

FIG WORKING WEEK 2019

22-26 April, Hanoi, Vietnam

Presented by the FIG Working Week 2019,
April 22-26, 2019 in Hanoi, Vietnam

"Geospatial Information for a Smarter Life
and Environmental Resilience"



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Modern Methods of Processing and Extracting Data From Point Cloud

Dr Dejan Vasic
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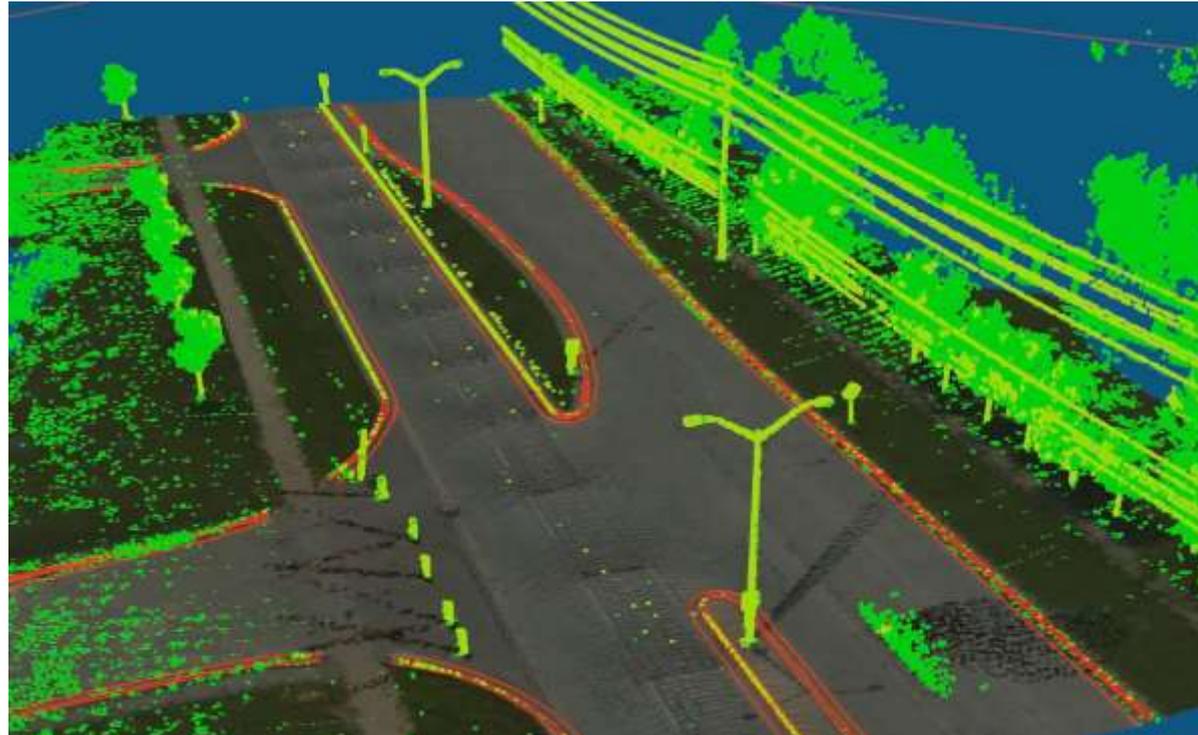
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Data processing

- Different approaches
- Commercial softwares
- Standard procedures
- Automatic procedures
- Procedures based on AI
(artificial intelligence)



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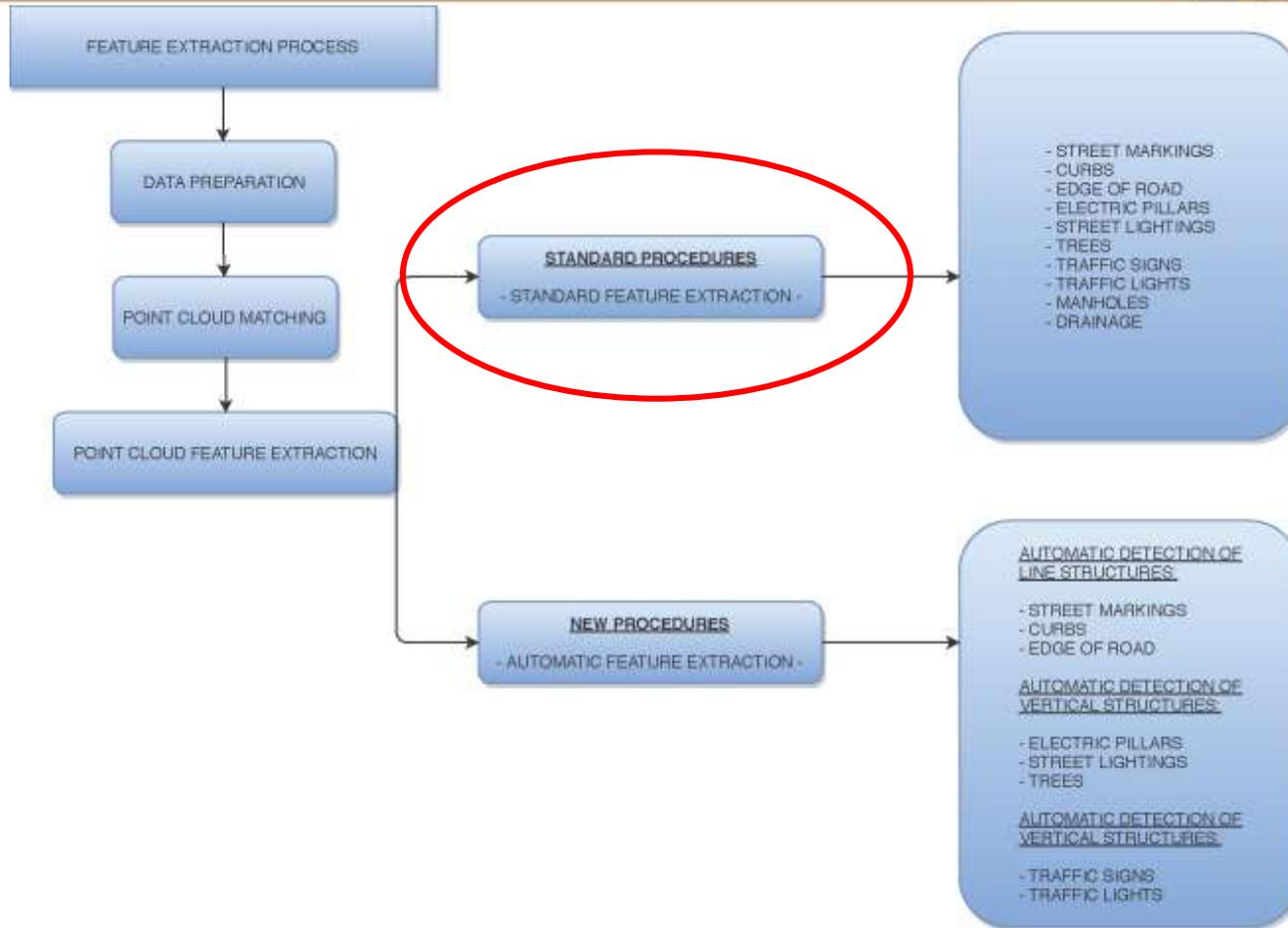


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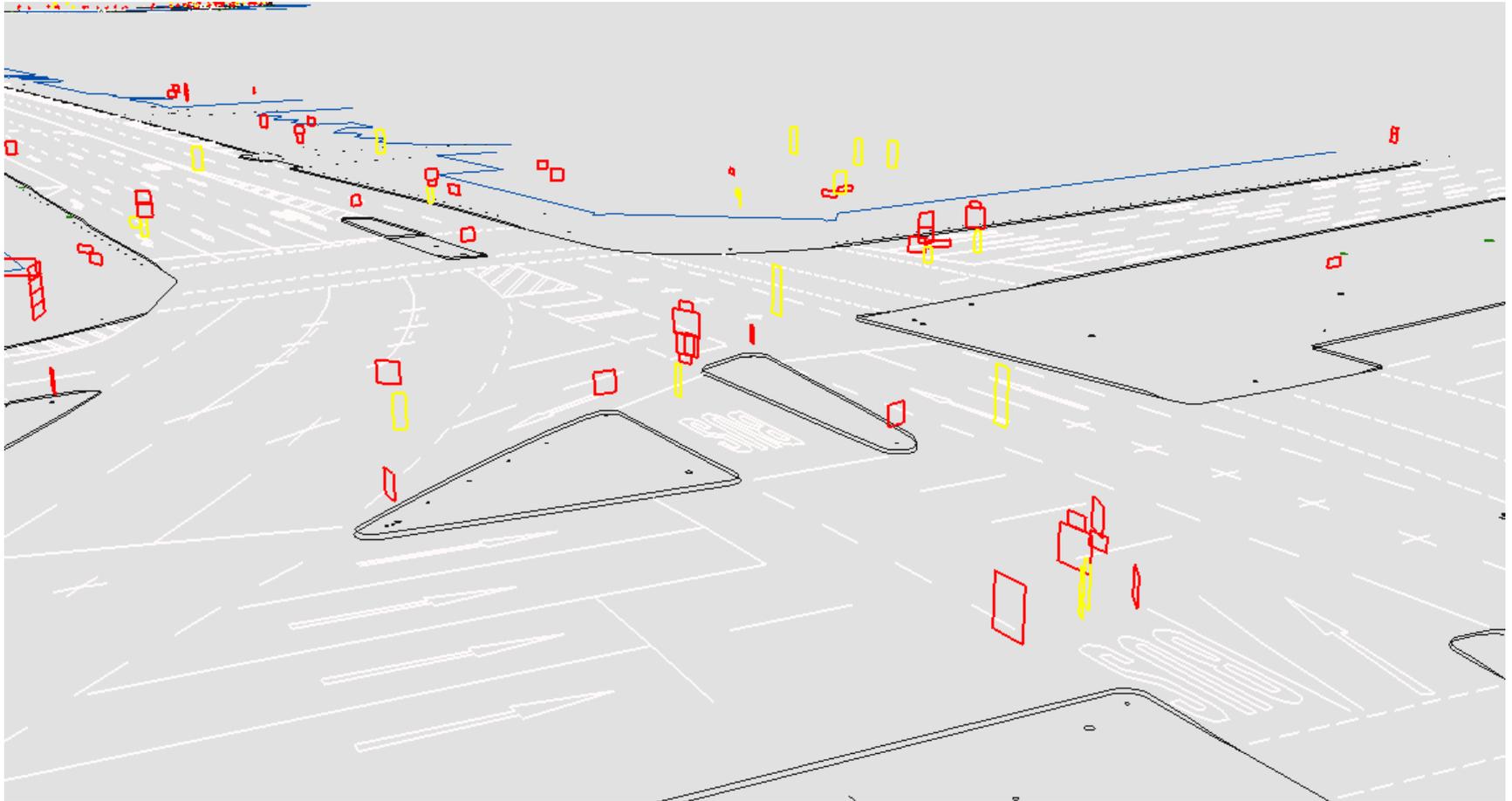


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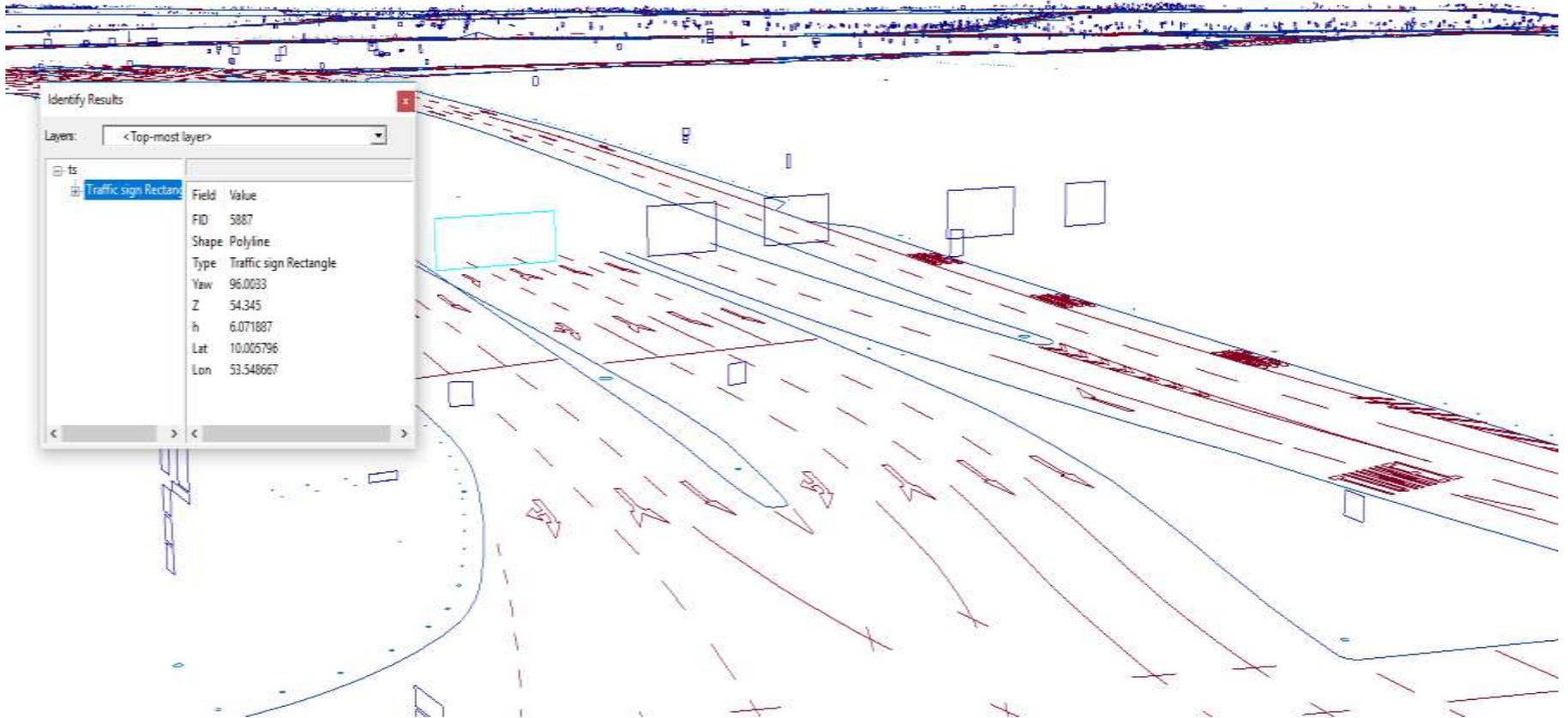


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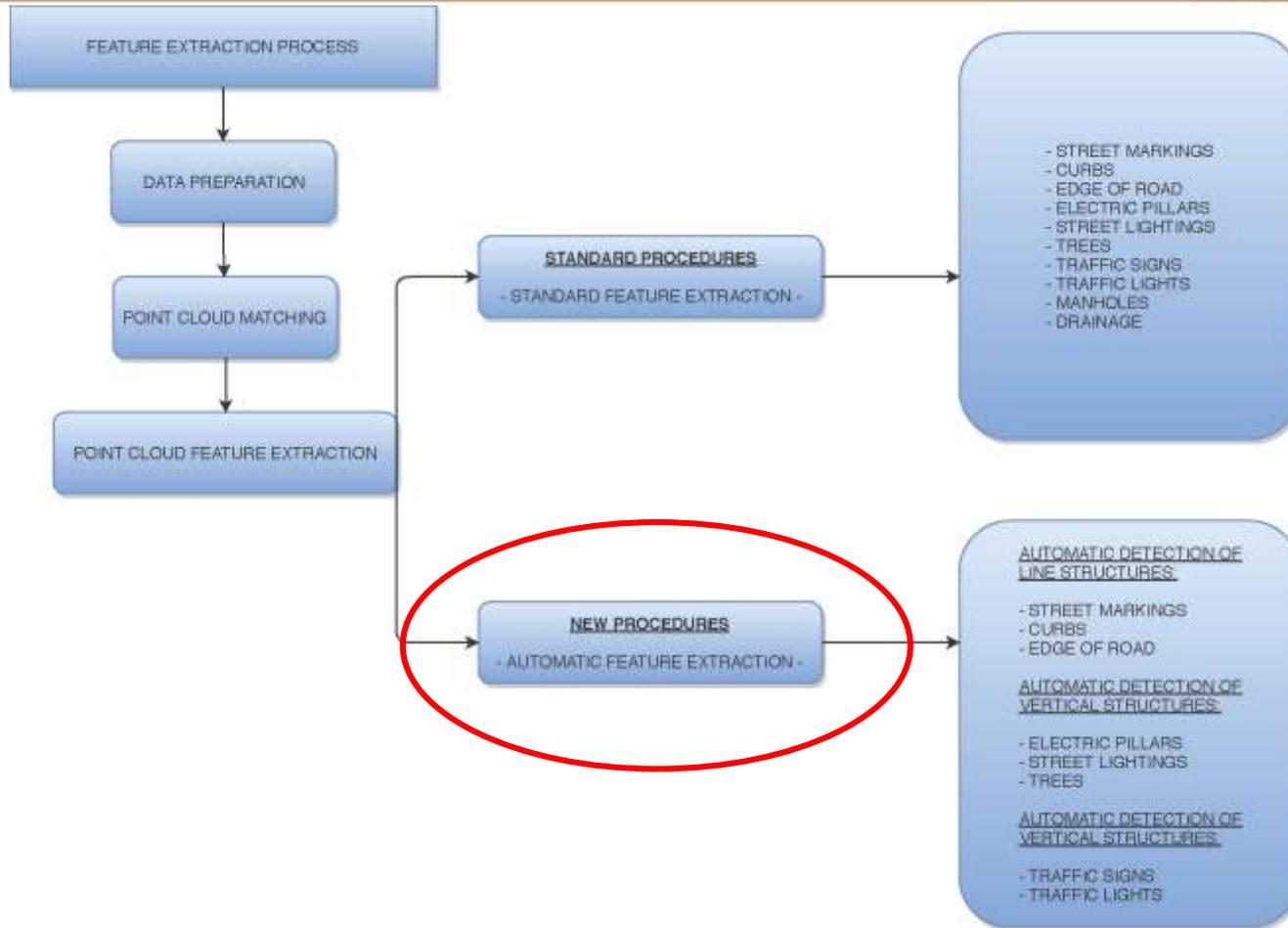


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AUTOMATIC DETECTION OF LINE STRUCTURES - Convolutional Neural Networks (CNNs / ConvNets)

- STREET MARKINGS
- CURBS
- EDGE OF ROAD

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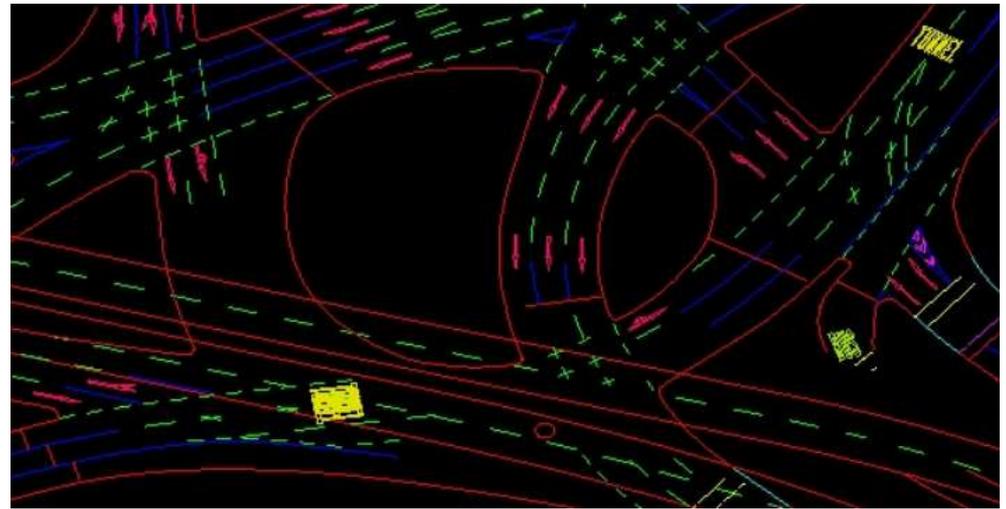
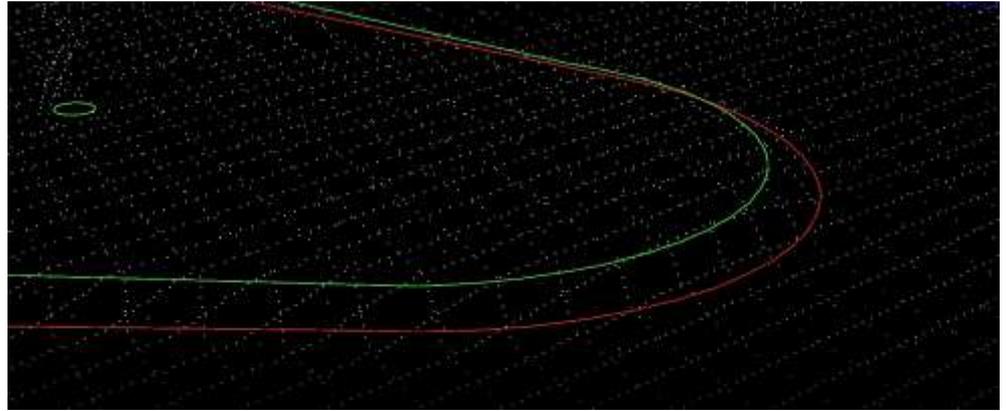
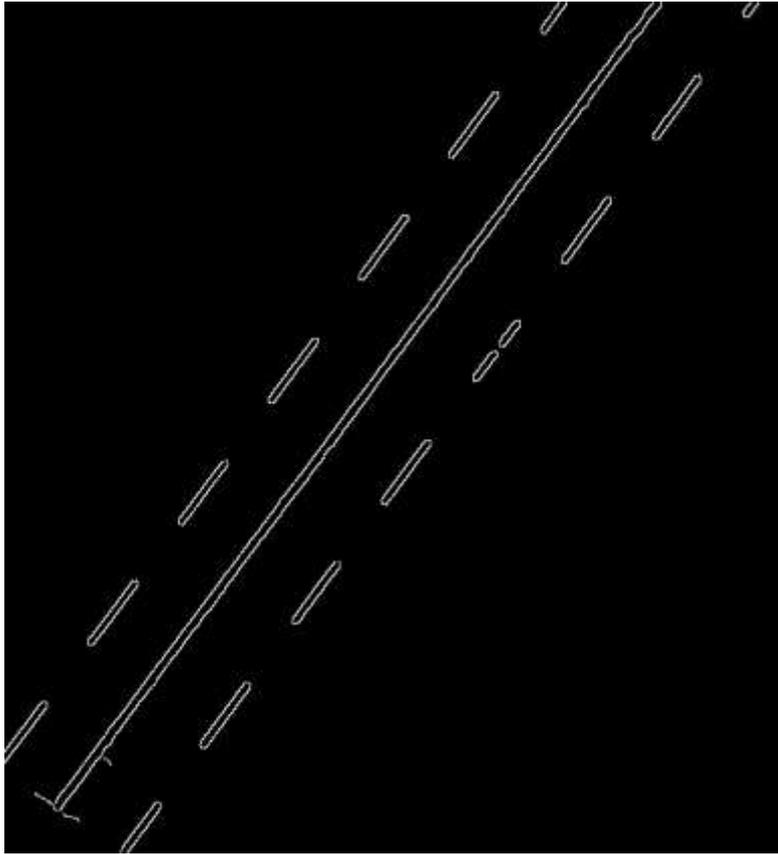




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AUTOMATIC DETECTION OF VERTICAL STRUCTURES - Convolutional Neural Networks (CNNs / ConvNets)

- ELECTRIC PILLARS
- STREET LIGHTINGS
- TREES

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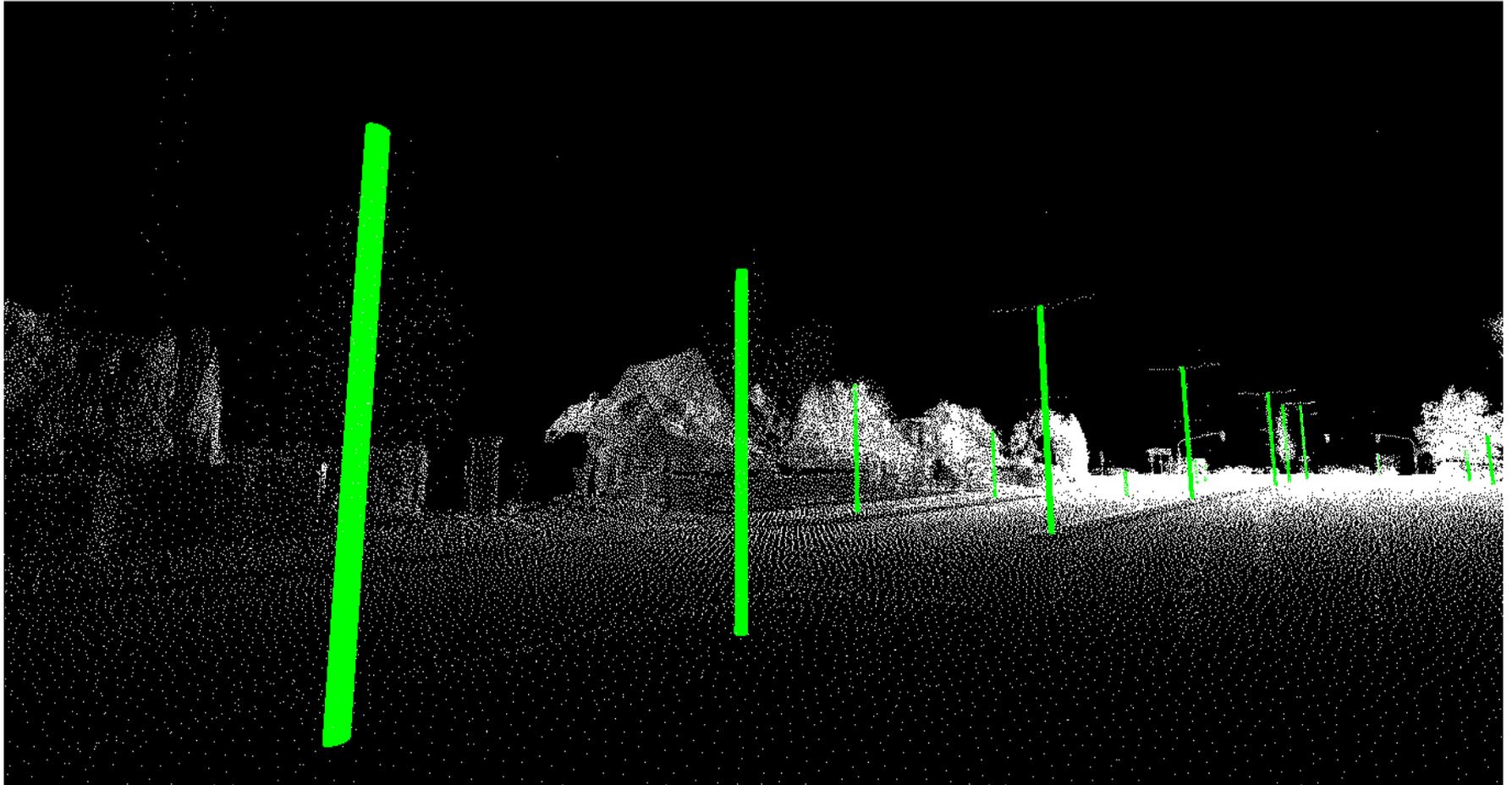


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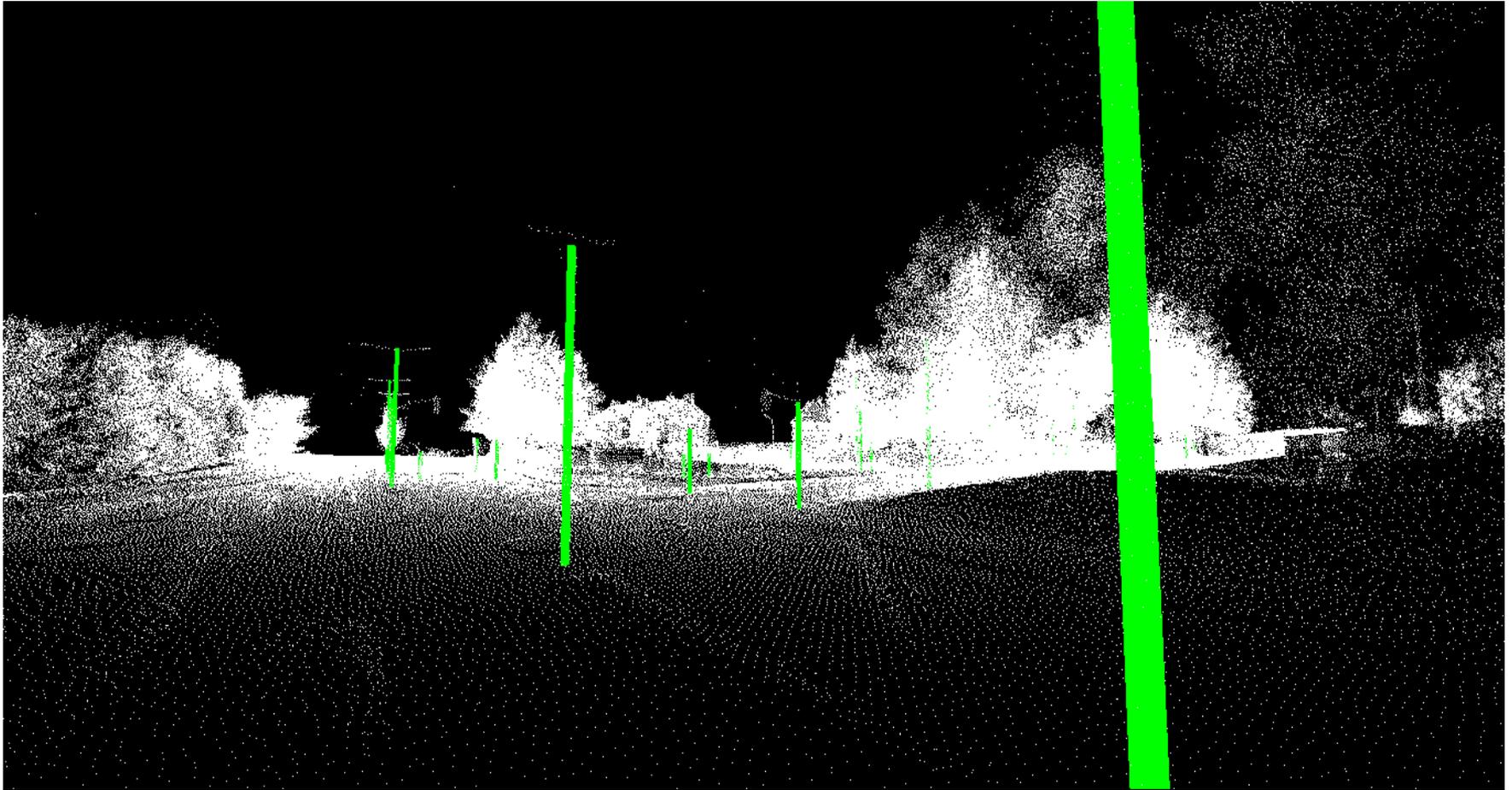


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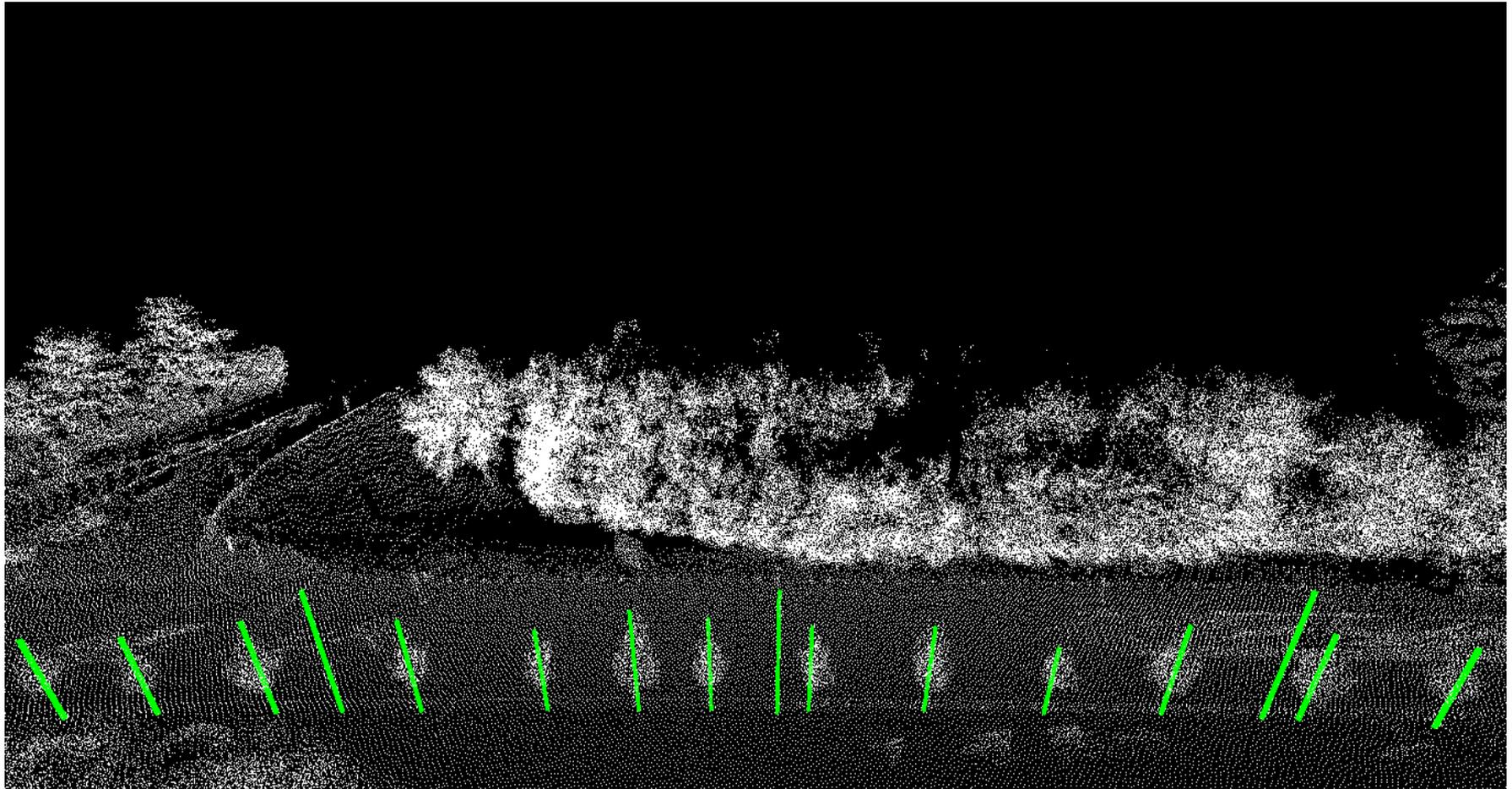


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AUTOMATIC DETECTION OF VERTICAL STRUCTURES - Convolutional Neural Networks (CNNs / ConvNets)

- TRAFFIC SIGNS
- TRAFFIC LIGHTS

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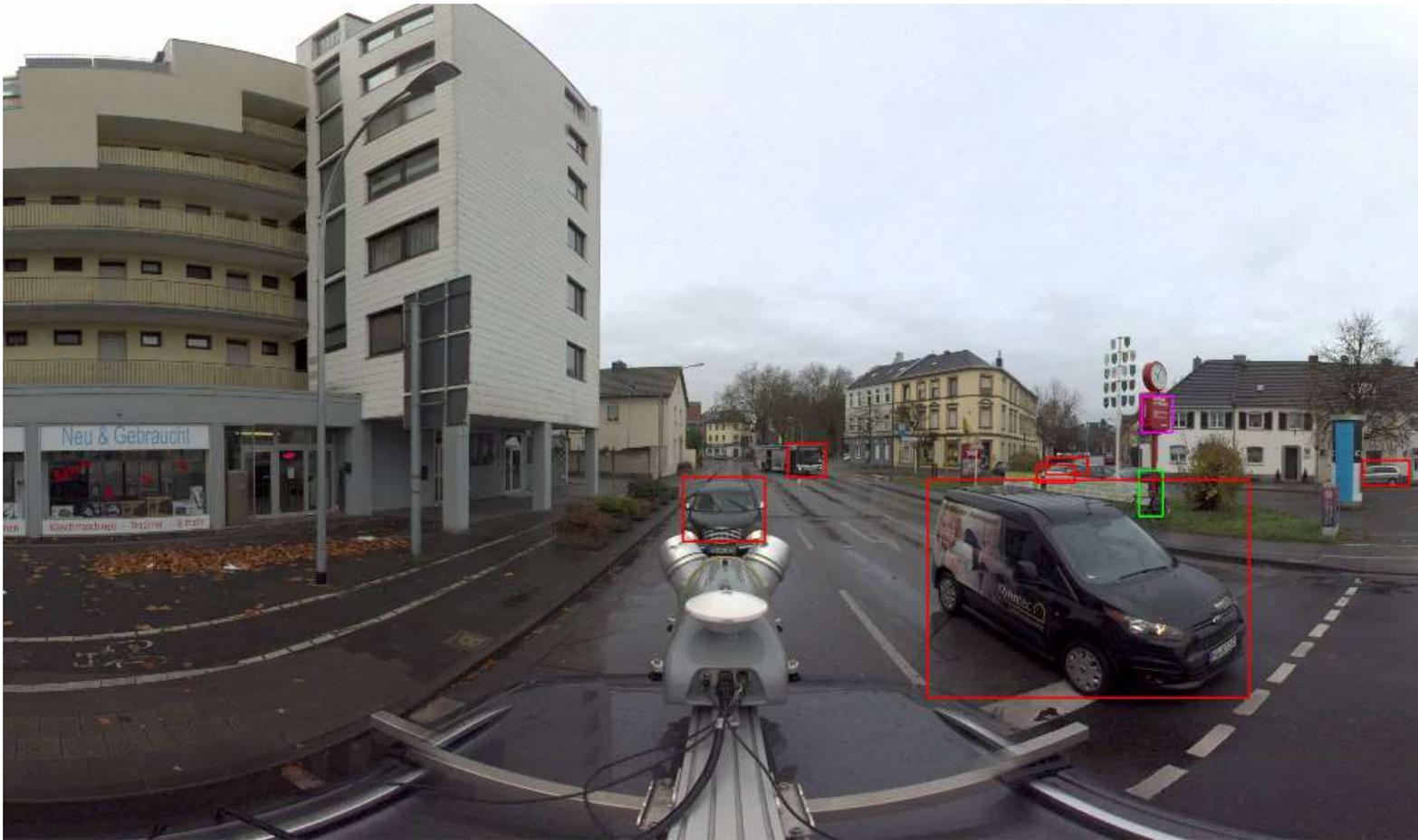


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Conclusion and Future steps

- Point Cloud matching procedures
- Feature extraction procedures
- Automatic feature extraction
- Reliability

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Thank you for your attention!

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