancer prognosis using clinical and radiomic data

Life Sciences

Arash Jamalian

[report]

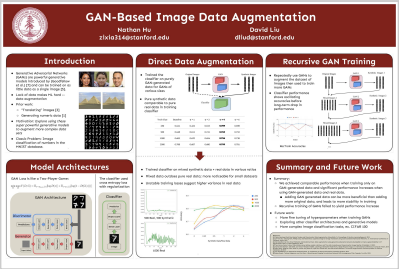


Household Animals Classification Using Deep Learning

Computer Vision

Lei Lin

[report] [poster]



GAN-Based Image Data Augmentation

Computer Vision

David Liu, Nathan Hu

[report] [poster]

Semi-supervised Segmentation of Brain MRI Images

Life Sciences

Ali Mottaghi

[report]

Using LSTM and SARIMA Models to Forecast Cluster CPU Usage

General Machine Learning

Langston Nashold, Rayan Krishnan

[report]

Predicting a Decline in Patient Reported Outcomes for Cancer Patients on Chemotherapy

Life Sciences

Nicolai Ostberg, Dylan Peterson

[report]

Vision-Based Precision Pose Estimation For Autonomous Formation Flying

General Machine Learning

Rohan Punnoose

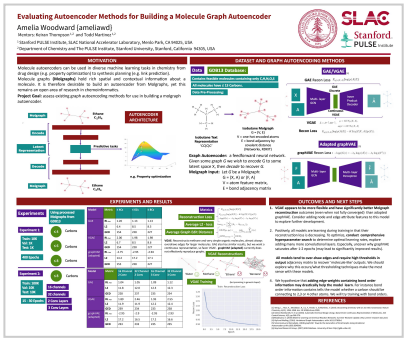
[report]

CS229: Final Report

Finance & Commerce

Kun Qian, Xingzi Xu, Emily You

[report]



Evaluating Autoencoder Methods for Building a Molecule Graph Autoencoder

General Machine Learning/Physical Sciences

Amelia Woodward

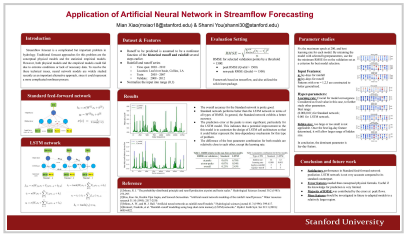
[report] [poster]

Machine Learning based classification for Sentimental analysis of IMDb reviews

Natural Language

Chun-Liang Wu, Song-Ling Shin

[report]

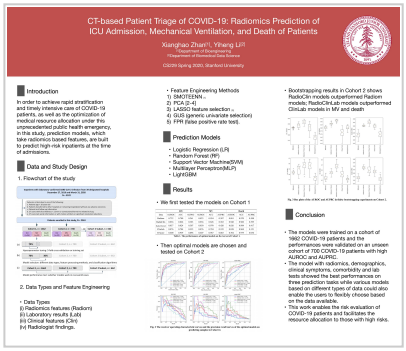


Application of Artificial Neural Network in Streamflow Forecasting

Physical Sciences

Mian Xiao, Shanni You

[report] [poster]



CT-based Patient Triage of COVID-19: Radiomics Prediction of ICU Admission, Mechanical Ventilation, and Death of Patients

Life Sciences

Xianghao Zhan, Yiheng Li

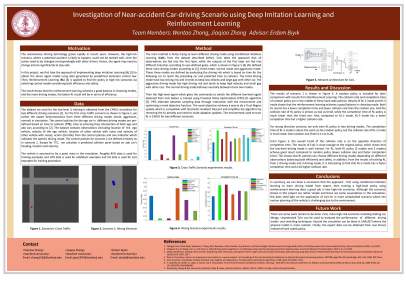
[report] [poster]

Data Driven Solutions and Discoveries in Mechanics Using Physics Informed Neural Network

Physical Sciences

Qi Zhang, Yilin Chen, Ziyi Yang

[report]

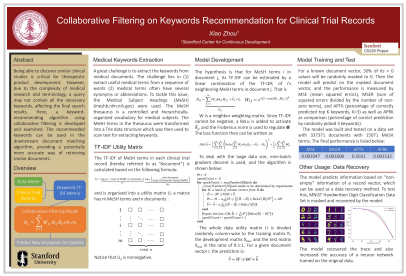


Investigation of Near-accident Car-driving Scenario using Deep Imitation Learning and Reinforcement Learning

Theory & Reinforcement Learning

Wentao Zhong, Jiaqiao Zhang

[report] [poster]



Collaborative Filtering on Keywords Recommendation for Clinical Trial Records

General Machine Learning

Xiao Zhou

[report] [poster]