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"Geospatial Information for a Smarter Life and Environmental Resilience"
Modern Methods of Processing and Extracting Data From Point Cloud

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Data processing

- Different approaches
- Commercial softwares
- Standard procedures
- Automatic procedures
- Procedures based on AI (artificial intelligence)
FIG WORKING WEEK 2019
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“Geospatial Information for a Smarter Life and Environmental Resilience”
AUTOMATIC DETECTION OF LINE STRUCTURES
- Convolutional Neural Networks (CNNs / ConvNets)

- STREET MARKINGS
- CURBS
- EDGE OF ROAD
AUTOMATIC DETECTION OF VERTICAL STRUCTURES
- Convolutional Neural Networks (CNNs / ConvNets)

- ELECTRIC PILLARS
- STREET LIGHTINGS
- TREES
AUTOMATIC DETECTION OF VERTICAL STRUCTURES
- Convolutional Neural Networks (CNNs / ConvNets)

• TRAFFIC SIGNS
• TRAFFIC LIGHTS
"Geospatial Information for a Smarter Life and Environmental Resilience"
Conclusion and Future steps

- Point Cloud matching procedures
- Feature extraction procedures
- Automatic feature extraction
- Reliability
Thank you for your attention!

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