📢 Call For Papers: GAIA SYMPOSIUM

GAIA: Geospatial AI and Applications with Foundation Models

Symposium Date: **24-26 Sept. 2025** | Location: **Sofia, Bulgaria**

🔍 Overview:

Recent advances in foundation models—including large language models (LLMs), vision-language models (VLMs), and multimodal transformers—have revolutionized how we process and understand visual, linguistic, and scientific data. At the same time, the increasing availability of geospatial data from satellites, drones, ground sensors, and planetary missions calls for scalable, adaptive, and generalizable models.

The GAIA 2025 explores the intersection of Geospatial AI and foundation/multimodal models, with the goal of advancing Earth and planetary understanding. We invite research contributions that investigate how foundation models can be developed, adapted, or applied in spatial and multimodal settings across a range of scientific and societal applications.

🌐 Topics of Interest:

We invite submissions presenting new and original research on topics at the intersection of geospatial data and foundation or multimodal models, including but not limited to the following:

- Foundation models for geospatial and planetary data
- Vision-language models for remote sensing and geospatial grounding
- LLMs for spatial reasoning, natural language querying, and report generation
- Multimodal fusion: satellite imagery, text, time-series, and metadata
- Cross-resolution, cross-domain, and cross-sensor generalization
- Diffusion models and generative methods for Earth/space science
- Large-scale geospatial datasets and benchmarking
- Climate, environment, and sustainability applications
- Foundation models for extraterrestrial data (e.g., Mars, Moon)
- 3D GIS, Urban Modeling, and Procedural Generation

📄 **Submission Guidelines:**
- Submissions must be in PDF format, either of the following two types:
  - Extended abstract (2-4 pages of around 400 words each)
  - Regular paper (6-11 pages of around 400 words each)
- The regular papers will be published at the GAIA 2025, Lecture Notes in Computer Science (LNCS), Springer, proceedings.
- Papers must be anonymous and adhere to the template in the link.
- The review will be double-blind and managed via CMT.
- Accepted papers will be presented as oral talks or spotlights with posters.
- Non-archival submissions that are under review or have been recently accepted to other venues, clearly marked as such, are also invited for extended abstracts.

📅 **Important Dates:**
- Paper Submission Deadline: June 15, 2025 (AoE)
- Author Notification: July 15, 2025 (AoE)
- Camera-Ready Submission: July 30, 2025 (AoE)
- Symposium Date: **24-26 Sept. 2025**

🧑‍💼 **Organizers:**
- Luc Van Gool (INSAIT)
- Danda Paudel (INSAIT)
- Bin Ren (INSAIT)
- Jeroen Audenaert (MIT)
- Ronny Hänsch (DLR)
- Salman Khan (MBZUAI)
- Xian Sun (Aerospace Information Research Institute)
- Yuliya Tarabalka (Space42)
- Iain Keaney (Ubotica Technologies)
- Begüm Demir (BIFOLD and Technische Universität Berlin)

🔗 **Official Website**: www.gaiasymposium.ai
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