
Contents

Part I Geostatistical Modeling Aspects and New (Geo)statistical Tools	
How We Build Geostatistical Models and Deal with Their Output	
<i>Edzer J. Pebesma</i>	3
Spartan Random Fields: Smoothness Properties of Gaussian Densities and Definition of Certain Non-Gaussian Models	
<i>Dionissios T. Hristopulos</i>	17
Bayesian Trans-Gaussian Kriging with Log-Log Transformed Skew Data	
<i>Gunter Spöck, Hannes Kazianka, and Jürgen Pilz</i>	29
Kriging and Splines: Theoretical Approach to Linking Spatial Prediction Methods	
<i>Philipp Pluch</i>	45
ANNEX Model: Artificial Neural Networks with External Drift Environmental Data Mapping	
<i>R. Parkin and M. Kanevski</i>	57
Regional Classification of Indoor Radon Data with Support Vector Machines and Geostatistical Tools	
<i>A. Chaouch, M. Kanevski, M. Maignan, A. Pozdnoukhov, J. Rodriguez, and G. Piller</i>	65
Daubechies Wavelets for Identification of Rock Variants from IR Spectra	
<i>Vera Hofer, Jürgen Pilz, and Thorgeir S. Helgason</i>	79

Part II Geostatistical Applications

- Simulating the Effects of Rural Development Policies on Land Use: Evidence from Spatially Explicit Modeling in the Central Highlands of Vietnam**
Daniel Müller and Darla K. Munroe 91
- Kriged Road-Traffic Maps**
Hans Braxmeier, Volker Schmidt, and Evgeny Spodarev 105
- On Evaluation of Precipitation Fields with Rain Station Data**
Bodo Ahrens 121
- Robust Spatial Correlation Analysis of the ETEX-1 Tracer Data**
Syed Shibli and Gregoire Dubois 137
- Fuzzy Model of Soil Polygons for Managing the Imprecision**
Rangsim Sunila and Pekka Horttanainen 153
- Mapping the Contaminant Legacy of a Coking Plant, The Avenue, Chesterfield, UK**
Monica Palaseanu-Lovejoy, Ian Douglas, and Robert Barr 161
- A Note on Numerical Solutions of Least Squares Adjustment in GNU Project Gama**
Aleš Čepěk and Jan Pytel 173
- Presentation of Entrepreneurship Data and Aspects of Spatial Modeling**
Robert J. Breitenecker, Jürgen Pilz, and Erich J. Schwarz 189

Part III Integrated Information Systems: Combining (Geo)Statistics, GIS and RDBMS

- GIS, Users, Developers, and Spatial Statistics: On Monarchs and Their Clothing**
Konstantin Krivoruchko and Roger Bivand 203
- Reassignment of the Farm Structure Statistical Data Using GIS and Spatialisation of the Results Based on Remotely Sensed Data**
M. Sambrakos and T. Tsiligiridis 223
- Epidemiological Information Systems**
V. Gómez-Rubio, J. Ferrándiz-Ferragud, and A. López-Quílez 235

Geomatics, Epidemiology and BioStatistics: An Application to Acute Coronary Syndrome
Théophile Niyonsenga, Josiane Courteau, Charmaine Dean, Abbas Hemiari, Goze Bénié, and Alain Vanasse 249

Interactive Cumulative Curves for Exploratory Classification Maps
Gennady Andrienko and Natalia Andrienko 261

Combining REmbeddedPostgres and PostGIS
Albrecht Gebhardt 273

Index 281

