



Elektrotechnisches Kolloquium

der Bergischen Universität Wuppertal

Die Fakultät für Elektrotechnik, Informationstechnik und Medientechnik lädt zur Teilnahme an folgender Vortragsveranstaltung mit anschließender Diskussion ein:

Es spricht Herr Loveneet Saini, M.Sc.

Lehrstuhl für Technologies and Management of Digital Transformation

Prof. Dr.-Ing. Tobias Meisen

über das Thema: Query-Centric Radar Perception via Structured Axes of Reasoning

Inhalt:

In this presentation, novel Deep Learning architectures for perception in autonomous systems are introduced. The work focuses on processing automotive radar data, which poses unique challenges due to sparsity and signal ambiguities.

A query-centric approach is proposed that integrates sensor-specific inductive biases to enable structured reasoning across spatial, temporal, and graph-based dimensions. The design aims to enhance model robustness against signal artifacts and optimize perception performance within the resource constraints of embedded ADAS platforms. The presented methods have been validated on large-scale datasets, demonstrating significant improvements in object detection and scene understanding.

T e r m i n:

28.01.2026, 4:00 p.m.

O r t:

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