# LEARNING MACHINE TRANSLATION

edited by Cyril Goutte, Nicola Cancedda, Marc Dymetman, and George Foster

# Learning Machine Translation Neural Information Processing Series

**Pavan Turaga, Yunye Gong,P. Thomas Fletcher,Ajay Divakaran**

**Learning Machine Translation Neural Information Processing Series:**

**Problem solving activities in post-editing and translation from scratch** Jean Nitzke,2019 Companies and organisations are increasingly using machine translation to improve efficiency and cost effectiveness and then edit the machine translated output to create a fluent text that adheres to given text conventions This procedure is known as post editing Translation and post editing can often be categorised as problem solving activities When the translation of a source text unit is not immediately obvious to the translator or in other words if there is a hurdle between the source item and the target item the translation process can be considered problematic Conversely if there is no hurdle between the source and target texts the translation process can be considered a task solving activity and not a problem solving activity This study investigates whether machine translated output influences problem solving effort in internet research syntax and other problem indicators and whether the effort can be linked to expertise A total of 24 translators twelve professionals and twelve semi professionals produced translations from scratch from English into German and monolingually post edited machine translation output for this study The study is part of the CRITT TPR DB database The translation and monolingual post editing sessions were recorded with an eye tracker and a keylogging program The participants were all given the same six texts two texts per task Different approaches were used to identify problematic translation units First internet research behaviour was considered as research is a distinct indicator of problematic translation units Then the focus was placed on syntactical structures in the MT output that do not adhere to the rules of the target language as I assumed that they would cause problems in the monolingual post editing tasks that would not occur in the translation from scratch task Finally problem indicators were identified via different parameters like Munit which indicates how often the participants created and modified one translation unit or the inefficiency InEff value of translation units i e the number of produced and deleted tokens divided by the final length of the translation Finally the study highlights how these parameters can be used to identify problems in the translation process data using mere keylogging data *Log-Linear Models, Extensions, and Applications* Aleksandr Aravkin,Anna Choromanska,Li Deng,Georg Heigold,Tony Jebara,2024-12-03 Advances in training models with log linear structures with topics including variable selection the geometry of neural nets and applications Log linear models play a key role in modern big data and machine learning applications From simple binary classification models through partition functions conditional random fields and neural nets log linear structure is closely related to performance in certain applications and influences fitting techniques used to train models This volume covers recent advances in training models with log linear structures covering the underlying geometry optimization techniques and multiple applications The first chapter shows readers the inner workings of machine learning providing insights into the geometry of log linear and neural net models The other chapters range from introductory material to optimization techniques to involved use cases The book which grew out of a NIPS workshop is suitable for graduate students doing research in machine learning in particular deep

learning variable selection and applications to speech recognition The contributors come from academia and industry allowing readers to view the field from both perspectives Contributors Aleksandr Aravkin Avishy Carmi Guillermo A Cecchi Anna Choromanska Li Deng Xinwei Deng Jean Honorio Tony Jebara Huijing Jiang Dimitri Kanevsky Brian Kingsbury Fabrice Lambert Aur lie C Lozano Daniel Moskovich Yuriy S Polyakov Bhuvana Ramabhadran Irina Rish Dimitris Samaras Tara N Sainath Hagen Soltau Serge F Timashev Ewout van den Berg  *Deep Learning* Manel Martinez-Ramon,Meenu Ajith,Aswathy Rajendra Kurup,2024-07-08 An engaging and accessible introduction to deep learning perfect for students and professionals In Deep Learning A Practical Introduction a team of distinguished researchers delivers a book complete with coverage of the theoretical and practical elements of deep learning The book includes extensive examples end of chapter exercises homework exam material and a GitHub repository containing code and data for all provided examples Combining contemporary deep learning theory with state of the art tools the chapters are structured to maximize accessibility for both beginning and intermediate students The authors have included coverage of TensorFlow Keras and Pytorch Readers will also find Thorough introductions to deep learning and deep learning tools Comprehensive explorations of convolutional neural networks including discussions of their elements operation training and architectures Practical discussions of recurrent neural networks and non supervised approaches to deep learning Fulsome treatments of generative adversarial networks as well as deep Bayesian neural networks Perfect for undergraduate and graduate students studying computer vision computer science artificial intelligence and neural networks Deep Learning A Practical Introduction will also benefit practitioners and researchers in the fields of deep learning and machine learning in general  **Computer Vision – ECCV 2020** Andrea Vedaldi,Horst Bischof,Thomas Brox,Jan-Michael Frahm,2020-11-27 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation  **Optimization for Machine Learning** Suvrit Sra,Sebastian Nowozin,Stephen J. Wright,2012 An up to date account of the interplay between optimization and machine learning accessible to students and researchers in both communities The interplay between optimization and machine learning is one of the most important developments in modern computational science Optimization formulations and methods are proving to be vital in designing algorithms to extract essential knowledge from huge volumes of data Machine learning however is not simply a consumer of optimization technology but a rapidly evolving field that is itself generating new optimization ideas This book captures the

state of the art of the interaction between optimization and machine learning in a way that is accessible to researchers in both fields Optimization approaches have enjoyed prominence in machine learning because of their wide applicability and attractive theoretical properties The increasing complexity size and variety of today s machine learning models call for the reassessment of existing assumptions This book starts the process of reassessment It describes the resurgence in novel contexts of established frameworks such as first order methods stochastic approximations convex relaxations interior point methods and proximal methods It also devotes attention to newer themes such as regularized optimization robust optimization gradient and subgradient methods splitting techniques and second order methods Many of these techniques draw inspiration from other fields including operations research theoretical computer science and subfields of optimization The book will enrich the ongoing cross fertilization between the machine learning community and these other fields and within the broader optimization community **Complex Networks & Their Applications XII** Hocine Cherifi,Luis M. Rocha,Chantal Cherifi,Murat Donduran,2024-02-19 This book highlights cutting edge research in the field of network science offering scientists researchers students and practitioners a unique update on the latest advances in theory and a multitude of applications It presents the peer reviewed proceedings of the XII International Conference on Complex Networks and their Applications COMPLEX NETWORKS 2023 The carefully selected papers cover a wide range of theoretical topics such as network embedding and network geometry community structure network dynamics diffusion epidemics and spreading processes machine learning and graph neural networks as well as all the main network applications including social and political networks networks in finance and economics biological networks and technological networks *Advanced Data Mining and Applications* Quan Z. Sheng,Gill Dobbie,Jing Jiang,Xuyun Zhang,Wei Emma Zhang,Yannis Manolopoulos,Jia Wu,Wathiq Mansoor,Congbo Ma,2024-12-13 This six volume set LNAI 15387 15392 constitutes the refereed proceedings of the 20th International Conference on Advanced Data Mining and Applications ADMA 2024 held in Sydney New South Wales Australia during December 3 5 2024 The 159 full papers presented here were carefully reviewed and selected from 422 submissions These papers have been organized under the following topical sections across the different volumes Part I Applications Data mining Part II Data mining foundations and algorithms Federated learning Knowledge graph Part III Graph mining Spatial data mining Part IV Health informatics Part V Multi modal Natural language processing Part VI Recommendation systems Security and privacy issues Evolution in Computational Intelligence Vikrant Bhateja,Xin-She Yang,Jerry Chun-Wei Lin,Ranjita Das,2023-04-25 The book presents the proceedings of the 10th International Conference on Frontiers of Intelligent Computing Theory and Applications FICTA 2022 held at NIT Mizoram Aizawl Mizoram India during 18 19 June 2022 Researchers scientists engineers and practitioners exchange new ideas and experiences in the domain of intelligent computing theories with prospective applications in various engineering disciplines in the book These proceedings are divided into two volumes It covers broad areas of information and decision sciences with papers exploring both the

theoretical and practical aspects of data intensive computing data mining evolutionary computation knowledge management and networks sensor networks signal processing wireless networks protocols and architectures This volume is a valuable resource for postgraduate students in various engineering disciplines  **Mathematical Engineering of Deep Learning** Benoit Liquet,Sarat Moka,Yoni Nazarathy,2024-10-03 Mathematical Engineering of Deep Learning provides a complete and concise overview of deep learning using the language of mathematics The book provides a self contained background on machine learning and optimization algorithms and progresses through the key ideas of deep learning These ideas and architectures include deep neural networks convolutional models recurrent models long short term memory the attention mechanism transformers variational auto encoders diffusion models generative adversarial networks reinforcement learning and graph neural networks Concepts are presented using simple mathematical equations together with a concise description of relevant tricks of the trade The content is the foundation for state of the art artificial intelligence applications involving images sound large language models and other domains The focus is on the basic mathematical description of algorithms and methods and does not require computer programming The presentation is also agnostic to neuroscientific relationships historical perspectives and theoretical research The benefit of such a concise approach is that a mathematically equipped reader can quickly grasp the essence of deep learning Key Features A perfect summary of deep learning not tied to any computer language or computational framework An ideal handbook of deep learning for readers that feel comfortable with mathematical notation An up to date description of the most influential deep learning ideas that have made an impact on vision sound natural language understanding and scientific domains The exposition is not tied to the historical development of the field or to neuroscience allowing the reader to quickly grasp the essentials Deep learning is easily described through the language of mathematics at a level accessible to many professionals Readers from fields such as engineering statistics physics pure mathematics econometrics operations research quantitative management quantitative biology applied machine learning or applied deep learning will quickly gain insights into the key mathematical engineering components of the field

**Human Language Technologies – The Baltic Perspective** Kaili Müürisep,2018-09-15 Computational linguistics speech processing natural language processing and language technologies in general have all become increasingly important in an era of all pervading technological development This book Human Language Technologies The Baltic Perspective presents the proceedings of the 8th International Baltic Human Language Technologies Conference Baltic HLT 2018 held in Tartu Estonia on 27 29 September 2018 The main aim of Baltic HLT is to provide a forum for sharing new ideas and recent advances in computational linguistics and related disciplines and to promote cooperation between the research communities of the Baltic States and beyond The 24 articles in this volume cover a wide range of subjects including machine translation automatic morphology text classification various language resources and NLP pipelines as well as speech technology the latter being the most popular topic with 8 papers Delivering an overview of the state of the art language technologies from a

Baltic perspective the book will be of interest to all those whose work involves language processing in whatever form

Smart Grid and Innovative Frontiers in Telecommunications Francis C. M. Lau,Edmund Lai,Ivan W. H. Ho,2025-09-30 This book constitutes the refereed proceedings of the 9th EAI International Conference on Smart Grid Inspired Future Technologies SmartGift 2024 which was held in Hong Kong China during December 9 10 2024 The 31 full papers were presented in this volume were carefully reviewed and selected from 78 submissions They focus on Smart Grid and Energy Systems Vehicular Networks and ITS Communication Technologies AI and Information Security and Autonomous and Electric Vehicles **Dual Learning** Tao Qin,2020-11-13 Many AI and machine learning tasks present in dual forms e g English to Chinese translation vs Chinese to English translation speech recognition vs speech synthesis question answering vs question generation and image classification vs image generation Dual learning is a new learning framework that leverages the primal dual structure of AI tasks to obtain effective feedback or regularization signals in order to enhance the learning inference process Since it was first introduced four years ago the concept has attracted considerable attention in multiple fields and been proven effective in numerous applications such as machine translation image to image translation speech synthesis and recognition visual question answering and generation image captioning and generation and code summarization and generation Offering a systematic and comprehensive overview of dual learning this book enables interested researchers both established and newcomers and practitioners to gain a better understanding of the state of the art in the field It also provides suggestions for further reading and tools to help readers advance the area The book is divided into five parts The first part gives a brief introduction to machine learning and deep learning The second part introduces the algorithms based on the dual reconstruction principle using machine translation image translation speech processing and other NLP CV tasks as the demo applications It covers algorithms such as dual semi supervised learning dual unsupervised learning and multi agent dual learning In the context of image translation it introduces algorithms including CycleGAN DualGAN DiscoGAN cdGAN and more recent techniques applications The third part presents various work based on the probability principle including dual supervised learning and dual inference based on the joint probability principle and dual semi supervised learning based on the marginal probability principle The fourth part reviews various theoretical studies on dual learning and discusses its connections to other learning paradigms The fifth part provides a summary and suggests future research directions

Advanced Intelligent Computing Technology and Applications De-Shuang Huang,Prashan Premaratne,Baohua Jin,Boyang Qu,Kang-Hyun Jo,Abir Hussain,2023-07-30 This three volume set of LNCS 14086 LNCS 14087 and LNCS 14088 constitutes in conjunction with the double volume set LNAI 14089 14090 the refereed proceedings of the 19th International Conference on Intelligent Computing ICIC 2023 held in Zhengzhou China in August 2023 The 337 full papers of the three proceedings volumes were carefully reviewed and selected from 828 submissions This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the picture of

contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Advanced Intelligent Computing Technology and Applications Papers that focused on this theme were solicited addressing theories methodologies and applications in science and technology *Geometries of Learning* Pavan Turaga, Yunye Gong,P. Thomas Fletcher,Ajay Divakaran,2025-04-25 Deep neural networks have demonstrated great success in many computer vision applications where intelligent recognition and analysis are performed based on high dimensional visual data However in contrast to the rapid development of advanced architectures and training schemes developments have been limited in the theory of analyzing deep neural networks and deep learning training through the lens of geometries The lack of such analysis prevents further understanding and affects the acceptance of deep neural networks for practical applications For example deep neural networks are often challenged by their vulnerability to adversarial attacks their lack of systematic guarantees on effectiveness and stability and their degraded generalization capability outside the distribution of training data *Artificial Intelligence in Vision-Based Structural Health Monitoring* Khalid M. Mosalam,Yuqing Gao,2024-02-25 This book provides a comprehensive coverage of the state of the art artificial intelligence AI technologies in vision based structural health monitoring SHM In this data explosion epoch AI aided SHM and rapid damage assessment after natural hazards have become of great interest in civil and structural engineering where using machine and deep learning in vision based SHM brings new research direction As researchers begin to apply these concepts to the structural engineering domain especially in SHM several critical scientific questions need to be addressed 1 What can AI solve for the SHM problems 2 What are the relevant AI technologies 3 What is the effectiveness of the AI approaches in vision based SHM 4 How to improve the adaptability of the AI approaches for practical projects 5 How to build a resilient AI aided disaster prevention system making use of the vision based SHM This book introduces and implements the state of the art machine learning and deep learning technologies for vision based SHM applications Specifically corresponding to the above mentioned scientific questions it consists of 1 motivation background progress of AI aided vision based SHM 2 fundamentals of machine learning deep learning approaches 3 basic AI applications in vision based SHM 4 advanced topics approaches and 5 resilient AI aided applications In the introduction a brief coverage about the development progress of AI technologies in the vision based area is presented It gives the readers the motivations and background of the relevant research In Part I basic knowledges of machine and deep learning are introduced which provide the foundation for the readers irrespective of their background In Part II to verify the effectiveness of the AI methods the key procedure of the typical AI aided SHM applications classification localization and segmentation is explored including vision data collection data pre processing transfer learning based training mechanism evaluation and analysis In Part III advanced AI topics e g generative adversarial network semi supervised learning and active learning are discussed They aim to address several critical issues in practical projects e g the

lack of well labeled data and imbalanced labels to improve the adaptability of the AI models In Part IV the new concept of resilient AI is introduced to establish an intelligent disaster prevention system multi modality learning multi task learning and interpretable AI technologies These advances are aimed towards increasing the robustness and explainability of the AI enabled SHM system and ultimately leading to improved resiliency The scope covered in this book is not only beneficial for education purposes but also is essential for modern industrial applications The target audience is broad and includes students engineers and researchers in civil engineering statistics and computer science Unique Book Features Provide a comprehensive review of the rapidly expanding field of vision based structural health monitoring SHM using artificial intelligence approaches Re organize fundamental knowledge specific to the machine and deep learning in vision tasks Include comprehensive details about the procedure of conducting AI approaches for vision based SHM along with examples and exercises Cover a vast array of special topics and advanced AI enabled vision based SHM applications List a few potential extensions for inspiring the readers for future investigation **Large Language Models in Cybersecurity** Andrei Kucharavy,Octave Plancherel,Valentin Mulder,Alain Mermoud,Vincent Lenders,2024-05-31 This open access book provides cybersecurity practitioners with the knowledge needed to understand the risks of the increased availability of powerful large language models LLMs and how they can be mitigated It attempts to outrun the malicious attackers by anticipating what they could do It also alerts LLM developers to understand their work s risks for cybersecurity and provides them with tools to mitigate those risks The book starts in Part I with a general introduction to LLMs and their main application areas Part II collects a description of the most salient threats LLMs represent in cybersecurity be they as tools for cybercriminals or as novel attack surfaces if integrated into existing software Part III focuses on attempting to forecast the exposure and the development of technologies and science underpinning LLMs as well as macro levers available to regulators to further cybersecurity in the age of LLMs Eventually in Part IV mitigation techniques that should allow safe and secure development and deployment of LLMs are presented The book concludes with two final chapters in Part V one speculating what a secure design and integration of LLMs from first principles would look like and the other presenting a summary of the duality of LLMs in cyber security This book represents the second in a series published by the Technology Monitoring TM team of the Cyber Defence Campus The first book entitled Trends in Data Protection and Encryption Technologies appeared in 2023 This book series provides technology and trend anticipation for government industry and academic decision makers as well as technical experts *Green, Pervasive, and Cloud Computing* Zhiwen Yu,Christian Becker,Guoliang Xing,2020-12-04 This book constitutes the refereed proceedings of the 15th International Conference on Green Pervasive and Cloud Computing GPC 2020 held in Xi an China in November 2020 The 30 full papers presented in this book together with 8 short papers were carefully reviewed and selected from 96 submissions They cover the following topics Device free Sensing Machine Learning Recommendation Systems Urban Computing Human Computer Interaction Internet of Things and Edge Computing

Positioning Applications of Computer Vision CrowdSensing and Cloud and Related Technologies     Proceedings of Data Analytics and Management Ashish Khanna,Zdzislaw Polkowski,Oscar Castillo,2023-03-24 This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management ICDAM 2022 held at tThe Karkonosze University of Applied Sciences Poland during June 2022 The book covers the topics in data analytics data management big data computational intelligence and communication networks The book presents innovative work by leading academics researchers and experts from industry which is useful for young researchers and students     **ECAI 2020** Giuseppe De Giacomo,Bistra Dilkina,Michela Milano,Senén Barro,Alberto Bugarín,Jérôme Lang,2020-09-15 This book presents the proceedings of the 24th European Conference on Artificial Intelligence ECAI 2020 held in Santiago de Compostela Spain from 29 August to 8 September 2020 The conference was postponed from June and much of it conducted online due to the COVID 19 restrictions The conference is one of the principal occasions for researchers and practitioners of AI to meet and discuss the latest trends and challenges in all fields of AI and to demonstrate innovative applications and uses of advanced AI technology The book also includes the proceedings of the 10th Conference on Prestigious Applications of Artificial Intelligence PAIS 2020 held at the same time A record number of more than 1 700 submissions was received for ECAI 2020 of which 1 443 were reviewed Of these 361 full papers and 36 highlight papers were accepted an acceptance rate of 25% for full papers and 45% for highlight papers The book is divided into three sections ECAI full papers ECAI highlight papers and PAIS papers The topics of these papers cover all aspects of AI including Agent based and Multi agent Systems Computational Intelligence Constraints and Satisfiability Games and Virtual Environments Heuristic Search Human Aspects in AI Information Retrieval and Filtering Knowledge Representation and Reasoning Machine Learning Multidisciplinary Topics and Applications Natural Language Processing Planning and Scheduling Robotics Safe Explainable and Trustworthy AI Semantic Technologies Uncertainty in AI and Vision The book will be of interest to all those whose work involves the use of AI technology     *Pattern Recognition* Christian Wallraven,Qingshan Liu,Hajime Nagahara,2022-05-10 This two volume set LNCS 13188 13189 constitutes the refereed proceedings of the 6th Asian Conference on Pattern Recognition ACPR 2021 held in Jeju Island South Korea in November 2021 The 85 full papers presented were carefully reviewed and selected from 154 submissions The papers are organized in topics on classification action and video and motion object detection and anomaly segmentation grouping and shape face and body and biometrics adversarial learning and networks computational photography learning theory and optimization applications medical and robotics computer vision and robot vision

**Learning Machine Translation Neural Information Processing Series** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Learning Machine Translation Neural Information Processing Series**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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