



Modeling of Vehicle Mobility in Forests and Rugged Terrain

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Message from the Guest Editors

We seek research in the field of mobility connected to robotic systems moving independently in the forest (unmanned vehicles) and equipped with their own sensors (RGB, LIDAR, RADAR, etc.), including but not limited to:

- Modeling the possibilities of vehicle movement through forest units;
- Possibilities of using remote sensing data (RGB images, multispectral images, LIDAR, RADAR) for modeling the mobility of off-road vehicles in forest stands;
- Modeling of maneuvering vehicles around trees or overcoming trees by heavy vehicles;
- The influence of terrain microrelief objects (forest paths, erosional forms of watercourses, fallen tree trunks, boulders, etc.) on mobility;
- The effect of the movement of heavy off-road vehicles on root systems and damage to forest stands;
- Analysis of GNSS signal quality for off-road vehicle navigation in the forest;
- Use of autonomous systems, inertial systems, and others for navigation in the forest.





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