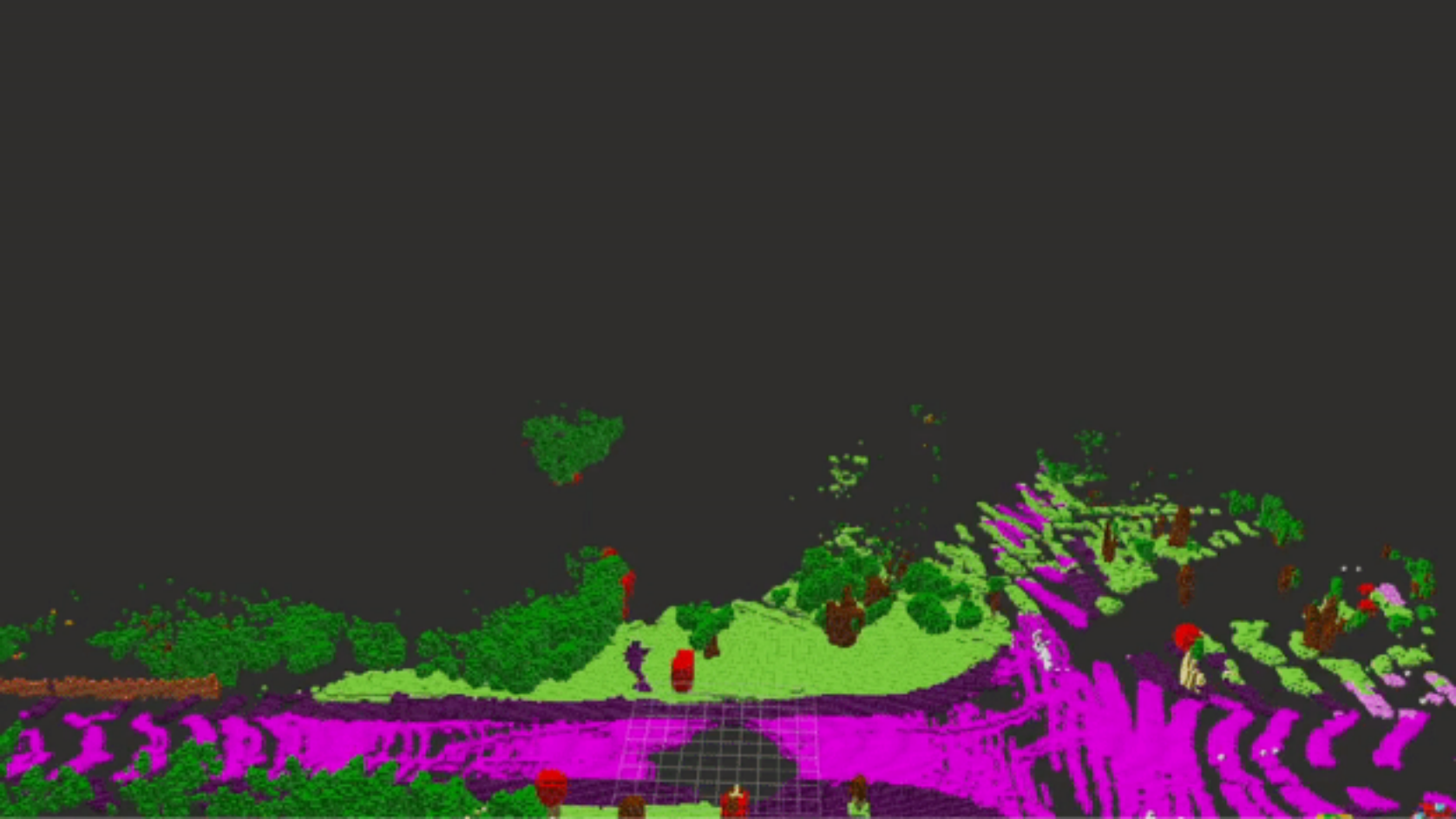






**GonvBKI**



*Semantic prediction*

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  - Object-based
  - Material-based
  - Spatial-based

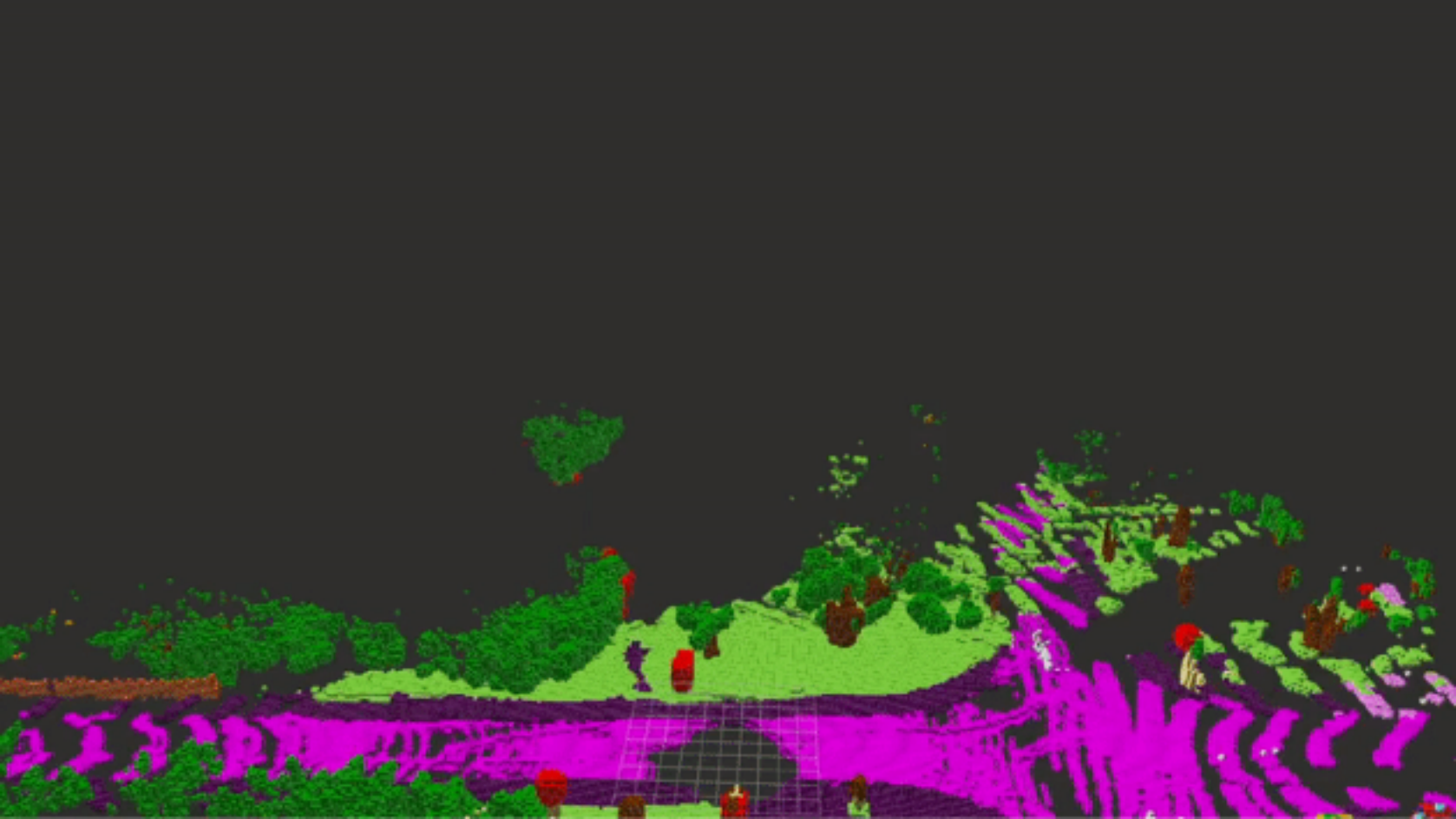
- **Real-time semantic mapping**
  - Occupancy grids (e.g. OctoMap)  
[Hornung, A., et al. (2013)]
  - ConvBKI: Segmentation with quantifiable uncertainty [Wilson, J., et al. (2023)]

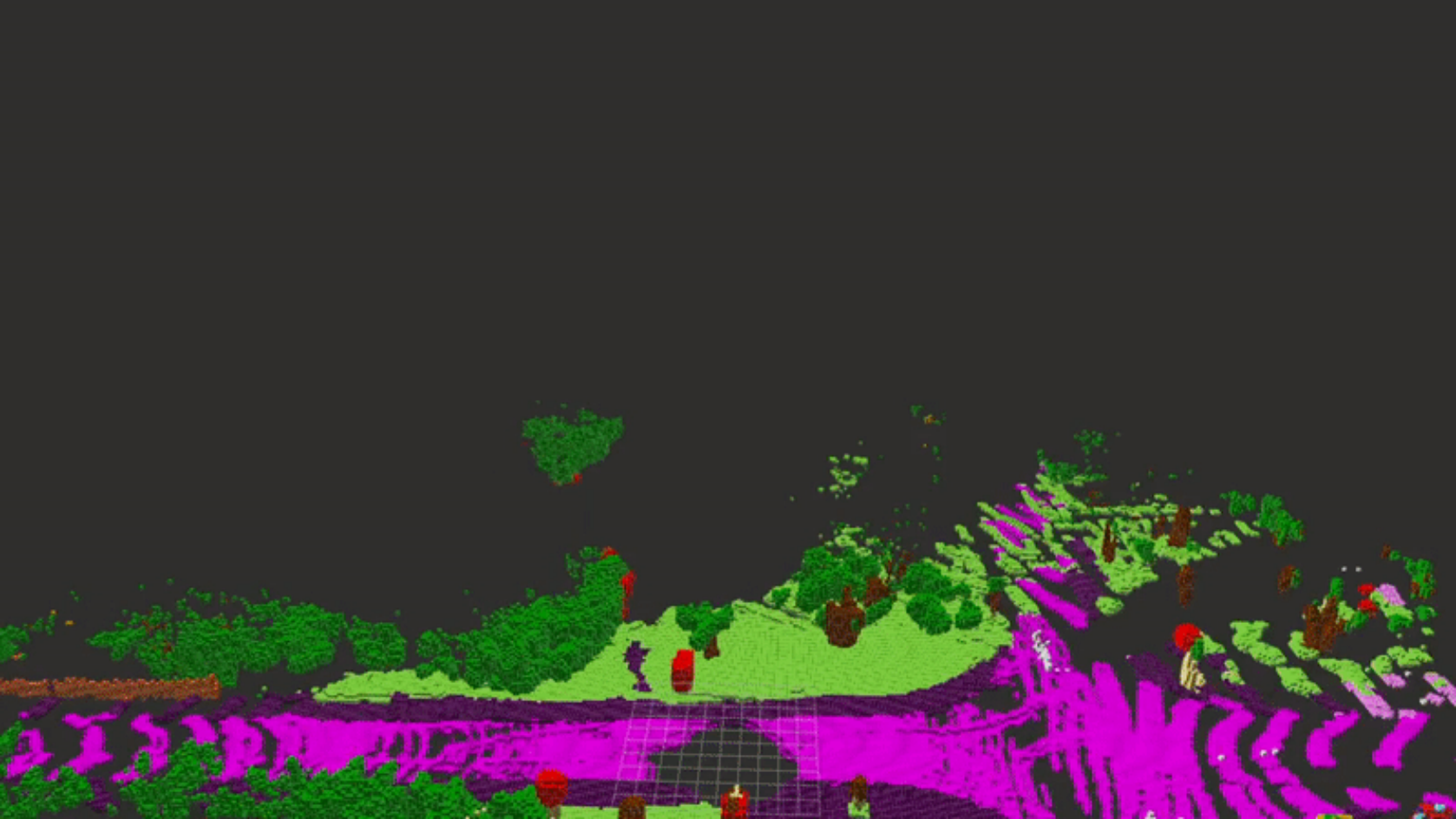
- **Multimodal segmentation**
  - Segmentation with depth  
[Wang, P., et al. (2015)]
  - Segmentation with thermal data  
[Sun, Y., et al. (2021)]



**no temporal consistency**

**immutable during  
operation**

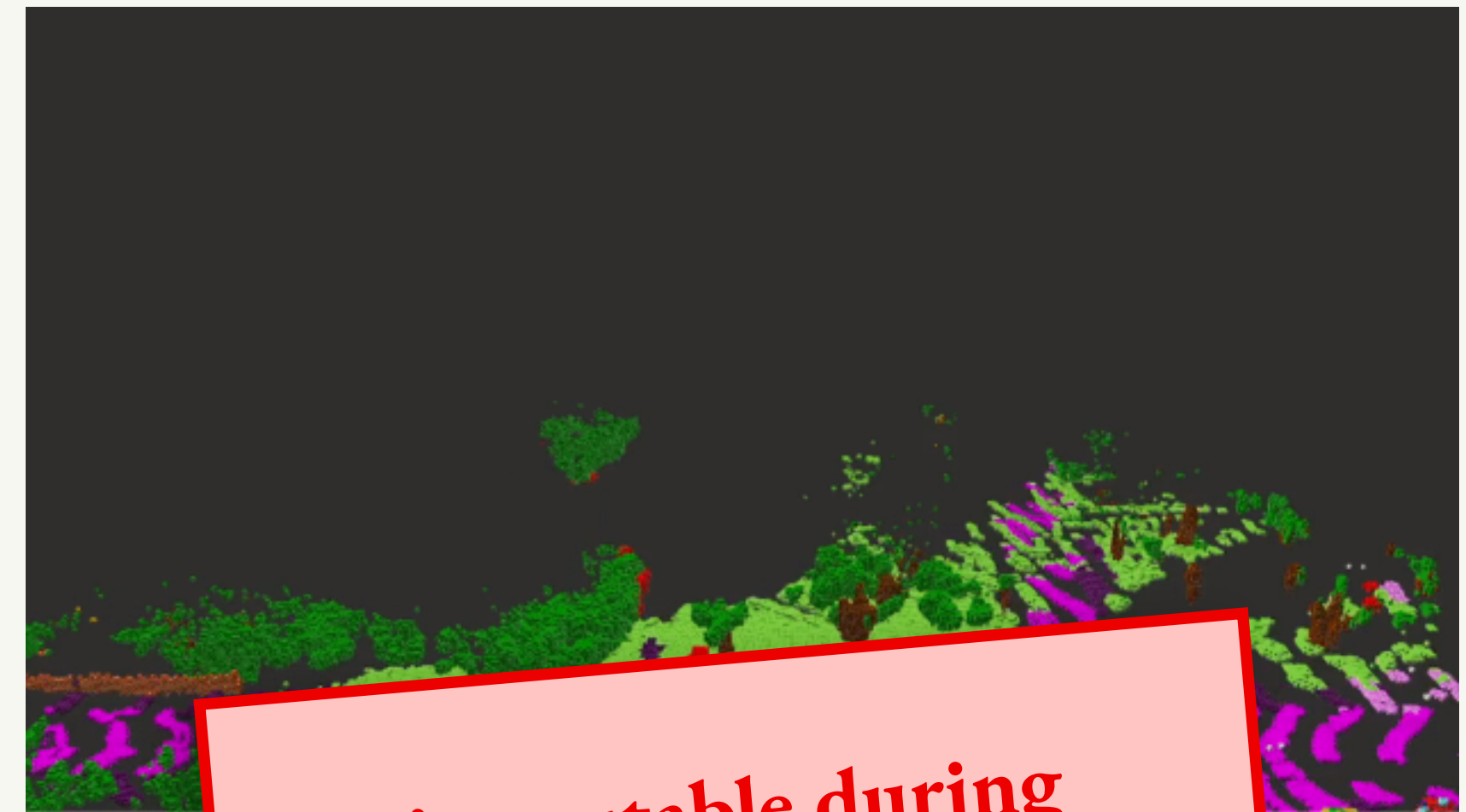




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# *Property estimation*