

GISTAM 2021

SCOPE

The International Conference on Geographical Information Systems Theory, Applications and Management aims at creating a meeting point of researchers and practitioners that address new challenges in geo-spatial data sensing, observation, representation, processing, visualization, sharing and managing, in all aspects concerning both information communication and technologies (ICT) as well as management information systems and knowledge-based systems. The conference welcomes original papers of either practical or theoretical nature, presenting research or applications, of specialized or interdisciplinary nature, addressing any aspect of geographic information systems and technologies.

CONFERENCE AREAS

Each of these topic areas is expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

1. DATA ACQUISITION AND PROCESSING
2. REMOTE SENSING
3. MODELING, REPRESENTATION AND VISUALIZATION
4. KNOWLEDGE EXTRACTION AND MANAGEMENT
5. DOMAIN APPLICATIONS

AREA 1: DATA ACQUISITION AND PROCESSING

Photogrammetry
Natural Phenomena Data Acquisition
Spatio-Temporal Data Acquisition
Geospatial Information and Technologies
Seismic Data Processing
Geodesy
Image Processing and Pattern Recognition
Geocomputation
Geospatial Architectures and Middleware
Performance Evaluation
Parallel and Distributed Computation
Real-Time Sensors

AREA 2: REMOTE SENSING

Spectroscopy and Spectroradiometry

Hyperspectral Imaging
Earth Observation and Satellite Data
RADAR and LiDAR
Infrared Remote Sensing
Sensor Networks
Urban Remote Sensing
Remote Sensing of Agriculture
Hydrological Remote Sensing
Ocean Topography
Remote Sensing in Climate Change Studies

AREA 3: MODELING, REPRESENTATION AND VISUALIZATION

Computational Geometry
Query Processing and Optimization
Cartography and Geodesy
3D Modeling and Simulation
Computer Graphics Applications
Computer Vision Applications
Human Computer Interaction and Visualization
Spatial Information and Society
Data Sharing, Privacy and Security
Topological Modeling and Analysis
Underground Geo-Reserves Modeling
Spatial Modeling and Reasoning
Standardization and Interoperability
Storage, Indexing and Searching

AREA 4: KNOWLEDGE EXTRACTION AND MANAGEMENT

Decision Support Systems
Web Applications
Geographic Information Retrieval
Intelligent Data Fusion
Data Mining and OLAP
GPS and Location Detection
Location-Based and Mobile Services
Spatio-Temporal Database Management
Spatial Data Quality and Uncertainty
Spatial Analysis and Integration
Image and Video Understanding
Big Data and GIS
Land Management
Spatial Information Management

Deep Learning for Urban and Environment Planning
Machine Learning for Spatial Data

AREA 5: DOMAIN APPLICATIONS

Ecological and Environmental Management
Urban and Regional Planning
Crops and Soils Research
Water Information Systems
Energy Information Systems
Coastal Management
Natural Resource Management
Industrial Applications
Disaster Management
Climate Change
Transportation Engineering
Ocean Engineering
Oil Exploration
3D/4D Cadaster

KEYNOTE SPEAKERS

Ioannis Manakos, Information Technologies Institute, Centre for Research and Technology Hellas, Greece

Toshihiro Osaragi, Tokyo Institute of Technology, Japan

Lena Halounova, Czech Technical University in Prague, Czech Republic

PAPER SUBMISSION

Authors can submit their work in the form of a complete paper or an abstract. Complete papers can be submitted as a Regular Paper, representing completed and validated research, or as a Position Paper, portraying a short report of work in progress or an arguable opinion about an issue discussing ideas, facts, situations, methods, procedures or results of scientific research focused on one of the conference topic areas.

Authors should submit a paper in English, carefully checked for correct grammar and spelling, addressing one or several of the conference areas or topics. Each paper should clearly indicate the nature of its technical/scientific contribution, and the problems, domains or environments to which it is applicable. To facilitate the double-blind paper evaluation method, authors are kindly requested to produce and provide the paper WITHOUT any reference to any of the authors, including the authors' personal details, the acknowledgments section of the paper and any other reference that may disclose the authors' identity.

When submitting a complete paper please note that only original papers should be submitted. Authors are advised to read INSTICC's ethical norms regarding plagiarism and self-plagiarism thoroughly

before submitting and must make sure that their submissions do not substantially overlap work which has been published elsewhere or simultaneously submitted to a journal or another conference with proceedings. Papers that contain any form of plagiarism will be rejected without reviews.

All papers must be submitted through the online submission platform PRIMORIS and should follow the instructions and templates that can be found under Guidelines and Templates. After the paper submission has been successfully completed, authors will receive an automatic confirmation e-mail.

PUBLICATIONS

All accepted complete papers will be published in the conference proceedings, under an ISBN reference, on paper and on digital support.

SCITEPRESS is a member of CrossRef (<http://www.crossref.org/>) and every paper on our digital library is given a DOI (Digital Object Identifier).

The proceedings will be submitted for indexation by SCOPUS, Google Scholar, The DBLP Computer Science Bibliography, Semantic Scholar, Engineering Index (EI) and Web of Science / Conference Proceedings Citation Index.

IMPORTANT DATES

Conference Date: **23 - 25 April, 2021**

Regular Papers

Paper Submission: **December 21, 2020 (extended)** (extended)

Authors Notification: **February 5, 2021**

Camera Ready and Registration: **February 22, 2021**

Position Papers

Paper Submission: **January 19, 2021**

Authors Notification: **February 24, 2021**

Camera Ready and Registration: **March 9, 2021**

Workshops

Workshop Proposal: **December 18, 2020**

Doctoral Consortium

Paper Submission: **March 2, 2021**

Authors Notification: **March 15, 2021**

Camera Ready and Registration: **March 23, 2021**

Special Sessions

Special Session Proposal: **December 18, 2020**
Paper Submission: **February 24, 2021**
Authors Notification: **March 10, 2021**
Camera Ready and Registration: **March 18, 2021**

Tutorials

Tutorial Proposal: **March 15, 2021**

Demos

Demo Proposal: **March 15, 2021**

Panels

Panel Proposal: **March 15, 2021**

Abstracts

Paper Submission: **March 2, 2021**
Authors Notification: **March 15, 2021**
Camera Ready and Registration: **March 23, 2021**

SECRETARIAT

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VENUE

Available soon.

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