

CALL FOR PAPERS

Computational Models of Place

Special Issue of Spatial Cognition and Computation: An Interdisciplinary Journal

Aims

Place is a central concept in human spatial cognition and communication, closely related to experience (Tuan 1977). It also serves as the prototypical spatial reference in human, economic and cultural geography (Cresswell 2004). In spite of its prominence in everyday tasks and communication, place is hardly mentioned in Geographic Information Science mainly because of a lack of definition that would allow a formal approach to capture and model places in spatial databases.

More recent research concerns the modeling of spatial semantics, location modeling, and formal models of cognitive salience. This special issue aims to survey concurrent work discovering the topic of place in these more formal and computational directions of research, among them location-based services, gaming, human computer interface design, ontology, robotics and localization, social networks, gazetteers and georeferencing, vernacular geography, tagging and text mining, geographic information retrieval, qualitative modeling of environments, modeling affordance, and modeling uncertainty.

Searching for computational models of place brings together researchers working on the topic of place from different disciplines and viewpoints. Disciplines involved include geography, computer science, artificial intelligence, philosophy, psychology and linguistics, and an appropriate platform for this interdisciplinary exchange is the journal on Spatial Cognition and Computation. Authors from all disciplines are encouraged to submit a paper.

Papers

Submissions of full research or review papers of 3000-5000 words will be thoroughly reviewed by international journal standards. Manuscripts must describe original work that has not been published before nor is currently under review somewhere else. Presenters of the Workshop on Computational Models of Place can submit a revised version of their papers. Papers must be written in English and comply with the formatting guidelines of the journal.

Submissions should be made in the online submission system of the journal. When authors enter their papers, they will get to a screen where they can say if the paper is a candidate for the special issue. They should enter "Computational Models of Place".

Dates

Paper submission: 31 December 2008

Paper notification: 28 February 2009

Guest Editors

Stephan Winter, Geomatics, The University of Melbourne, Australia
Werner Kuhn, Geoinformatics, University of Münster, Germany
Antonio Krüger, Geoinformatics, University of Münster, Germany

Contact / Links

Journal webpage, submission instructions: <http://www.sis.pitt.edu/~scc/index.html>
Any other correspondence: winter@unimelb.edu.au

References

Cresswell, T., 2004: Place: A Short Introduction. Blackwell Publishing Ltd., Oxford, UK.
Tuan, Y.-F., 1977: Space and Place: The Perspective of Experience. University of Minnesota Press, Minneapolis, MN, 235 pp.