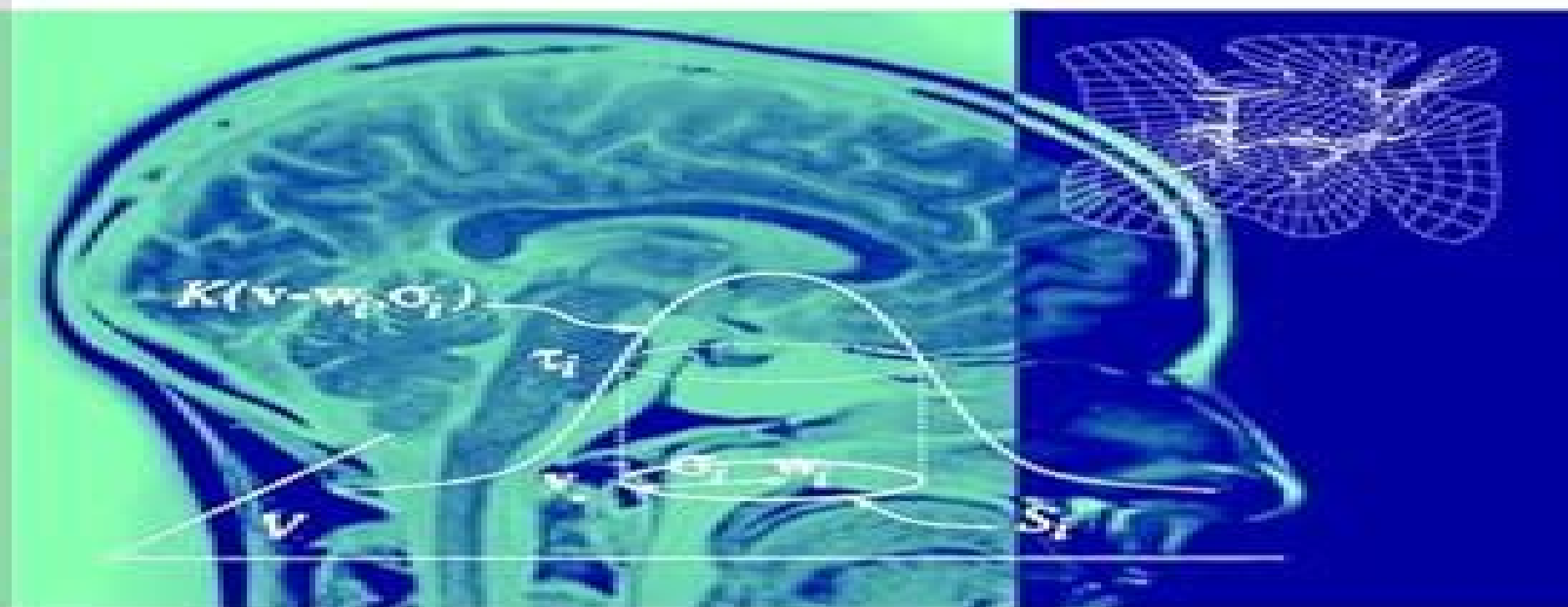


Faithful Representations and Topographic Maps

From Distortion- to Information-Based
Self-Organization

Marc M. Van Hulle



Faithful Representations And Topographic Maps From Distortion To Information Based Self Organization

**Giansalvo Cirrincione, Maurizio
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Faithful Representations And Topographic Maps From Distortion To Information Based Self Organization:

Computational Intelligence: A Compendium John Fulcher, L. C. Jain, 2008-06-16 Computational Intelligence A Compendium presents a well structured overview about this rapidly growing field with contributions of leading experts in Computational Intelligence The main focus of the compendium is on applied methods tried and proven effective to realworld problems which is especially useful for practitioners researchers students and also newcomers to the field The 25 chapters are grouped into the following themes I Overview and Background II Data Preprocessing and Systems Integration III Artificial Intelligence IV Logic and Reasoning V Ontology VI Agents VII Fuzzy Systems VIII Artificial Neural Networks IX Evolutionary Approaches X DNA and Immune based Computing

Faithful Representations and Topographic Maps Marc M. Van Hulle, 2000-02 A new perspective on topographic map formation and the advantages of information based learning The study of topographic map formation provides us with important tools for both biological modeling and statistical data modeling Faithful Representations and Topographic Maps offers a unified systematic survey of this rapidly evolving field focusing on current knowledge and available techniques for topographic map formation The author presents a cutting edge information based learning strategy for developing equiprobabilistic topographic maps that is maps in which all neurons have an equal probability to be active clearly demonstrating how this approach yields faithful representations and how it can be successfully applied in such areas as density estimation regression clustering and feature extraction The book begins with the standard approach of distortion based learning discussing the commonly used Self Organizing Map SOM algorithm and other algorithms and pointing out their inadequacy for developing equiprobabilistic maps It then examines the advantages of information based learning techniques and finally introduces a new algorithm for equiprobabilistic topographic map formation using neurons with kernel based response characteristics The complete learning algorithms and simulation details are given throughout along with comparative performance analysis tables and extensive references Faithful Representations and Topographic Maps is an excellent eye opening guide for neural network researchers industrial scientists involved in data mining and anyone interested in self organization and topographic maps

Advances in Self-Organising Maps Nigel Allinson, Hujun Yin, Lesley Allinson, Jon Slack, 2012-12-06 This is the third Workshop on Self Organising Maps WSOM and its related techniques The previous two were held in Helsinki 1997 and 1999 and confirmed the vitality of the SOM as one of the most popular and powerful concepts for unsupervised pattern recognition and data visualisation These meetings not only acted as a showcase for the latest advances in SOM theory and for illustrating its vast range of applicability but also as venues where much informal and fruitful interaction could take place It is interesting to observe the development of the original SOM and this remarkable progress confirms the originality and insight of Teuvo Kohonen's pioneering work With the range and quality of the papers in this volume the stage is set for another very successful meeting This volume is a permanent record of all the contributions presented during WSOM OI held at the University of Lincolnshire and Humberside

13 15 June 2001 The University is the newest of England's universities but it is situated in the heart of one of our oldest cities founded by the Romans and overlooked by the towering mass of its medieval cathedral Primarily Lincoln has always been a centre for the rich agricultural heartland of England however it was the birthplace 186 years ago of George Boole So WSOM OI is continuing Lincoln's long and honourable tradition of advancing scientific understanding *Self-Organizing Maps* Teuvo Kohonen, 2012-12-06 Since the second edition of this book came out in early 1997 the number of scientific papers published on the Self Organizing Map SOM has increased from about 1500 to some 4000 Also two special workshops dedicated to the SOM have been organized not to mention numerous SOM sessions in neural network conferences In view of this growing interest it was felt desirable to make extensive revisions to this book They are of the following nature Statistical pattern analysis has now been approached more carefully than earlier A more detailed discussion of the eigenvectors and eigenvalues of symmetric matrices which are the type usually encountered in statistics has been included in Sect 1 1 3 also new probabilistic concepts such as factor analysis have been discussed in Sect 1 3 1 A survey of projection methods Sect 1 3 2 has been added in order to relate the SOM to classical paradigms Vector Quantization is now discussed in one main section and derivation of the point density of the codebook vectors using the calculus of variations has been added in order to familiarize the reader with this otherwise complicated statistical analysis It was also felt that the discussion of the neural modeling philosophy should include a broader perspective of the main issues A historical review in Sect 2 2 and the general philosophy in Sects 2 3 2 5 and 2 14 are now expected to especially help newcomers to orient themselves better amongst the profusion of contemporary neural models **Neural Information Processing** Tingwen Huang, Zhigang Zeng, Chuandong Li, Chi Sing Leung, 2012-11-05 The five volume set LNCS 7663 LNCS 7664 LNCS 7665 LNCS 7666 and LNCS 7667 constitutes the proceedings of the 19th International Conference on Neural Information Processing ICONIP 2012 held in Doha Qatar in November 2012 The 423 regular session papers presented were carefully reviewed and selected from numerous submissions These papers cover all major topics of theoretical research empirical study and applications of neural information processing research The 5 volumes represent 5 topical sections containing articles on theoretical analysis neural modeling algorithms applications as well as simulation and synthesis **Knowledge-Based Intelligent Information and Engineering Systems** Mircea Gh. Negoita, 2004-10-14 We were very pleased to once again extend to the delegates and we are pleased to say our friends the warmest of welcomes to the 8 International Conference on Knowledge Based Intelligent Information and Engineering Systems at Wellington Institute of Technology in Wellington New Zealand The KES conferences attract a wide range of interest The broad focus of the conference series is the theory and applications of computational intelligence and emergent technologies Once purely a research field intelligent systems have advanced to the point where their abilities have been incorporated into many conventional application areas The quest to encapsulate human knowledge and capabilities in domains such as reasoning problem solving sensory analysis and other complex areas has been avidly

pursued This is because it has been demonstrated that these abilities have definite practical applications The techniques long ago reached the point where they are being exploited to provide commercial advantages for companies and real beneficial effects on profits KES 2004 provided a valuable mechanism for delegates to obtain a profound view of the latest intelligent systems research into a range of algorithms tools and techniques KES 2004 also gave delegates the chance to come into contact with those applying intelligent systems in diverse commercial areas The combination of theory and practice represents a uniquely valuable opportunity for appreciating the full spectrum of intelligent systems activity and the state of the art

Self-Organizing Neural Networks Udo Seiffert, 2013-11-11 The Self Organizing Map SOM is one of the most frequently used architectures for unsupervised artificial neural networks Introduced by Teuvo Kohonen in the 1980s SOMs have been developed as a very powerful method for visualization and unsupervised classification tasks by an active and innovative community of international researchers A number of extensions and modifications have been developed during the last two decades The reason is surely not that the original algorithm was imperfect or inadequate It is rather the universal applicability and easy handling of the SOM Compared to many other network paradigms only a few parameters need to be arranged and thus also for a beginner the network leads to useful and reliable results Nevertheless there is scope for improvements and sophisticated new developments as this book impressively demonstrates The number of published applications utilizing the SOM appears to be unending As the title of this book indicates the reader will benefit from some of the latest theoretical developments and will become acquainted with a number of challenging real world applications Our aim in producing this book has been to provide an up to date treatment of the field of self organizing neural networks which will be accessible to researchers practitioners and graduated students from diverse disciplines in academics and industry We are very grateful to the father of the SOMs Professor Teuvo Kohonen for supporting this book and contributing the first chapter

Knowledge-based Intelligent Information Engineering Systems & Allied Technologies Norio Baba, L. C. Jain, Robert J. Howlett, 2001 The annual Kes International Conference in Knowledge based Intelligent Information Engineering Systems and Allied Technologies has become an event that is held in high regard by the intelligent systems community The proceedings of the fifth conference represents a comprehensive survey of research on the theory and application of knowledge based intelligent systems including topics such as generic intelligent techniques artificial neural networks machine learning fuzzy and neuro fuzzy techniques and artificial life applications of intelligent systems condition monitoring fault diagnosis image processing and high voltage systems and allied technologies communications the Internet and web based technologies e commerce and computer pets The proceedings should be of interest to those in the intelligent systems field such as engineers researchers and students

Knowledge-Based Intelligent Information and Engineering Systems Bogdan Gabrys, 2006-10-11 The three volume set LNAI 4251 LNAI 4252 and LNAI 4253 constitutes the refereed proceedings of the 10th International Conference on Knowledge Based Intelligent Information and Engineering Systems KES

2006 held in Bournemouth UK in October 2006 The 480 revised papers presented were carefully reviewed and selected from about 1400 submissions The papers present a wealth of original research results from the field of intelligent information processing *Computational Intelligence Methods for Bioinformatics and Biostatistics* Francesco Masulli, Roberto Tagliaferri, 2009-07-14 This book constitutes the thoroughly refereed post conference proceedings of the Fifth International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB 2008 held in Vietri sul Mare Italy in October 2008 The 23 revised full papers presented together with 3 invited lectures were carefully reviewed and selected from 69 submissions The main goal of the CIBB meetings is to provide a forum open to researchers from different disciplines to present and discuss problems concerning computational techniques in bioinformatics systems biology and medical informatics with a particular focus on neural networks machine learning fuzzy logic and evolutionary computation methods

Advances in Self-Organizing Maps J.C. Principe, Risto Miikkulainen, 2009-05-27 This book constitutes the refereed proceedings of the 7th International Workshop on Advances in Self Organizing Maps WSOM 2009 held in St Augustine Florida in June 2009 The 41 revised full papers presented were carefully reviewed and selected from numerous submissions The papers deal with topics in the use of SOM in many areas of social sciences economics computational biology engineering time series analysis data visualization and theoretical computer science Biologically Inspired Approaches to Advanced Information Technology Auke Jan Ijspeert, 2006-01-11 The refereed proceedings of the Second International Workshop on Biologically Inspired Approaches to Advanced Information Technology BioADIT 2006 The contributions range from basic research in biology and in information technology to more application oriented developments in software and in hardware The papers are organized in topical sections on robotics networking biological systems self organization evolutionary computation and modeling and imaging *Adaptive Approximation Based Control* Jay A. Farrell, Marios M. Polycarpou, 2006-04-14 A highly accessible and unified approach to the design and analysis of intelligent control systems Adaptive Approximation Based Control is a tool every control designer should have in his or her control toolbox Mixing approximation theory parameter estimation and feedback control this book presents a unified approach designed to enable readers to apply adaptive approximation based control to existing systems and more importantly to gain enough intuition and understanding to manipulate and combine it with other control tools for applications that have not been encountered before The authors provide readers with a thought provoking framework for rigorously considering such questions as What properties should the function approximator have Are certain families of approximators superior to others Can the stability and the convergence of the approximator parameters be guaranteed Can control systems be designed to be robust in the face of noise disturbances and unmodeled effects Can this approach handle significant changes in the dynamics due to such disruptions as system failure What types of nonlinear dynamic systems are amenable to this approach What are the limitations of adaptive approximation based control Combining theoretical formulation and design techniques with extensive

use of simulation examples this book is a stimulating text for researchers and graduate students and a valuable resource for practicing engineers *Artificial Neural Networks - ICANN 2007* Joaquim Marques de Sá, Luis A. Alexandre, Wlodzislaw

Duch, Danilo Mandic, 2007-09-14 This book is the first of a two volume set that constitutes the refereed proceedings of the 17th International Conference on Artificial Neural Networks ICANN 2007 held in Porto Portugal September 2007 Coverage includes advances in neural network learning methods advances in neural network architectures neural dynamics and complex systems data analysis evolutionary computing agents learning as well as temporal synchronization and nonlinear dynamics in neural networks *Neural-Based Orthogonal Data Fitting* Giansalvo Cirrincione, Maurizio

Cirrincione, 2011-04-06 The presentation of a novel theory in orthogonal regression The literature about neural based algorithms is often dedicated to principal component analysis PCA and considers minor component analysis MCA a mere consequence Breaking the mold Neural Based Orthogonal Data Fitting is the first book to start with the MCA problem and arrive at important conclusions about the PCA problem The book proposes several neural networks all endowed with a complete theory that not only explains their behavior but also compares them with the existing neural and traditional algorithms EXIN neurons which are of the authors invention are introduced explained and analyzed Further it studies the algorithms as a differential geometry problem a dynamic problem a stochastic problem and a numerical problem It demonstrates the novel aspects of its main theory including its applications in computer vision and linear system identification The book shows both the derivation of the TLS EXIN from the MCA EXIN and the original derivation as well as Shows TLS problems and gives a sketch of their history and applications Presents MCA EXIN and compares it with the other existing approaches Introduces the TLS EXIN neuron and the SCG and BFGS acceleration techniques and compares them with TLS GAO Outlines the GeTLS EXIN theory for generalizing and unifying the regression problems Establishes the GeMCA theory starting with the identification of GeTLS EXIN as a generalization eigenvalue problem In dealing with mathematical and numerical aspects of EXIN neurons the book is mainly theoretical All the algorithms however have been used in analyzing real time problems and show accurate solutions Neural Based Orthogonal Data Fitting is useful for statisticians applied mathematics experts and engineers *Adaptive Control Design and Analysis* Gang Tao, 2003-07-09 A systematic and unified presentation of the fundamentals of adaptive control theory in both continuous time and discrete time Today adaptive control theory has grown to be a rigorous and mature discipline As the advantages of adaptive systems for developing advanced applications grow apparent adaptive control is becoming more popular in many fields of engineering and science Using a simple balanced and harmonious style this book provides a convenient introduction to the subject and improves one's understanding of adaptive control theory Adaptive Control Design and Analysis features Introduction to systems and control Stability operator norms and signal convergence Adaptive parameter estimation State feedback adaptive control designs Parametrization of state observers for adaptive control Unified continuous and discrete time adaptive control L1 a robustness

theory for adaptive systems Direct and indirect adaptive control designs Benchmark comparison study of adaptive control designs Multivariate adaptive control Nonlinear adaptive control Adaptive compensation of actuator nonlinearities End of chapter discussion problems and advanced topics As either a textbook or reference this self contained tutorial of adaptive control design and analysis is ideal for practicing engineers researchers and graduate students alike **Challenging**

Problems and Solutions in Intelligent Systems Guy de Trè, Przemysław Grzegorzewski, Janusz Kacprzyk, Jan W.

Owsiński, Wojciech Penczek, Sławomir Zadrozny, 2016-03-25 This volume presents recent research challenging problems and solutions in Intelligent Systems covering the following disciplines artificial and computational intelligence fuzzy logic and other non classic logics intelligent database systems information retrieval information fusion intelligent search engines data mining cluster analysis unsupervised learning machine learning intelligent data analysis group decision support systems intelligent agents and multi agent systems knowledge based systems imprecision and uncertainty handling electronic commerce distributed systems etc The book defines a common ground for sometimes seemingly disparate problems and addresses them by using the paradigm of broadly perceived intelligent systems It presents a broad panorama of a multitude of theoretical and practical problems which have been successfully dealt with using the paradigm of intelligent computing

Artificial Neural Networks - ICANN 2008 Vera Kůrková, 2008-08-25 This two volume set LNCS 5163 and LNCS 5164 constitutes the refereed proceedings of the 18th International Conference on Artificial Neural Networks ICANN 2008 held in Prague Czech Republic in September 2008 The 200 revised full papers presented were carefully reviewed and selected from more than 300 submissions The first volume contains papers on mathematical theory of neurocomputing learning algorithms kernel methods statistical learning and ensemble techniques support vector machines reinforcement learning evolutionary computing hybrid systems self organization control and robotics signal and time series processing and image processing

Advances in Neural Networks - ISNN 2006 Jun Wang, 2006-05-11 Annotation The three volume set LNCS 3971 3972 3973 constitutes the refereed proceedings of the Third International Symposium on Neural Networks ISNN 2006 held in Chengdu China in May June 2006 The 616 revised papers presented were carefully reviewed and selected from about 2 500 submissions The papers are organized in topical sections on neurobiological analysis theoretical analysis neurodynamic optimization learning algorithms model design kernel methods ICA and BSS data preprocessing pattern classification computer vision image processing signal processing system modeling control systems robotic systems power systems transportation systems communication networks information security fault detection financial analysis neuroinformatics bioinformatics biomedical applications industrial applications other applications and hardware implementation

Model-Based Signal Processing James V. Candy, 2005-10-27 A unique treatment of signal processing using a model based perspective Signal processing is primarily aimed at extracting useful information while rejecting the extraneous from noisy data If signal levels are high then basic techniques can be applied However low signal levels require using the

underlying physics to correct the problem causing these low levels and extracting the desired information Model based signal processing incorporates the physical phenomena measurements and noise in the form of mathematical models to solve this problem Not only does the approach enable signal processors to work directly in terms of the problem s physics instrumentation and uncertainties but it provides far superior performance over the standard techniques Model based signal processing is both a modeler s as well as a signal processor s tool Model Based Signal Processing develops the model based approach in a unified manner and follows it through the text in the algorithms examples applications and case studies The approach coupled with the hierarchy of physics based models that the author develops including linear as well as nonlinear representations makes it a unique contribution to the field of signal processing The text includes parametric e g autoregressive or all pole sinusoidal wave based and state space models as some of the model sets with its focus on how they may be used to solve signal processing problems Special features are provided that assist readers in understanding the material and learning how to apply their new knowledge to solving real life problems Unified treatment of well known signal processing models including physics based model sets Simple applications demonstrate how the model based approach works while detailed case studies demonstrate problem solutions in their entirety from concept to model development through simulation application to real data and detailed performance analysis Summaries provided with each chapter ensure that readers understand the key points needed to move forward in the text as well as MATLAB r Notes that describe the key commands and toolboxes readily available to perform the algorithms discussed References lead to more in depth coverage of specialized topics Problem sets test readers knowledge and help them put their new skills into practice The author demonstrates how the basic idea of model based signal processing is a highly effective and natural way to solve both basic as well as complex processing problems Designed as a graduate level text this book is also essential reading for practicing signal processing professionals and scientists who will find the variety of case studies to be invaluable An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department

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