

Copyright © 2003 by FDV

DEVELOPMENTS IN APPLIED STATISTICS

Urednika: Anuška Ferligoj, Andrej Mrvar
Editors:

Serijska: METODOLOŠKI ZVEZKI
Series:

Urednica serije: Anuška Ferligoj
Series Editor:

Izdajatelj: Fakulteta za družbene vede
Univerza v Ljubljani
p.p. 2547, 1001 Ljubljana
Republika Slovenija

*Publisher: Faculty of Social Sciences
University of Ljubljana
P.O.Box 2547
1001 Ljubljana, Slovenia*

Prelom: Andrej Mrvar, Žiga Virk
Typeset by:

Tiskano v Sloveniji
Printed in Slovenia by

Birografika BORI, d.o.o., Ljubljana

CIP - Kataložni zapis o publikaciji
Narodna in univerzitetna knjižnica, Ljubljana

311.1

DEVELOPMENTS in applied statistics / edited by Anuška Ferligoj
and Andrej Mrvar. - Ljubljana : FDV, 2003. - (Metodološki zvezki,
ISSN 1318-1726 ; 19)

ISBN 961-235-123-6

1. Ferligoj, Anuška
124896000

REFEREES

Kenneth Bailey, University of California, Los Angeles, USA
Andrej Blejec, University of Ljubljana, Slovenia
Maurizio Brizzi, University of Bologna, Italy
Brendan Bunting, University of Ulster at Jordanstown, North Ireland
Germà Coenders, University of Girona, Spain
Mick P. Couper, University of Michigan, USA
Herwig Friedl, Technical University Graz, Austria
Dario Gregori, University of Trieste, Italy
Mitja Hafner Fink, University of Ljubljana, Slovenia
Robin Henderson, Lancaster University, UK
Polona Kalan, Slovenian Forestry Institute, Slovenia
Damijana Kastelec, University of Ljubljana, Slovenia
Tina Kogovšek, University of Ljubljana, Slovenia
Dagmar Krebs, University of Giessen, Germany
Samo Kropivnik, University of Ljubljana, Slovenia
Nada Lavrač, Institut Josef Stefan, Ljubljana, Slovenia
Edith de Leeuw, Utrecht University, The Netherlands
Dunja Mladenič, Institut Josef Stefan, Ljubljana, Slovenia
Zdravko Mlinar, University of Ljubljana, Slovenia
Ivo W. Molenaar, Groningen University, The Netherlands
John O'Quigley, University of California, San Diego, USA
Mihael Perman, University of Ljubljana, Slovenia
Tibor Pogány, University of Rijeka, Croatia
Marko Polič, University of Ljubljana, Slovenia
Tamás Rudas, Eötvös Loránd University, Hungary
Albert Satorra, University Pompeu Fabra, Barcelona, Spain
Slavko Splichal, University of Ljubljana, Slovenia
Tine Stanovnik, University of Ljubljana, Slovenia
Janez Stare, University of Ljubljana, Slovenia
Vasja Vehovar, University of Ljubljana, Slovenia

Series **METODOLOŠKI ZVEZKI**

1. A. FERLIGOJ (Editor): Blejsko metodološko srečanje '87
2. K. MOMIROVIĆ: Uvod u analizu nominalnih varijabli
3. A. FERLIGOJ (Editor): Blejsko metodološko srečanje '88
4. A. FERLIGOJ: Razvrščanje v skupine
5. A. FERLIGOJ (Editor): Blejsko metodološko srečanje '89
6. S. SPLICHAL: Analiza besedil
7. G. AJDUKOVIĆ, J. JUG (Editors): Blejsko metodološko srečanje '90
8. A. FERLIGOJ, J. JUG (Editors): Blejsko metodološko srečanje '91
9. A. FERLIGOJ, A. KRAMBERGER (Editors):
Developments in Statistics and Methodology
10. A. FERLIGOJ, A. KRAMBERGER (Editors):
Contributions to Methodology and Statistics
11. A. FERLIGOJ, K. LESKOŠEK, T. KOGOVŠEK:
Zanesljivost in veljavnost merjenja
12. A. FERLIGOJ, A. KRAMBERGER (Editors): Developments in Data Analysis
13. V. OMLADIČ: Uporaba linearne algebre v statistiki
14. A. FERLIGOJ (Editor): Advances in Methodology, Data Analysis, and Statistics
15. A. FERLIGOJ, A. MRVAR (Editors): Developments in Survey Methodology
16. A. FERLIGOJ, A. MRVAR (Editors): New Approaches in Applied Statistics
17. A. MRVAR, A. FERLIGOJ (Editors): Developments in Statistics
18. A. FERLIGOJ, A. MRVAR (Editors):
Developments in Social Science Methodology
19. A. FERLIGOJ, A. MRVAR (Editors): Developments in Applied Statistics
20. A. CEDILNIK: Uvod v verjetnostni račun
21. A. MRVAR (Editor): Proceedings of the Seventh Young Statisticians Meeting

CONTENTS

I. INVITED LECTURE

J.C. Gower: Unified biplot geometry

II. DATA ANALYSIS

L. Čaklović: Graph distance in multicriteria decision making context

G. Neubauer: An IRT-approach for conjoint analysis

III. STATISTICS

A. Goia: Selection model in functional linear regression models for scalar response

A. Durio and E.D. Isaia: Parametric regression models by minimum L_2 criterion.

A study on the risks of fire and electric shocks of electronic transformers

A.A. Abu-Taleb: Estimation of lifetime distribution from incomplete data
and follow ups

K. Kopperschmidt and U. Pötter: A non-parametric mean residual life estimator:
An example from market research

A. Mango: On the normalization of χ^2 based contingency indices

IV. BIOSTATISTICS

K. Košmelj, A. Blejec, and D. Kompan: Exploratory data analysis as an efficient tool
for statistical analysis: A case study from analysis of experiments

D. Cziraky, T. Filipan, and A. Pisarović: Multivariate modelling with latent variables
in experimental design with an application to forestry data

V. SOCIAL SCIENCE METHODOLOGY

U. Reja, K. Lozar Manfreda, V. Hlebec, and V. Vehovar: Open-ended vs. close-ended
questions in Web questionnaires

J. Horvat, S. Katavić, M. Mikrut, and I. Ograjenšek: Conceptualising and measuring
culture in surveys: Case study in the Republic of Croatia

L. Pagani and C. Seghieri: Predictive validity of high school grade and other
characteristics on students' university careers using ROC analysis

J.H.P. Hoffmeyer-Zlotnik: New sampling designs and the quality of data

A. Eder and W.J. Gutjahr: Can simulation techniques contribute to microsociological
theory? The case of learning matrices

VI. APPLICATIONS

A. Žiberna and V. Žabkar: Application of end-users market segmentation using
statistical methods

J. Rován and J. Sambt: Socio-economic differences among Slovenian municipalities:
A cluster analysis approach

E. Mujkić and J. Rován: Statistical analysis of road accidents in Slovenia in
period 1996-2000