VERSATILE SENSOR PLATFORM FOR AUTONOMOUS SENSING IN AUTOMOTIVE APPLICATIONS

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Abstract- This paper presents the development of a versatile sensor platform used for autonomous data acquisition. The key advantages of the platform are its compact design, implemented onboard sensors, standard interfaces to connect application specific sensors and subsequently simple installation and low costs for the preparation of a measurement task. The paper provides details of the platform design and key characteristics. Practical exemplary applications in the field of automotive sensing, covering thermal management related and passenger comfort related measurement tasks, are presented.

Index terms*:* sensor platform, onboard sensing, autonomous sensing, automotive application.