

plified by the fact that the word “milk” often occurs soon after the word “cow”, but beyond a certain point any improvement in performance must result from a deeper understanding of the text’s meaning.

Although standard RNNs are very expressive, we found that achieving competitive results on character-level language modeling required the development of a different type of RNN that was better suited to our application. This new “MRNN” architecture uses multiplicative connections to allow the current input character to determine the hidden-to-hidden weight matrix. We trained MRNNs on over a hundred of megabytes of text for several days using 8 Graphics Processing Units in parallel to perform significantly better than one of the best word-agnostic single character-level language models: the sequence memorizer (Wood et al., 2009; Gasthaus et al., 2010), which is a hierarchical nonparametric Bayesian method. It defines a prior process on the set of predictions at every conceivable context, with judiciously chosen details that make approximate inference computationally tractable. The memorizer induces dependencies between its predictions by making similar predictions at similar contexts. Although intelligent marginalization techniques are able to eliminate all but a relatively small number of the random variables (so the datastructures used scale linearly with the amount of data), its memory requirements are still prohibitively expensive for large datasets, which is a direct consequence of its nonparametric nature.

While our method performs at the state of the art for pure character-level models, its compression performance falls short of the best models which have explicit knowledge of words, the most powerful of these being PAQ8hp12 (Mahoney, 2005). PAQ is a mixture model of a large number of well-chosen context models whose mixing proportions are computed by a neural network whose weights are a function of the current context, and whose predictions are further combined with a neural-network like model. Unlike standard compression techniques, some of PAQ’s context models not only consider contiguous contexts but also contexts with “gaps”, allowing it to capture some types of longer range structures cheaply. More significantly, PAQ is not word-agnostic, because it uses a combination of character-level and word-level models. PAQ also preprocesses the data with a dictionary of common English words which we disabled, because it gave PAQ an unfair advantage over models that do not use such task-specific (and indeed, English-specific) explicit prior knowledge. The numerous mixture components of PAQ were chosen because they improved performance on a development set, so in this respect PAQ is similar in model complexity to the winning entry of the netflix prize (Bell et al., 2007).

Finally, language models can be used to “generate” lan-

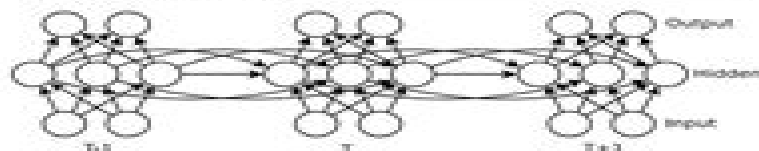


Figure 1. A Recurrent Neural Network is a very deep feedforward neural network whose weights are shared across time. The non-linear activation function used by the hidden units is the source of the RNN’s rich dynamics.

guage, and to our surprise, the text generated by the MRNNs we trained exhibited a significant amount of interesting and high-level linguistic structure, featuring a large vocabulary, a considerable amount of grammatical structure, and a wide variety of highly plausible proper names that were not in the training set. Mastering the vocabulary of English did not seem to be a problem for the MRNN: it generated very few uncapitalized non-words, and those that it did generate were often very plausible, like “homosomalist” or “un-ameliary”. Of particular interest was the fact that the MRNN learned to balance parentheses and quotes over long distances (e.g., 30 characters). A character-level N -gram language model could only do this by modeling 31-grams, and neither Memoizer nor PAQ are representationally capable of balancing parentheses because of their need for exact context matches. In contrast, the MRNN’s nonlinear dynamics enables it to extract higher level “knowledge” from the text, and there are no obvious limits to its representational power because of the ability of its hidden states to perform general computation.

2. Recurrent Neural Networks

A Recurrent Neural Network is a straightforward adaptation of the standard feed-forward neural network to allow it to model sequential data. At each timestep, the RNN receives an input, updates its hidden state, and makes a prediction (fig. 1). The RNN’s high dimensional hidden state and nonlinear evolution endow it with great expressive power, enabling the hidden state of the RNN to integrate information over many timesteps and use it to make accurate predictions. Even if the non-linearity used by each unit is quite simple, iterating it over time leads to very rich dynamics.

The standard RNN is formalized as follows: Given a sequence of input vectors (x_1, \dots, x_T) , the RNN computes a sequence of hidden states (h_1, \dots, h_T) and a sequence of outputs (o_1, \dots, o_T) by iterating the following equations

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**Raymond Chiong, Thomas
Weise, Zbigniew Michalewicz**



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Explainable AI: Interpreting, Explaining and Visualizing Deep Learning Wojciech Samek, Grégoire

Montavon, Andrea Vedaldi, Lars Kai Hansen, Klaus-Robert Müller, 2019-09-10 The development of intelligent systems that can take decisions and perform autonomously might lead to faster and more consistent decisions A limiting factor for a broader adoption of AI technology is the inherent risks that come with giving up human control and oversight to intelligent machines For sensitive tasks involving critical infrastructures and affecting human well being or health it is crucial to limit the possibility of improper non robust and unsafe decisions and actions Before deploying an AI system we see a strong need to validate its behavior and thus establish guarantees that it will continue to perform as expected when deployed in a real world environment In pursuit of that objective ways for humans to verify the agreement between the AI decision structure and their own ground truth knowledge have been explored Explainable AI XAI has developed as a subfield of AI focused on exposing complex AI models to humans in a systematic and interpretable manner The 22 chapters included in this book provide a timely snapshot of algorithms theory and applications of interpretable and explainable AI and AI techniques that have been proposed recently reflecting the current discourse in this field and providing directions of future development The book is organized in six parts towards AI transparency methods for interpreting AI systems explaining the decisions of AI systems evaluating interpretability and explanations applications of explainable AI and software for explainable AI

Handbook of Medical Image Processing and Analysis Isaac Bankman, 2008-12-24 The Handbook of Medical Image Processing and Analysis is a comprehensive compilation of concepts and techniques used for processing and analyzing medical images after they have been generated or digitized The Handbook is organized into six sections that relate to the main functions enhancement segmentation quantification registration visualization and compression storage and communication The second edition is extensively revised and updated throughout reflecting new technology and research and includes new chapters on higher order statistics for tissue segmentation tumor growth modeling in oncological image analysis analysis of cell nuclear features in fluorescence microscopy images imaging and communication in medical and public health informatics and dynamic mammogram retrieval from web based image libraries For those looking to explore advanced concepts and access essential information this second edition of Handbook of Medical Image Processing and Analysis is an invaluable resource It remains the most complete single volume reference for biomedical engineers researchers professionals and those working in medical imaging and medical image processing Dr Isaac N Bankman is the supervisor of a group that specializes on imaging laser and sensor systems modeling algorithms and testing at the Johns Hopkins University Applied Physics Laboratory He received his BSc degree in Electrical Engineering from Bogazici University Turkey in 1977 the MSc degree in Electronics from University of Wales Britain in 1979 and a PhD in Biomedical Engineering from the Israel Institute of Technology Israel in 1985 He is a member of SPIE Includes contributions from internationally renowned authors from leading institutions NEW 35 of 56

chapters have been revised and updated. Additionally five new chapters have been added on important topics including Nonlinear 3D Boundary Detection Adaptive Algorithms for Cancer Cytological Diagnosis Dynamic Mammogram Retrieval from Web Based Image Libraries Imaging and Communication in Health Informatics and Tumor Growth Modeling in Oncological Image Analysis. Provides a complete collection of algorithms in computer processing of medical images. Contains over 60 pages of stunning four color images. Handbook of Natural Language Processing Robert Dale, Hermann Moisl, Harold Somers, 2000-07-25 This study explores the design and application of natural language text based processing systems based on generative linguistics empirical corpus analysis and artificial neural networks. It emphasizes the practical tools to accommodate the selected system. *Proceedings of 6th International Conference on Recent Trends in Computing* Rajendra Prasad Mahapatra, B. K. Panigrahi, Brajesh K. Kaushik, Sudip Roy, 2021-04-20 This book is a collection of high quality peer reviewed research papers presented at Sixth International Conference on Recent Trends in Computing ICRTC 2020 held at SRM Institute of Science and Technology Ghaziabad Delhi India during 3-4 July 2020. The book discusses a wide variety of industrial engineering and scientific applications of the emerging techniques. The book presents original works from researchers from academic and industry in the field of networking security big data and the Internet of things. **Pattern Recognition and Signal Analysis in Medical Imaging** Anke Meyer-Baese, Volker J. Schmid, 2014-03-21 Medical imaging is one of the heaviest funded biomedical engineering research areas. The second edition of Pattern Recognition and Signal Analysis in Medical Imaging brings sharp focus to the development of integrated systems for use in the clinical sector enabling both imaging and the automatic assessment of the resultant data. Since the first edition there has been tremendous development of new powerful technologies for detecting storing transmitting analyzing and displaying medical images. Computer aided analytical techniques coupled with a continuing need to derive more information from medical images has led to a growing application of digital processing techniques in cancer detection as well as elsewhere in medicine. This book is an essential tool for students and professionals compiling and explaining proven and cutting edge methods in pattern recognition for medical imaging. New edition has been expanded to cover signal analysis which was only superficially covered in the first edition. New chapters cover Cluster Validity Techniques Computer Aided Diagnosis Systems in Breast MRI Spatio Temporal Models in Functional Contrast Enhanced and Perfusion Cardiovascular MRI. Gives readers an unparalleled insight into the latest pattern recognition and signal analysis technologies modeling and applications. Computer Analysis of Images and Patterns George Azzopardi, Nicolai Petkov, 2015-08-25 The two volume set LNCS 9256 and 9257 constitutes the refereed proceedings of the 16th International Conference on Computer Analysis of Images and Patterns CAIP 2015 held in Valletta Malta in September 2015. The 138 papers presented were carefully reviewed and selected from numerous submissions. CAIP 2015 is the sixteenth in the CAIP series of biennial international conferences devoted to all aspects of computer vision image analysis and processing pattern recognition and related fields. *Artificial Intelligence and Soft*

Computing Leszek Rutkowski, Marcin Korytkowski, Rafal Scherer, Ryszard Tadeusiewicz, Lotfi A. Zadeh, Jacek M. Zurada, 2013-06-04 The two volume set LNAI 7894 and LNCS 7895 constitutes the refereed proceedings of the 12th International Conference on Artificial Intelligence and Soft Computing ICAISC 2013 held in Zakopane Poland in June 2013. The 112 revised full papers presented together with one invited paper were carefully reviewed and selected from 274 submissions. The 57 papers included in the first volume are organized in the following topical sections: neural networks and their applications, fuzzy systems and their applications, pattern classification and computer vision, image and speech analysis.

Artificial Intelligence, Evolutionary Computing and Metaheuristics Xin-She Yang, 2012-07-27 Alan Turing pioneered many research areas such as artificial intelligence, computability, heuristics, and pattern formation. Nowadays, at the information age, it is hard to imagine how the world would be without computers and the Internet. Without Turing's work, especially the core concept of the Turing Machine at the heart of every computer, mobile phone, and microchip today, so many things on which we are so dependent would be impossible. 2012 is the Alan Turing year, a centenary celebration of the life and work of Alan Turing. To celebrate Turing's legacy and follow the footsteps of this brilliant mind, we take this golden opportunity to review the latest developments in areas of artificial intelligence, evolutionary computation, and metaheuristics, and all these areas can be traced back to Turing's pioneer work. Topics include Turing test, Turing machine, artificial intelligence, cryptography, software testing, image processing, neural networks, nature-inspired algorithms such as bat algorithm and cuckoo search, and multiobjective optimization and many applications. These reviews and chapters not only provide a timely snapshot of the state of art developments but also provide inspiration for young researchers to carry out potentially ground-breaking research in the active, diverse research areas in artificial intelligence, cryptography, machine learning, evolutionary computation, and nature-inspired metaheuristics. This edited book can serve as a timely reference for graduates, researchers, and engineers in artificial intelligence, computer sciences, computational intelligence, soft computing, optimization, and applied sciences. [Variants of Evolutionary Algorithms for Real-World Applications](#) Raymond Chiong, Thomas Weise, Zbigniew Michalewicz, 2011-11-13 Evolutionary Algorithms (EAs) are population-based stochastic search algorithms that mimic natural evolution. Due to their ability to find excellent solutions for conventionally hard and dynamic problems within acceptable time, EAs have attracted interest from many researchers and practitioners in recent years. This book, *Variants of Evolutionary Algorithms for Real-World Applications*, aims to promote the practitioner's view on EAs by providing a comprehensive discussion of how EAs can be adapted to the requirements of various applications in the real-world domains. It comprises 14 chapters, including an introductory chapter re-visiting the fundamental question of what an EA is, and other chapters addressing a range of real-world problems such as production process planning, inventory system and supply chain network optimisation, task-based jobs assignment planning for CNC-based work-piece construction, mechanical ship design tasks that involve runtime intense simulations, data mining for the prediction of soil properties, automated tissue classification for MRI images, and database

query optimisation among others These chapters demonstrate how different types of problems can be successfully solved using variants of EAs and how the solution approaches are constructed in a way that can be understood and reproduced with little prior knowledge on optimisation *Reinforcement Learning* Marco Wiering, Martijn van Otterlo, 2012-03-05

Reinforcement learning encompasses both a science of adaptive behavior of rational beings in uncertain environments and a computational methodology for finding optimal behaviors for challenging problems in control optimization and adaptive behavior of intelligent agents As a field reinforcement learning has progressed tremendously in the past decade The main goal of this book is to present an up to date series of survey articles on the main contemporary sub fields of reinforcement learning This includes surveys on partially observable environments hierarchical task decompositions relational knowledge representation and predictive state representations Furthermore topics such as transfer evolutionary methods and continuous spaces in reinforcement learning are surveyed In addition several chapters review reinforcement learning methods in robotics in games and in computational neuroscience In total seventeen different subfields are presented by mostly young experts in those areas and together they truly represent a state of the art of current reinforcement learning research Marco Wiering works at the artificial intelligence department of the University of Groningen in the Netherlands He has published extensively on various reinforcement learning topics Martijn van Otterlo works in the cognitive artificial intelligence group at the Radboud University Nijmegen in The Netherlands He has mainly focused on expressive knowledge representation in reinforcement learning settings **Vision Chips** Alireza Moini, 2012-12-06 This chapter presents a set of

introductory material which in addition to providing a general view on the topic highlights the importance of research in this area It also presents a short history of the design of smart vision sensors and points out some of the fundamental issues in the design of such sensors 1 1 A General Overview Machine vision is one of the main branches of artificial intelligence The richness of information present in images makes them the first choice as an input to an artificial system which tries to interact with its environment A large proportion of the brain of many advanced species is dedicated to visual information processing which illustrates the importance of visual information in biological systems Biological visual systems have evolved over millions of years and each specie has developed a specialized visual system tailored for the essential tasks of survival such as catching a prey or escaping a predator Implementing electronic hardware for image processing therefore may benefit from the underlying fundamental aspects of biological vision though in no respect should this be regarded as a solid framework for electronic vision systems Traditionally computer vision algorithms are performed on images captured by conventional cameras and processing is accomplished by means of general purpose digital computers More advanced systems utilize dedicated hardware to speed up the processing stage *Algorithms for Computational Biology* Daniel Figueiredo, Carlos Martín-Vide, Diogo Pratas, Miguel A. Vega-Rodríguez, 2017-05-26 This book constitutes the proceedings of the 4th International Conference on Algorithms for Computational Biology AlCoB 2017 held in Aveiro Portugal in June 2017

The 10 full papers presented together with 2 invited papers were carefully reviewed and selected from 24 submissions They are organized in the following topical sections Graph Algorithms for Computational Biology Phylogenetics and Sequence Analysis and Other Biological Processes Natural User Interfaces in Medical Image Analysis Marek R. Ogiela,Tomasz Hachaj,2014-06-07 This unique text reference highlights a selection of practical applications of advanced image analysis methods for medical images The book covers the complete methodology for processing analysing and interpreting diagnostic results of sample CT images The text also presents significant problems related to new approaches and paradigms in image understanding and semantic image analysis To further engage the reader example source code is provided for the implemented algorithms in the described solutions Features describes the most important methods and algorithms used for image analysis examines the fundamentals of cognitive computer image analysis for computer aided diagnosis and semantic image description presents original approaches for the semantic analysis of CT perfusion and CT angiography images of the brain and carotid artery discusses techniques for creating 3D visualisations of large datasets reviews natural user interfaces in medical imaging systems including GDL technology **River Basin Management - Challenges and Coping Strategies** ,2025-03-19 Rivers are lifelines for both human societies and ecosystems yet they face growing threats from climate change and human activities This book offers a comprehensive exploration of the latest methods and achievements in river research to address these challenges and promote the sustainable management of river systems The book investigates three key themes Firstly advanced monitoring technologies Discover advanced techniques such as wavelet analysis machine learning and environmental DNA methods which provide crucial data for assessing river health and guiding pollution control efforts Secondly improved modeling approaches Explore the soil erosion potential model and the integration of big data and machine learning in hydrodynamic models enabling more precise and effective river management Thirdly the usage of nature based solutions Nature based river restoration was investigated through a case study in Zambia s Kitwe region demonstrating their effectiveness in flood mitigation disaster reduction and ecosystem restoration This book aims to bridge science and practice offering innovative tools and approaches to address our rivers pressing challenges Recent Advances in Mathematical Sciences Adem Kılıçman,Hari M. Srivastava,M. Mursaleen,Zanariah Abdul Majid,2016-02-26 This book features selected papers from The Seventh International Conference on Research and Education in Mathematics that was held in Kuala Lumpur Malaysia from 25 27th August 2015 With chapters devoted to the most recent discoveries in mathematics and statistics and serve as a platform for knowledge and information exchange between experts from academic and industrial sectors it covers a wide range of topics including numerical analysis fluid mechanics operation research optimization statistics and game theory It is a valuable resource for pure and applied mathematicians statisticians engineers and scientists and provides an excellent overview of the latest research in mathematical sciences *Image Understanding Workshop* ,1994 **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

Digital Surgery Sam Atallah, 2020-07-31 This book provides a trove of insightful perspectives on the current state and the realization of digital surgery Digital surgery entails the application of artificial intelligence and machine learning toward automation in robotic assisted surgery More generally the objective is to digitally define the patient the surgical field and the surgical problem or task at hand to operate based on information rather than based on anatomic planes alone But digital surgery has shapeshifted into other equally intriguing faces many of which are exemplified by topics throughout this book Digital surgery is fundamental to 3D printed organs mind controlled limbs image guided navigation and tele mentoring It is the key that unlocks the metaphorical doorway to surgical access thereby creating a global framework for surgical training education planning and much more This text provides methods of measurement and perception outside of the human umwelt including the ability to visualize fields beyond the visible light spectrum via near infrared fluorescent organic dyes which are rapidly being bioengineered to target specific tumors as well as native anatomic structures of interest Written by experts in the field Digital Surgery is designed to help surgeons operate with an enriched understanding of an individual's specific attributes including the human phenome physiome microbiome genome and epigenome It also aids surgeons in harnessing the power and fluidity of the cloud which is emerging as a significant resource for surgeons both regionally and globally

Advances in Cardiac Signal Processing U. Rajendra Acharya, 2007-04-25 This book provides a comprehensive review of progress in the acquisition and extraction of electrocardiogram signals The coverage is extensive from a review of filtering techniques to measurement of heart rate variability to aortic pressure measurement to strategies for assessing contractile effort of the left ventricle and more The book concludes by assessing the future of cardiac signal processing leading to next generation research which directly impact cardiac health care

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