

CONTENTS

Preface	ix
Nonuniform Sampling: Bandwidth and Aliasing.....	1
G. L. Bretthorst	
Optimal Pulses	29
C. R. Smith and P. M. Goggans	
Bayesian Classification Using an Entropy Prior on Mixture Models	42
J. L. Center, Jr.	
Model Selection for Inverse Problems: Best Choice of Basis Functions and Model Order Selection.....	71
A. Mohammad-Djafari	
Optimal Recovery of Local Truth	89
C. C. Rodriguez	
Axioms for Probability from Aggregability	116
A. T. Wilson	
Entropy Is Only Approximately Aggregatable	124
A. T. Wilson	
QDOE (Quantitative Design of Experiments): Some Lessons from Field Experience and a Connection to Bayesian Methods	135
T. Chwastyk, R. Badaliance, L. Gause, P. Mast, and J. Michopoulos	
Temperature-Based Ascendancy Derived from a Cost or Reward Function	155
D. Collins	
Maxentropic Reconstruction by First Order Splines	177
H. Gzyl and Y. Velasquez	
Bayesian Background Estimation.....	193
R. Fischer, V. Dose, K. M. Hanson, and W. von der Linden	
Handling Discordant Data Sets	213
R. Preuss, P. Pecher, and V. Dose	
A Bayesian Approach to Source Separation.....	221
A. Mohammad-Djafari	
Bayesian Blocks	245
J. D. Scargle	
Estimating Fish Concentrations Using Trawl Data.....	257
G. A. Vignaux, S. Paul, and D. Gresham	
Application of Bayesian Inference to the Study of Hierarchical Organization in Self-Organized Complex Adaptive Systems.....	264
K. H. Knuth	
A Bayesian Markov Chain Monte Carlo Solution of the Bilinear Problem.....	274
M. F. Ochs, R. S. Stoyanova, T. R. Brown, W. D. Rooney, and C. S. Springer, Jr.	
Utilizing MRI to Measure the Transcytolemmal Water Exchange Rate for the Rat Brain.....	285
J. D. Quirk, G. L. Bretthorst, and J. J. Neil	

Independence Relationships Implied by D-Separation in the Bayesian Model of a Causal Tree Are Preserved by the Maximum Entropy Model.....	296
D. E. Holmes	
Subject Index	309
Author Index.....	313