

In Cooperation with



SIGMETRICS

15th ACM International Symposium on Advances in Geographic Information Systems (ACM GIS 2007)

Poster Papers: Program Schedule

Fast Forward Poster Preview Session: 14:50-15:50, Wednesday, November 7, 2007

Poster Reception: 19:00-21:30, Wednesday, November 7, 2007

1. **Pipelined Spatial Join Processing for Quadtree-based Indexes**
Walid G. Aref, Purdue University
2. **Scale; Population; and Spatial Analysis: A Methodological Investigation**
Darren Ruddell, Arizona State University; Elizabeth Wentz, Arizona State University
3. **Spatial and Temporal Analysis of Pedestrian Egress Behavior and Efficiency**
Atsushi Nara, Arizona State University; Paul Torrens, Arizona State University
4. **Constraints-preserving GML Storage in Object-Relational Databases**
Fubao Zhu, Wuhan University; Jihong Guan, Tongji University; Shuigeng Zhou, Fudan University
5. **Linear Feature Extraction Using Perceptual Grouping and Graph-Cuts**
Charalambos Poullis, University of Southern California; Suyu You, University of Southern California; Ulrich Neumann, University of Southern California
6. **The Definition and Computation of Trajectory and Subtrajectory Similarity**
Marc van Kreveld, Utrecht University; Jun Luo, Utrecht University
7. **A New Simplification Method for Terrain Model using Discrete Particle Swarm Optimization**
Huijie Zhang, Jilin University; Jigui Sun, Jilin University; Jin Liu, Jilin University; Nan Lv, Jilin University
8. **Topological Maps from Place Trails**
Yuri Dabaghian, University of California at San Francisco; Anthony Cohn, University of Leeds; Loren Frank, University of California at San Francisco
9. **An Efficient Framework for Similarity Query Optimization**
Monica R. P. Ferreira, ICMC-University of Sao Paulo; Caetano Traina Jr., ICMC-University of Sao Paulo; Agma J. M. Traina, ICMC-University of Sao Paulo
10. **Efficient AKNN Spatial Network Queries Using the M-Tree**
Elias Ioup, Naval Research Laboratory; Kevin Shaw, Naval Research Laboratory; John Sample, Naval Research Laboratory; Mahdi Abdelguerfi, University of New Orleans
11. **Development of Web-based Decision Support System for Field-Based Crop Management**
Zongyao Sha, Wuhan University; Minghua Zhang, University of California at Davis
12. **Defining Edges on a Round Earth**
Michael Kallay, Microsoft Corporation
13. **Optimal Route Selection with Route Planners: Results of a Desktop Usability Study**
Hartwig Hochmair, University of Florida
14. **Visual Analytic Services for Geomarketing in Spatial Data Infrastructures**
Vera Hernández Ernst, Fraunhofer IAIS; Angi Voss, Fraunhofer IAIS; Felix Berghoff, Kurier-Verlag Lennestadt
15. **On Supervised Density Estimation Techniques and Their Application to Spatial Data Mining**
Dan Jiang, University of Houston; Christoph F. Eick, University of Houston; Chunsheng Chen, University of Houston



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16. **Geometric Algorithms for Clearance Based Optimal Path Computation**
Priyadarshi Bhattacharya, University of Calgary; Marina Gavrilova, University of Calgary
17. **Using Geoprocessing Specification as Semantic Metadata with GEOLEM**
Roland J. Viger, U.S. Geological Survey; Olaf David, U.S. Agricultural Research Service; Charles G. O'Hara, Mississippi State University
18. **A Parallel Multi-scale Region Outlier Mining Algorithm For Meteorological Data**
Sajib Barua, University of Calgary; Reda Alhaji, University of Calgary
19. **Efficient KNN Processing over Moving Objects with Uncertain Velocity**
Yuan-Ko Huang, Cheng-Kung University; Chao-Chun Chen, Southern Taiwan University of Technology; Chiang Lee, Cheng-Kung University
20. **ClusterBy: A New SQL Extension for Spatial Data Aggregation**
Chengyang Zhang, University of North Texas; Yan Huang, University of North Texas
21. **Towards the Automatic Generation of Web GIS**
Sergio Di Martino, University of Salerno; Filomena Ferrucci, University of Salerno; Luca Paolino, University of Salerno; Monica Sebillio, University of Salerno; Giuliana Vitiello, University of Salerno; Giuseppe Avagliano, University of Salerno; Genny Tortora, University of Salerno
22. **Selective Decompression of Vector Maps**
Raquel Viana, University of Alcalá
23. **Cell-Based Generalization of 3D Building Groups with Outlier Management**
Tassilo Glander, University of Potsdam; Jürgen Döllner, University of Potsdam
24. **Using Object Deputy Database to Realize Multi-Representation Geographic Information System**
Zhiyong Peng, Wuhan University; Yuwei Peng, Wuhan University; Boxuan Zhai, Wuhan University
25. **Analysis of Implicit Interest Indicators for Spatial Data**
Eoin Mac Aoidh, University College Dublin; Michela Bertolotto, University College Dublin; David Wilson, University of North Carolina at Charlotte
26. **Predicting Future Locations of Mobile Objects Using Trajectory Clusters**
Sigal Elnekave, Ben-Gurion University; Mark Last, Ben-Gurion University; Oded Maimon, Tel Aviv University
27. **TS2-tree - an Efficient Similarity Based Organization for Trajectory Data.**
Petko Bakalov, University of California at Riverside; Eamonn Keogh, University of California at Riverside; Vassilis Tsotras, University of California at Riverside
28. **A Middle-Insertion Algorithm for Markov Chain Simulation of Soil Layering**
Weidong Li, Kent State University; Chuanrong Zhang, Kent State University
29. **Geospatial Data Qualities as Web Services Performance Metrics**
Ganesh Subbiah, University of Texas at Dallas; Ashrafal Alam, University of Texas at Dallas; Latifur Khan, University of Texas at Dallas; Bhavani Thuraisingham, University of Texas at Dallas