



Figure 2. Overview of the DDNN architecture. The vertical lines represent the DNN pipeline, which connects the horizontal bars (NN layers). (a) is the standard DNN (processed entirely in the cloud), (b) introduces end devices and a local exit point that may classify samples before the cloud, (c) extends (b) by adding multiple end devices which are aggregated together for classification, (d) and (e) extend (b) and (c) by adding edge layers between the cloud and end devices, and (f) shows how the edge can also be distributed like the end devices.

# Distributed Deep Neural Networks Over The Cloud The Edge

**Jin-Ying Zhang**



## **Distributed Deep Neural Networks Over The Cloud The Edge:**

ICWE 2021 Workshops Maxim Bakaev, In-Young Ko, Michael Mrissa, Cesare Pautasso, Abhishek Srivastava, 2021-12-07 This book constitutes the thoroughly refereed post workshop proceedings of the 21th International Conference on Web Engineering ICWE 2021 held in Biarritz France in May 2021 The first international workshop on Big data driven Edge Cloud Services BECS 2021 was held to provide a venue in which scholars and practitioners can share their experiences and present on going work on providing value added Web services for users by utilizing big data in edge cloud environments The 5 revised full papers and 1 revised short contribution selected from 11 submissions are presented with 2 invited papers The conference was held virtually due to the COVID 19 pandemic

Data Science Zhiwen Yu, Qilong Han, Hongzhi Wang, Bin Guo, Xiaokang Zhou, Xianhua Song, Zeguang Lu, 2023-09-14 This two volume set CCIS 1879 and 1880 constitutes the refereed proceedings of the 9th International Conference of Pioneering Computer Scientists Engineers and Educators ICPCSEE 2023 held in Harbin China during September 22 24 2023 The 52 full papers and 14 short papers presented in these two volumes were carefully reviewed and selected from 244 submissions The papers are organized in the following topical sections Part I Applications of Data Science Big Data Management and Applications Big Data Mining and Knowledge Management Data Visualization Data driven Security Infrastructure for Data Science Machine Learning for Data Science and Multimedia Data Management and Analysis Part II Data driven Healthcare Data driven Smart City Planet Social Media and Recommendation Systems and Education using big data intelligent computing or data mining etc

Advanced Information Networking and Applications Leonard Barolli, 2024-04-08 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several such applications have been difficult to realize because of many interconnection problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks This book aims to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications

Euro-Par 2023: Parallel Processing Workshops Demetris Zeinalipour, Dora Blanco Heras, George Pallis, Herodotos Herodotou, Demetris Trihinas, Daniel Balouek, Patrick Diehl, Terry Cojean, Karl Furlinger, Maja Hanne Kirkeby, Matteo Nardelli, Pierangelo Di Sanzo, 2024-04-13 This book constitutes revised selected papers from the workshops

held at the 29th International Conference on Parallel and Distributed Computing Euro Par 2023 which took place in Limassol Cyprus during August 28 September 1 2023 The 42 full papers presented in this book together with 11 symposium papers and 14 demo poster papers were carefully reviewed and selected from 55 submissions The papers cover all aspects of parallel and distributed processing ranging from theory to practice from small to the largest parallel and distributed systems and infrastructures from fundamental computational problems to applications from architecture compiler language and interface design and implementation to tools support infrastructures and application performance aspects Part I First International Workshop on Scalable Compute Continuum WSCC 2023 First International Workshop on Tools for Data Locality Power and Performance TDLPP 2023 First International Workshop on Urgent Analytics for Distributed Computing QuickPar 2023 21st International Workshop on Algorithms Models and Tools for Parallel Computing on Heterogeneous Platforms HETEROPAR 2023 Part II Second International Workshop on Resource Awareness of Systems and Society RAW 2023 Third International Workshop on Asynchronous Many Task systems for Exascale AMTE 2023 Third International Workshop on Performance and Energy efficiency in Concurrent and Distributed Systems PECS 2023 First Minisymposium on Applications and Benefits of UPMEM commercial Massively Parallel Processing In Memory Platform ABUMPIMP 2023 First Minsymposium on Adaptive High Performance Input Output Systems ADAPIO 2023

*Artificial Intelligence of Things (AIoT)*  
Kashif Naseer Qureshi, Thomas Newe, 2024-04-05 This book is devoted to the new standards technologies and communication systems for Artificial Intelligence of Things AIoT networks Smart and intelligent communication networks have gained significant attention due to the combination of AI and IoT networks to improve human and machine interfaces and enhance data processing and services AIoT networks involve the collection of data from several devices and sensor nodes in the environment AI can enhance these networks to make them faster greener smarter and safer Computer vision language processing and speech recognition are some examples of AIoT networks Due to a large number of devices in today s world efficient and intelligent data processing is essential for problem solving and decision making AI multiplies the value of these networks and promotes intelligence and learning capabilities especially in homes offices and cities However several challenges have been observed in deploying AIoT networks such as scalability complexity accuracy and robustness In addition these networks are integrated with cloud 5G networks and blockchain methods for service provision Many different solutions have been proposed to address issues related to machine and deep learning methods ontology based approaches genetic algorithms and fuzzy based systems This book aims to contribute to the state of the art and present current standards technologies and approaches for AIoT networks This book focuses on existing solutions in AIoT network technologies applications services standards architectures and security provisions This book also introduces some new architectures and models for AIoT networks

Wireless Artificial Intelligent Computing Systems and Applications  
Zhipeng Cai, Yongxin Zhu, Yonghao Wang, Meikang Qiu, 2025-06-22 The 3 volume set LNCS 15686 15688 constitutes the proceedings of the 19th

International Conference on Wireless Artificial Intelligent Computing Systems and Applications WASA 2025 which took place in Tokyo Japan during June 24 26 2025 The 70 full papers and 34 short papers included in the proceedings were carefully reviewed and selected from 282 submissions The proceedings also contain 10 papers from the AICom2 symposium WASA is a prestigious annual gathering that serves as a global platform for researchers academics and industry professionals to explore and exchange cuttingedge ideas research findings and innovative solutions at the dynamic intersection of wireless technologies and artificial intelligence AI computing systems

**Intelligent Data Engineering and Automated Learning - IDEAL 2025** Luis Martínez,David Camacho,Hujun Yin,Bapi Dutta,Raciel Yera,Rosa M. Rodríguez Domínguez,Antonio Tallón-Ballesteros,2025-11-05 This two volume set LNCS 16238 and LNCS 16239 constitutes the proceedings of the 26th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2025 which was held in Ja n Spain during November 13 15 2025 The 83 full papers and 12 short papers included in the proceedings were carefully reviewed and selected from 146 submissions The core themes of IDEAL 2025 included Trustworthy Artificial Intelligence and Generative AI Aenetic AI LLMs Federated Learning Machine Learning Deep Learning for Real World Applications Data Mining and Pattern Recognition Cybersecurity Information Retrieval and Management and Hybrid Intelligent Systems and Agents

**Advances in Partitioning Techniques** Shankru Guggari,Umadevi V,Vijayakumar Kadappa,2025-06-02 This book discusses various partitioning strategies tailored for traditional machine learning algorithms It examines how data can be divided efficiently to enhance the performance and scalability of classic machine learning models It explores how partitioning methods can be applied to neural networks and other deep learning architectures and describes various ways to accelerate training reduce memory consumption and enhance overall efficiency Graphs are prevalent in various AI domains This book is specifically designed for graph data structures using partitioning techniques and also explores insights into optimizing graph algorithms and analytics With the explosion of data efficient partitioning becomes crucial for processing large datasets This book discusses various partitioning techniques that enable effective management and analysis of big data enhancing speed and resource utilization Edge computing demands resource efficient strategies It examines partitioning methods tailored for edge devices enabling AI capabilities at the edge while addressing resource This book showcases how partitioning techniques have been successfully applied across various AI domains It demonstrates real world scenarios where partitioning optimizes AI algorithms and systems By bridging the gap between theory and practical applications this book intends to equip researchers practitioners and students with invaluable insights into harnessing partitioning for optimizing AI driven systems data processing and problem solving strategies It describes the various advantages and disadvantages of partitioning techniques This book is a vital resource illuminating the path towards unlocking the full potential of partitioning in shaping the future of AI technologies

Towards Design and Development of Secure and Privacy-Preserving Frameworks for IoT-enabled Networks Prabhat Kumar,2022-04-11 Doctoral Thesis Dissertation from the year 2022 in the subject

Computer Sciences Internet of Things IOT grade First course PhD language English abstract With the advancement of low cost and low energy consuming sensors the Internet of Things IoT is building a network of Internet enabled devices The concept of IoT is employed in almost all fields such as healthcare smart cities smart grids energy distribution agriculture and even transportation In a typical IoT enabled network smart sensors are geographically distributed to collect and process data within a smart infrastructure using an open channel the Internet However the use of the Internet brings inherent vulnerabilities related to security e g IoT devices can be compromised using advanced hacking techniques and privacy e g adversary performing inference and data poisoning attacks Intrusion Detection System IDS and Cyber Threat Intelligence CTI are the two most extensively used techniques in IoT enabled networks to safeguard the integrity and availability of sensitive smart systems However the presence of a large volume of data i e dimensionality curse and cloud based centralized deployment mechanism hurts the IDS performance in terms of intrusion detection tasks and increased latency for data processing On the other hand modelling CTI is challenging due to the limited labels of cyber threat sources and analysing these sources to extract relevant threat information manually is a time consuming and error prone procedure that necessitates a large investment of resources This thesis provides substantial contributions to research on the building of a distributed IDS a hybrid feature selection approach an automated CTI Modelling and Identification scheme and a deep privacy encoding module for enhancing security and privacy of IoT enabled networks

*Artificial Intelligence and Machine Learning for EDGE Computing* Rajiv Pandey, Sunil Kumar Khatri, Neeraj Kumar Singh, Parul Verma, 2022-04-26 Artificial Intelligence and Machine Learning for Predictive and Analytical Rendering in Edge Computing focuses on the role of AI and machine learning as it impacts and works alongside Edge Computing Sections cover the growing number of devices and applications in diversified domains of industry including gaming speech recognition medical diagnostics robotics and computer vision and how they are being driven by Big Data Artificial Intelligence Machine Learning and distributed computing may it be Cloud Computing or the evolving Fog and Edge Computing paradigms Challenges covered include remote storage and computing bandwidth overload due to transportation of data from End nodes to Cloud leading in latency issues security issues in transporting sensitive medical and financial information across larger gaps in points of data generation and computing as well as design features of Edge nodes to store and run AI ML algorithms for effective rendering Provides a reference handbook on the evolution of distributed systems including Cloud Fog and Edge Computing Integrates the various Artificial Intelligence and Machine Learning techniques for effective predictions at Edge rather than Cloud or remote Data Centers Provides insight into the features and constraints in Edge Computing and storage including hardware constraints and the technological architectural developments that shall overcome those constraints

*Distributing Deep Neural Network Inference Across Edge-hub-cloud Systems* Robert Steven Viramontes, 2025 Deep neural networks DNNs have been instrumental in the recent rapid growth of artificial intelligence DNNs have grown in compute complexity and

requirements as they have advanced to achieve greater accuracy across a variety of domains As these DNNs have been growing they have also found use in a variety of applications that may be for instance latency or energy constrained This work explores distributed inference across multiple heterogeneous devices as a method to meet optimization objectives That is each layer of the DNN is assigned to be computed on a particular device to e g minimize latency The distributed inference problem is modeled as a flexible and extensible integer linear program ILP We then explore a variety of novel distributed inference approaches by extending this model showing that these approaches improve objectives such as latency or energy compared to prior work We first model a technique to reduce overall latency called weight preloading taking advantage of opportunities to overlap compute and data movement Then based upon our observations during profiling we introduce a novel constraint to ensure correct layer assignments and demonstrate a new technique for reducing profiling effort We also demonstrate that device operating frequency may be used as a knob of control alongside layer assignment to trade off latency and energy during distributed inference Finally the model is extended to minimize carbon footprint over an application duration demonstrating that distributed inference can be utilized to reduce environmental impact This work demonstrates that distributed inference as modeled by our ILP formulations can effectively address a variety of application objectives

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