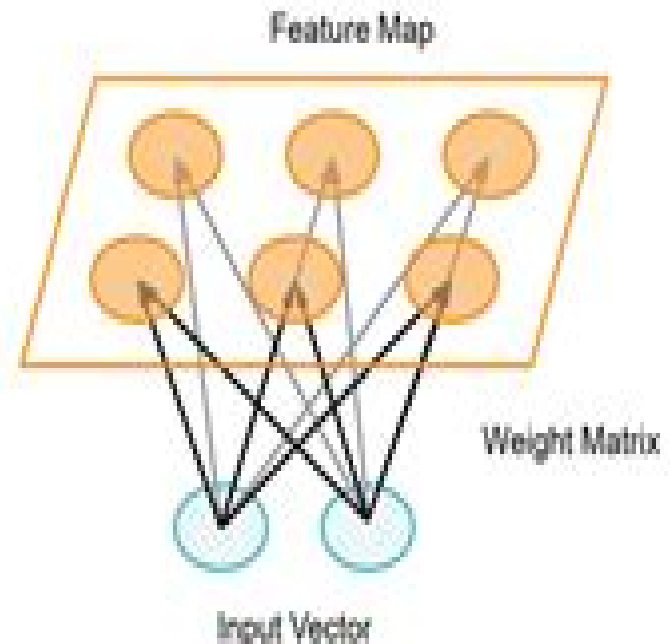


Self-Organizing Maps: Introduction



Self Organizing Maps Self Organizing Maps

Jorma Laaksonen, Timo Honkela



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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 *Applications of Self-Organizing Maps* Magnus

Johnsson, 2012-11-21 The self organizing map first described by the Finnish scientist Teuvo Kohonen can be applied to a wide range of fields This book is about such applications i e how the original self organizing map as well as variants and extensions of it can be applied in different fields In fourteen chapters a wide range of such applications is discussed To name a few these applications include the analysis of financial stability the fault diagnosis of plants the creation of well composed

heterogeneous teams and the application of the self organizing map to the atmospheric sciences *Applications of Self-Organizing Maps* Magnus Johnsson, 2012-11-21 The self organizing map first described by the Finnish scientist Teuvo Kohonen can be applied to a wide range of fields This book is about such applications i e how the original self organizing map as well as variants and extensions of it can be applied in different fields In fourteen chapters a wide range of such applications is discussed To name a few these applications include the analysis of financial stability the fault diagnosis of plants the creation of well composed heterogeneous teams and the application of the self organizing map to the atmospheric sciences

Advances in Self-Organizing Maps Jorma Laaksonen, Timo Honkela, 2011-06-13 This book constitutes the refereed proceedings of the 8th International Workshop on Self Organizing Maps WSOM 2011 held in Espoo Finland in June 2011 The 36 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on plenaries financial and societal applications theory and methodology applications of data mining and analysis language processing and document analysis and visualization and image processing *Study of*

Self-Organizing Maps Jeremy Rogerson, 2015-01-16 This book presents analysis and applications of self organizing maps in

various domains The self organizing map first explained by Finnish scientist Teuvo Kohonen can be used for a broad spectrum of fields and this book explains how the original self organizing map along with its variants and extensions can be applied in diverse fields These applications comprise of the examination of financial stability the fault diagnosis of plants the generation of well composed heterogeneous teams and the application of the self organizing map to atmospheric sciences

Self Organizing Maps Josphat Igadwa Mwasiagi,2011-01-21 Kohonen Self Organizing Maps SOM has found application in practical all fields especially those which tend to handle high dimensional data SOM can be used for the clustering of genes in the medical field the study of multi media and web based contents and in the transportation industry just to name a few Apart from the aforementioned areas this book also covers the study of complex data found in meteorological and remotely sensed images acquired using satellite sensing Data management and envelopment analysis has also been covered The application of SOM in mechanical and manufacturing engineering forms another important area of this book The final section of this book addresses the design and application of novel variants of SOM algorithms

Advances in Self-Organizing Maps Pablo A. Estévez,José C. Príncipe,Pablo Zegers,2012-12-14 Self organizing maps SOMs were developed by Teuvo Kohonen in the early eighties Since then more than 10 000 works have been based on SOMs SOMs are unsupervised neural networks useful for clustering and visualization purposes Many SOM applications have been developed in engineering and science and other fields This book contains refereed papers presented at the 9th Workshop on Self Organizing Maps WSOM 2012 held at the Universidad de Chile Santiago Chile on December 12 14 2012 The workshop brought together researchers and practitioners in the field of self organizing systems Among the book chapters there are excellent examples of the use of SOMs in agriculture computer science data visualization health systems economics engineering social sciences text and image analysis and time series analysis Other chapters present the latest theoretical work on SOMs as well as Learning Vector Quantization LVQ methods

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 confrms 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-Organising Maps
Pragya Agarwal,Andre Skupin,2008-04-15 Self Organising Maps Applications in GI Science brings together the latest
geographical research where extensive use has been made of the SOM algorithm and provides readers with a snapshot of
these tools that can then be adapted and used in new research projects The book begins with an overview of the SOM
technique and the most commonly used and freely available software it is then sectioned to look at the different uses of the
technique namely clustering data mining and cartography from a range of application areas in the biophysical and socio
economic environments Only book that takes SOM algorithm to the GIS and Geography research communities The Editors
draw together expert contributors from the UK Europe USA New Zealand and South Africa Covers a range of techniques in
clustering data mining cartography all featuring an appropriate case study *Self-Organizing Maps* George K
Matsopoulos,2010 The Self Organizing Map SOM is a neural network algorithm which uses a competitive learning technique
to train itself in an unsupervised manner SOMs are different from other artificial neural networks in the sense that they use a
neighborhood function to preserve the topological properties of the input space and they have been used to create an
ordered representation of multi dimensional data which simplifies complexity and reveals meaningful relationships Prof T
Kohonen in the early 1980s first established the relevant theory and explored possible applications of SOMs Since then a
number of theoretical and practical applications of SOMs have been reported including clustering prediction data
representation classification visualization etc This book was prompted by the desire to bring together some of the more
recent theoretical and practical developments on SOMs and to provide the background for future developments in promising
directions The book comprises of 25 Chapters which can be categorized into three broad areas methodology visualization and
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