

Live Session : AI in AEC Papers Review

Agenda

- ML Basics
- AI in AEC Overview
- Paper Discussion
- General Discussion

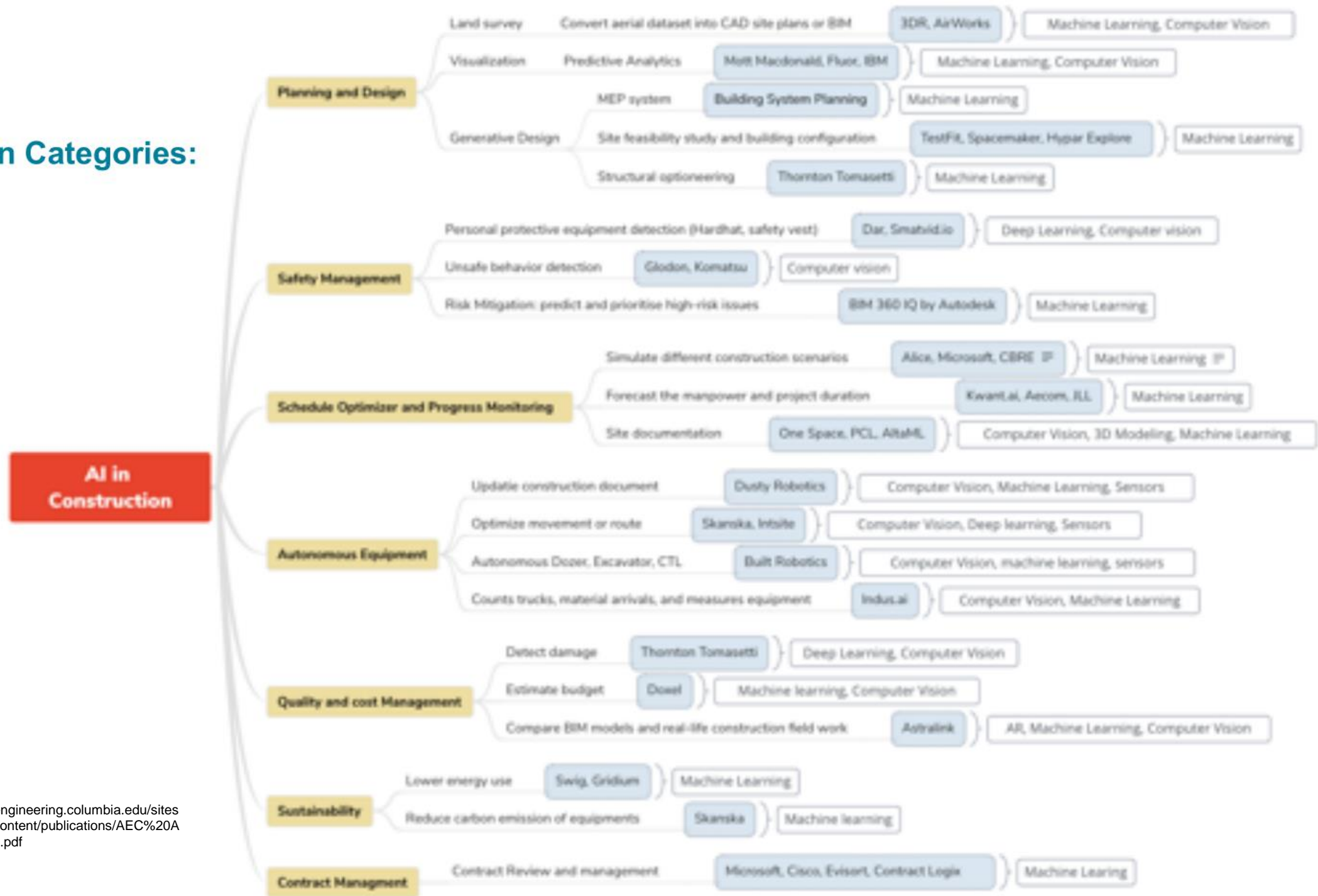
ML Basics

- Neural Network
- CNN
- RNN
- VAE
- GAN

AEC AI APPLICATION

- Events
 - Stanford : AI4AEC
 - DC I/O
 - ETH Zurich
 - Acadia

Seven Categories:



Source :

<https://cbips.engineering.columbia.edu/sites/default/files/content/publications/AEC%20AI%20research.pdf>

Papers Review

- Paper 1:
 - GAN
 - CGAN

AI Applications

- NVIDIA GauGAN (Sketch to Realistic images)
 - <http://nvidia-research-mingyuliu.com/gaugan>
- Draw together with Neural Network
 - https://magenta.tensorflow.org/assets/sketch_rnn_demo/index.html

General Discussion

- Paper Q n A
- What are some areas of improvement in AEC?
- According to you, what are
- Is there any particular topic you want to know more about in future sessions
- **Feedback** : Tips on improving the structure / content of live sessions to be more effective
- Other questions

Learning Resources

- <https://github.com/Mistrymm7/AlforArchitects>