

SCIENCE CHINA Information Sciences
Call for Papers
Special Topic: Spatial Intelligence



Spatial Intelligence, as a core frontier of AI, aims to empower machines with the ability to perceive, understand, reason about, and interact with the 3D physical world. It serves as a critical foundation for fields such as autonomous systems, mixed reality, the metaverse, and geospatial science. This special issue aims to stimulate and publish cutting-edge, original research, comprehensive reviews, and insightful benchmark studies focusing on, but not limited to, the following areas:

(1) **Foundations & Models:** Representation learning for spatial information, pre-training and foundation models for spatial understanding, embodied AI with spatial reasoning, modeling of commonsense and physical laws in space, forecasting and understanding in spatio-temporal sequence;

(2) **Spatial Perception, Reconstruction & Mapping:** Multi-sensor fusion for SLAM, 3D reconstruction and semantic mapping, efficient modeling and rendering for large-scale scenes, environmental exploration;

(3) **Spatial Understanding, Reasoning & Generation:** 3D scene segmentation and object detection, reasoning about scene functionality/traversability/affordance, Vision-and-Language Navigation (VLN) and Action (VLA), 3D content generation/editing/synthesis, world model based simulation and prediction;

(4) **Datasets & Evaluation:** Large-scale spatial intelligence datasets and benchmarks, evaluation metrics and standardization for spatial intelligence systems, high-efficiency computing and lightweight deployment;

(5) **Applications & Systems:** Spatial intelligence for autonomous driving, robots, UAVs, AR/MR/XR, digital twins, smart cities, remote sensing and photogrammetry.

Submission

The papers should be prepared using the SCIS template, and should be submitted online through the manuscript submission system of the SCIENCE CHINA Information Sciences. The submission website is <https://mc03.manuscriptcentral.com/scis>. You should choose **Special Topic: Spatial Intelligence (2026)**. Information and guidelines on preparation of manuscripts are available on the journal website: <http://scis.scichina.com>.

Important Dates

Manuscript submission deadline: **March 31, 2026**

First Round of Reviews: May 31, 2026

Final Acceptance Notification: July 31, 2026

Publication: November 1, 2026

Guest Editors

Zhaoxiang Zhang, Institute of Automation, Chinese Academy of Sciences, China

Yulan Guo, Sun Yat-sen University, China

Jiaqi Yang, Northwestern Polytechnical University, China

Kun Zhou, Zhejiang University, China

Contact

Kai JIANG, Scientific Editor

jiangkai@scichina.com, 010-64015683

SCIENCE CHINA Information Sciences Editorial Office