Title: System and Method for Environment Perception Based on Radar

In this patent, we design a compact environment perception system based on efficient panoptic segmentation that is end-to-end differentiable so that the model training can be carried out end-to-end to ensure optimal model learning without human intervention. Meanwhile, we incorporate multipath detection into the segmentation framework so that both functions can be conducted simultaneously and without additional processing steps. In addition, thanks to the efficient system structure, the computation load is light, and thus high frame rate update is achievable for real-time implementation.

No suitable figure