

THE ANNALS *of* APPLIED STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Special Section on Mathematics of Planet Earth 2013

- Section on the special year for mathematics of planet earth (MPE 2013)
TILMANN GNEITING 1349
- Inference for population dynamics in the Neolithic period
ANDREW W. BAGGALEY, RICHARD J. BOYS, ANDREW GOLIGHTLY,
GRAEME R. SARSON AND ANVAR SHUKUROV 1352
- Finding a consensus on credible features among several paleoclimate reconstructions
PANU ERÄSTÖ, LASSE HOLMSTRÖM, ATTE KORHOLA AND JAN WECKSTRÖM 1377
- Approximating the conditional density given large observed values via a multivariate
extremes framework, with application to environmental data
DANIEL COOLEY, RICHARD A. DAVIS AND PHILIPPE NAVEAU 1406
- A hierarchical max-stable spatial model for extreme precipitation
BRIAN J. REICH AND BENJAMIN A. SHABY 1430
- A dynamic nonstationary spatio-temporal model for short term prediction
of precipitation FABIO SIGRIST, HANS R. KÜNSCH AND WERNER A. STAHEL 1452
- Spatial analysis of wave direction data using wrapped Gaussian processes
GIOVANNA JONA-LASINIO, ALAN GELFAND AND MATTIA JONA-LASINIO 1478
- A toolbox for fitting complex spatial point process models using integrated nested
Laplace approximation (INLA) JANINE B. ILLIAN, SIGRUNN H. SØRBYE
AND HÅVARD RUE 1499
- Phenotypic evolution studied by layered stochastic differential equations
TROND REITAN, TORE SCHWEDER AND JORIJTJE HENDERIKS 1531
- Gap bootstrap methods for massive data sets with an application to transportation
engineering S. N. LAHIRI, C. SPIEGELMAN, J. APPIAH AND L. RILETT 1552
- Dynamical functional prediction and classification, with application to traffic
flow prediction JENG-MIN CHIOU 1588

Articles

- Dating medieval English charters
GELILA TILAHUN, ANDREY FEUERVERGER AND MICHAEL GERVERS 1615
- Assessing transient carryover effects in recurrent event processes, with application to
chronic health conditions CANDEMIR ÇİĞŞAR AND JERALD F. LAWLESS 1641
- Multiple hypothesis testing adjusted for latent variables, with an application to the
AGEMAP gene expression data YUNTING SUN, NANCY R. ZHANG
AND ART B. OWEN 1664
- Truth and memory: Linking instantaneous and retrospective self-reported cigarette
consumption HAO WANG, SAUL SHIFFMAN, SANDRA D. GRIFFITH
AND DANIEL F. HEITJAN 1689
- Toxicity profiling of engineered nanomaterials via multivariate dose-response
surface modeling TRINA PATEL, DONATELLO TELESCA, SAJI GEORGE
AND ANDRÉ E. NEL 1707
- Optimal obstacle placement with disambiguations
VURAL AKSAKALLI AND ELVAN CEYHAN 1730

THE ANNALS *of* APPLIED STATISTICS

AN OFFICIAL JOURNAL OF THE
INSTITUTE OF MATHEMATICAL STATISTICS

Articles—Continued from front cover

- A likelihood-based scoring method for peptide identification using mass spectrometry QUNHUA LI, JIMMY K. ENG AND MATTHEW STEPHENS 1775
- Latent demographic profile estimation in hard-to-reach groups
TYLER H. MCCORMICK AND TIAN ZHENG 1795
- Addressing missing data mechanism uncertainty using multiple-model multiple imputation: Application to a longitudinal clinical trial
JUNED SIDDIQUE, OFER HAREL AND CATHERINE M. CRESPI 1814
- Composite Gaussian process models for emulating expensive functions
SHAN BA AND V. ROSHAN JOSEPH 1838
- A semiparametric regression model for paired longitudinal outcomes with application in childhood blood pressure development HAI LIU AND WANZHU TU 1861
- Probabilistic prediction of neurological disorders with a statistical assessment of neuroimaging data modalities. M. FILIPPONE, A. F. MARQUAND, C. R. V. BLAIN, S. C. R. WILLIAMS, J. MOURÃO-MIRANDA AND M. GIROLAMI 1883
- Evaluating stationarity via change-point alternatives with applications to fMRI data
JOHN A. D. ASTON AND CLAUDIA KIRCH 1906
- The ranking lasso and its application to sport tournaments
GUIDO MASAROTTO AND CRISTIANO VARIN 1949
- Bayesian inference and the parametric bootstrap. BRADLEY EFRON 1971