

The Sensing and Navigation Technique in GNSS-denied environment

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Synopsis:

In the GNSS-denied environment, GNSS can not be used due to natural or human factors. With the increasing antagonism in the military field and the continuous application expansion of the unmanned systems in the civil field, higher and higher requirements are imposed on the GNSS-independent sensing and navigation technology. In the GNSS-denied environment, it is usually needed to design sensor fusion scheme based on the specific task. This topic aims to share new technologies and new achievements in the field of sensing and navigation technique in GNSS-denied environment. The topics may include (but not be limited to): LiDAR-based navigaiton systems, vision-based navigaiton systems, indoor navigation, multi-sensor integrated systems and sensor fusion technologies, plug-and-play fusion method.

卫星拒止环境下的感知与导航技术

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卫星拒止（GNSS Denied）环境，指的是由于自然或人为因素，卫星导航系统无法使用的环境。随着军用领域对抗性的不断加强，以及民用领域无人系统应用范围的不断拓展，对不依赖卫星的感知与导航技术提出了越来越高的要求。在卫星拒止环境下，往往需要结合具体任务背景对传感器方案、融合方法进行设计。本专题旨在共同展示和分享卫星拒止环境下的感知与导航新技术、新成果。本专题论文主题包含但不限于：激光雷达导航技术、视觉导航技术、室内导航技术、多传感器融合技术、即插即用融合方法。