



## Get prepared for your Presentation Submission

The following information will be required to complete the submission process:

### Presentation Title:

Use key words that describe the specific topic and content of the abstract. Catch phrases can be used but need to include a reference to the topic.

### Presentation Track:

#### **TRACK B - Book Track: Paper or Poster Presentation with Publication in Refereed Springer Book**

*Abstracts for the Book Track (B) are short because they are also included at the start of the full paper, which is submitted concurrently. The abstract format is a single paragraph limited to 250 words. Please be clear in the stating a goal of relevance to cartography and/or GIScience for the presentation. Outline the methods used or manner of investigation. Report the most salient results and conclusions or recommendations arising from the work. These points will be more fully explained in the submitted paper. Do not include references or figures in the short abstract.*

#### **TRACK P - Proceedings Track: Paper or Poster Presentation with Optional Paper in Online Proceedings**

*Abstracts for the Proceedings Track (P) are longer, filling approximately one letter-size page single spaced text and limited to 600 words. Please be clear in introducing the presentation topic and demonstrating a clear goal of relevance to cartography and/or GIScience for the presentation. Briefly explain the systematic character of your investigation or methods. Report on the results and conclusions of the work, or recommendations arising from it, by including concrete information--not a vague overview of proposed contributions. Use of paragraphing within this page of abstract text is encouraged and section headings are helpful to reviewers. Full references are not expected, though you may choose to cite others' works with author and date information.*

### What type of presentation is this?

- Oral Abstract (paper)
- Poster Presentation

### Themes for Submission:

You will be asked to choose one, two, or three themes from the list below to assist in reviewer selection and grouping of presentations.

- T01 Visual analytics, geovisualization, and dynamic cartography.
- T02 Spatial analysis, geocomputation, modeling, and data mining.
- T03 Virtual reality, augmented reality, 3D mapping, and Geodesign.
- T04 Generalization, multi-resolution data, and multi-scale representation.
- T05 Thematic cartography and multivariate data mapping; semiology
- T07 User studies; user experience and usability; user interface design.
- T08 Cognitive issues in map use and design.
- T09 Children and cartography.
- T10 Accessible cartography for people with disabilities.
- T11 Education and training in cartography and geospatial technologies.
- T12 Outreach, geospatial MOOCs, and sharing mapping methods beyond cartography.
- T13 Design of maps.
- T14 Arts and culture; spatial digital humanities.
- T15 History of cartography and historical cartography.
- T16 Digital issues in cartographic heritage; map and geoinformation curatorship.
- T17 Ubiquitous cartography and theoretical cartography.
- T18 Critical cartography; GIS and society.

T19	Web cartography; map services and apps; GIS cloud computing.
T20	Collaborative mapping, volunteered geographic information, and crowdsourcing.
T21	Open source mapping and open geospatial data.
T22	Location based services, geospatial prospecting, and privacy issues.
T23	Intellectual property rights in mapping and geospatial data.
T24	Management, workflows, and supply chains for map publishing and geospatial products.
T25	Atlas cartography: advances in structure, design, and technology use.
T26	Spatial semantics and ontologies; spatial data infrastructures; interoperability.
T27	Quality of geospatial data, maps/charts; data integration, metadata, and standards.
T28	Big data; sensor networks and remotely-sensed data for mapping; feature extraction from lidar.
T29	Projections, coordinate systems, transformations, and conversions.
T30	Topographic mapping; design and update of national mapping series.
T31	Toponyms: place names as cultural heritage, place-name conflicts, toponymic field work and documentation.
T32	Mountain cartography and terrain representations; recreation and orienteering maps.
T33	Cadastral mapping; mapping for city management.
T34	Digital Transportation Infrastructure: highly precise and continuously updated road models for autonomous vehicles.
T35	Marine and aeronautical cartography, navigation charts and data, baselines, and sovereign zones.
T36	Geospatial intelligence and military cartography.
T37	Early warning, risk reduction, and crisis management using maps and geospatial information systems.
T38	Sustainable development; adaptation and resiliency mapping.
T39	Planetary, extrasolar, and celestial cartography.
T40	Developments in intensively mapped domains: global change, soils, geology, agriculture, humanitarian programs, crime, facilities management, etc.

### **Presenter Information:**

This information will be requested of each individual submitting a presentation. As the primary presenter and submitter, you will also be required to submit information regarding co-authors and presenters.

Presenter contact information includes:

- First (Given) Name
- Last (Family) Name
- Company/Institution
- Mailing Address
- Phone
- Email
- Short Biography