Unstructured Data Mining and Machine Learning Lab -

Prof. Sunghoon Lim, School of Management Engineering

Development of machine learning models for effective knowledge discovery from unstructured data

Unstructured Data



Video Clips from Dashboard Cameras



Freddit Google+

File Freddit Google+

Facebook Linked in NG

Formula Pinterest Neetve

Words delicious ding

Mords delicious ding

Myspace

Social Media Data



Methodology

Domain Knowledge
Extraction from
Application Domains



Machine Learning
Model
Development

New Knowledge Discovery



Safety Management



New Disease Detection



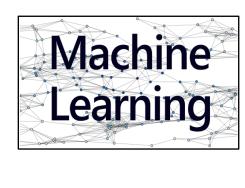
Predictive Maintenance

Machine Learning









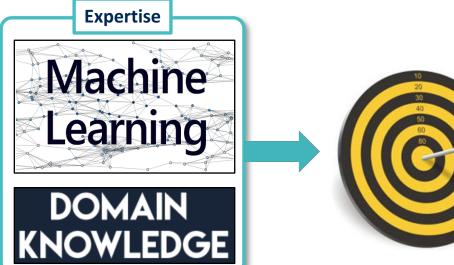


Machine Learning + Domain Knowledge: Our Research

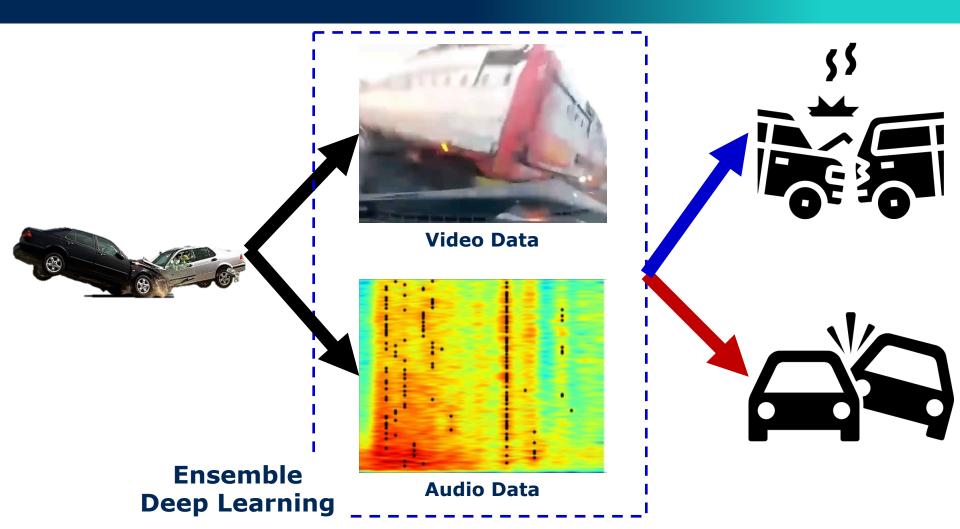




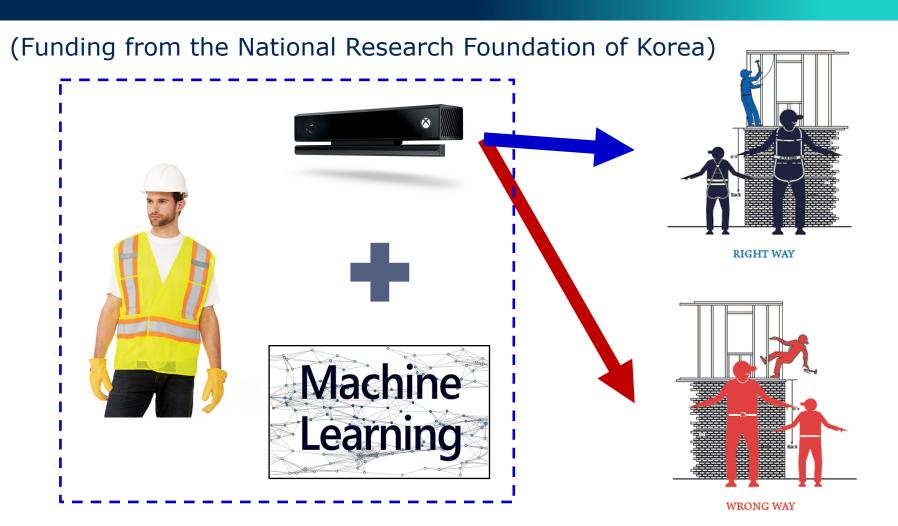




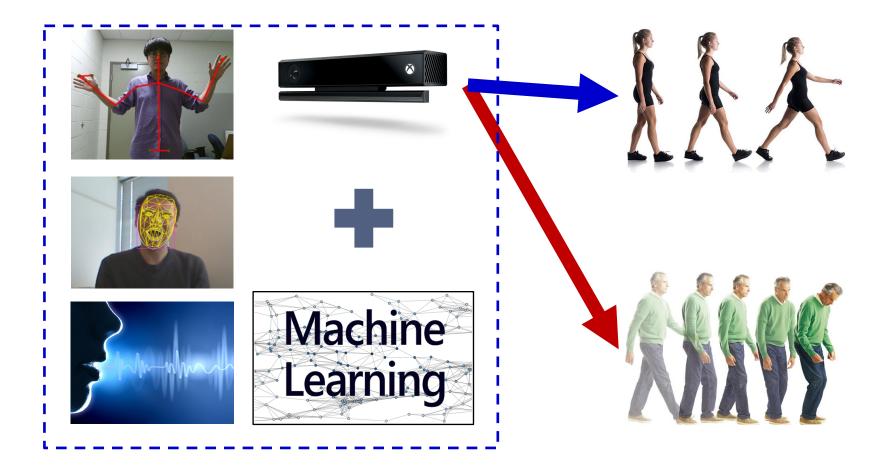
Car Crash Detection Using Ensemble Deep Learning



Safety Management Using Machine Learning

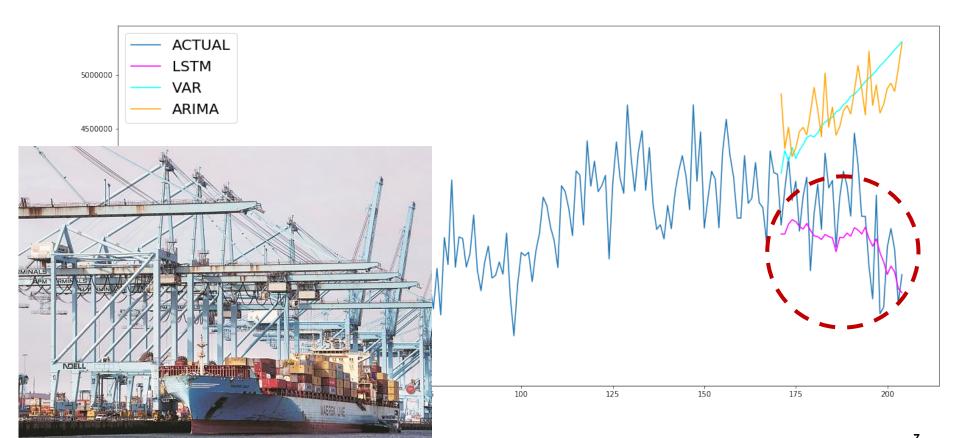


Parkinson Disease Detection Using Machine Learning

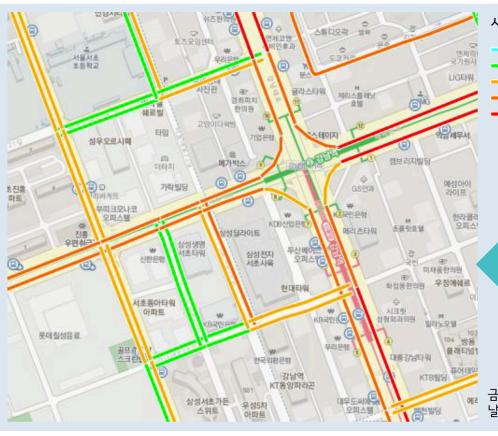


Liquid Cargo Traffic Prediction Using Deep Learning (LSTM)

(Funding from UNIST-Ulsan Port Authority Smart Port Logistics Data Center)



Taxi Demand Prediction Using Deep Learning



시간당평균 빈차횟수

- 1회~5회
- 6호|~20호|
- -- 21회~60회
- 61회~200회
- 200회 이상



금요일 23시30분 ~ 24시 날씨 맑음

Matching Babysitters and Parents Using Machine Learning

Developing Recommender Systems Using Machine Learning Techniques



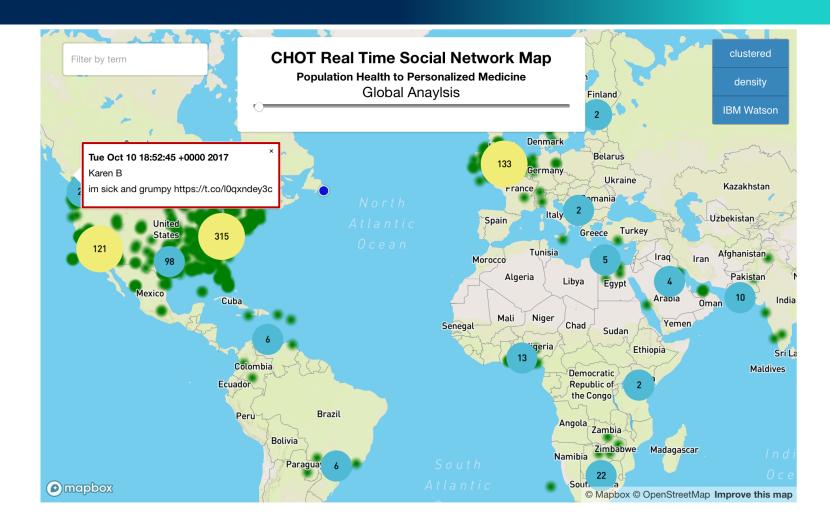




Predictive Maintenance Using Machine Learning



Disease Prediction Using Machine Learning and Online Data



Judgement Analysis Based on Crowdsourced Opinions

(Conducted by Dr. Sujoy Chatterjee and Prof. Sunghoon Lim)

Judgement analysis is in a general way of learning about human decision from multiple opinions.

Showing my son the Disney 'Aladdin' won't make him want to join ISIS, will it?

5:40pm - 5 Dec 14





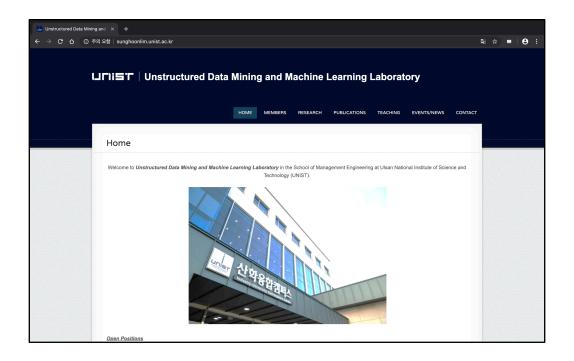


Skip Yes

No



Thank You



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