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18. abstract The project NAOMI4Radar developed and demonstrated neuromorphic algorithms for energy-efficient radar data processing in vehicles. Conventional AI-based radar perception methods are computationally demanding and difficult to deploy on embedded automotive hardware. By introducing neuromorphic approaches such as Sparse Coding and Resonate-and-Fire neurons, the project achieved temporally consistent, low-noise radar representations with significantly reduced energy consumption. The algorithms were successfully implemented on neuromorphic hardware and validated in a vehicle demonstrator. The results lay the foundation for future series integration and contribute to Germany's technological sovereignty in energy-efficient driver assistance systems.	
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