

Interfacing Geostatistics and GIS

Bearbeitet von
Juergen Pilz

1. Auflage 2009. Buch. xv, 282 S. Hardcover

ISBN 978 3 540 33235 0

Format (B x L): 15,5 x 23,5 cm

Gewicht: 668 g

Weitere Fachgebiete > Geologie, Geographie, Klima, Umwelt > Geodäsie und
Geoplanung > Geostatistik

Zu [Leseprobe](#)

schnell und portofrei erhältlich bei

The logo for beck-shop.de features the text "beck-shop.de" in a bold, red, sans-serif font. Above the "i" in "shop" are three red dots of increasing size. Below the main text, the words "DIE FACHBUCHHANDLUNG" are written in a smaller, red, all-caps, sans-serif font.

beck-shop.de
DIE FACHBUCHHANDLUNG

Die Online-Fachbuchhandlung beck-shop.de ist spezialisiert auf Fachbücher, insbesondere Recht, Steuern und Wirtschaft. Im Sortiment finden Sie alle Medien (Bücher, Zeitschriften, CDs, eBooks, etc.) aller Verlage. Ergänzt wird das Programm durch Services wie Neuerscheinungsdienst oder Zusammenstellungen von Büchern zu Sonderpreisen. Der Shop führt mehr als 8 Millionen Produkte.

Contents

Part I Geostatistical Modeling Aspects and New (Geo)statistical Tools

How We Build Geostatistical Models and Deal with Their Output

Edzer J. Pebesma 3

Spartan Random Fields: Smoothness Properties of Gaussian Densities and Definition of Certain Non-Gaussian Models

Dionissios T. Hristopulos 17

Bayesian Trans-Gaussian Kriging with Log-Log Transformed Skew Data

Gunter Spöck, Hannes Kazianka, and Jürgen Pilz 29

Kriging and Splines: Theoretical Approach to Linking Spatial Prediction Methods

Philipp Pluch 45

ANNEX Model: Artificial Neural Networks with External Drift Environmental Data Mapping

R. Parkin and M. Kanevski 57

Regional Classification of Indoor Radon Data with Support Vector Machines and Geostatistical Tools

A. Chaouch, M. Kanevski, M. Maignan, A. Pozdnoukhov, J. Rodriguez, and G. Pillier 65

Daubechies Wavelets for Identification of Rock Variants from IR Spectra

Vera Hofer, Jürgen Pilz, and Thorgerir S. Helgason 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	
<i>Daniel Müller and Darla K. Munroe</i>	91
Kriged Road-Traffic Maps	
<i>Hans Braxmeier, Volker Schmidt, and Evgeny Spodarev</i>	105
On Evaluation of Precipitation Fields with Rain Station Data	
<i>Bodo Ahrens</i>	121
Robust Spatial Correlation Analysis of the ETEX-1 Tracer Data	
<i>Syed Shibli and Gregoire Dubois</i>	137
Fuzzy Model of Soil Polygons for Managing the Imprecision	
<i>Rangsima Sunila and Pekka Horttanainen</i>	153
Mapping the Contaminant Legacy of a Coking Plant, The Avenue, Chesterfield, UK	
<i>Monica Palaseanu-Lovejoy, Ian Douglas, and Robert Barr</i>	161
A Note on Numerical Solutions of Least Squares Adjustment in GNU Project Gama	
<i>Aleš Čeppek and Jan Pytel</i>	173
Presentation of Entrepreneurship Data and Aspects of Spatial Modeling	
<i>Robert J. Breitenecker, Jürgen Pilz, and Erich J. Schwarz</i>	189

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

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

Geomatics, Epidemiology and BioStatistics: An Application to Acute Coronary Syndrome	
<i>Théophile Niyonsenga, Josiane Courteau, Charmaine Dean, Abbas Hemuari, Goze Bénéé, and Alain Vanasse</i>	249
Interactive Cumulative Curves for Exploratory Classification Maps	
<i>Gennady Andrienko and Natalia Andrienko</i>	261
Combining REmbeddedPostgres and PostGIS	
<i>Albrecht Gebhardt</i>	273
Index	281

