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Enabling Ultra-low Power Machine Learning at the Edge

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SSS3D: Fast Neural Architecture Search For Efficient Three-Dimensional Semantic Segmentation

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March 27, 2023
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Two-Stage Search

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Subnetworks Produced

- Reduces search time by 99.67% for single-stage search
- Two-stage search is 46% faster than single-stage search
- RandLA-Net has 5M parameters, 17G FLOPs and 62.78% mIoU

<table>
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<th>Filter Ratio</th>
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- mIoU increased by 0.27%
- Lowest parameters with 52% less than RLA for 61.51% mIoU
- Discovered in 1.04 GPU days. Lowest FLOPs with 62% less than RLA for 59.28% mIoU
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Thank you!
Any questions?

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