Fig. 1: FP-DNN Framework

Fp Dnn An Automated Framework For Mapping Deep Neural

Padmalaya Nayak,Souvik Pal,Sheng-Lung Peng

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Deep Learning in Computer Vision Mahmoud Hassaballah,Ali Ismail Awad,2020-03-23 Deep learning algorithms have brought a revolution to the computer vision community by introducing non traditional and efficient solutions to several image related problems that had long remained unsolved or partially addressed This book presents a collection of eleven chapters where each individual chapter explains the deep learning principles of a specific topic introduces reviews of up to date techniques and presents research findings to the computer vision community The book covers a broad scope of topics in deep learning concepts and applications such as accelerating the convolutional neural network inference on field programmable gate arrays fire detection in surveillance applications face recognition action and activity recognition semantic segmentation for autonomous driving aerial imagery registration robot vision tumor detection and skin lesion segmentation as well as skin melanoma classification The content of this book has been organized such that each chapter can be read independently from the others The book is a valuable companion for researchers for postgraduate and possibly senior undergraduate students who are taking an advanced course in related topics and for those who are interested in deep learning with applications in computer vision image processing and pattern recognition **Network and Parallel Computing** Shaoshan Liu,Xiaohui Wei,2022-11-30 This book constitutes the proceedings of the 19th IFIP WG 10 3 International Conference on Network and Parallel Computing NPC 2022 which was held in Jinan China during September 24 25 2022 The 23 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 89 submissions They were organized in topical sections as follows computer architecture cloud computing deep learning emerging applications and storage and IO

Embedded Computer Systems: Architectures, Modeling, and Simulation Luigi Carro,Francesco Regazzoni,Christian Pilato,2025-01-27 The two volume set LNCS 15226 and 15227 constitutes the refereed proceedings of the 24th International Conference on Embedded Computer Systems Architectures Modeling and Simulation SAMOS 2024 held in Samos Greece during June 29 July 4 2024 The 24 full papers 10 invited full papers and 4 poster papers included in the proceedings were carefully reviewed and selected from 57 submissions They deal with embedded computer systems focusing on their applications architectures and underlying processors as well as methods created to automate their design *Data Orchestration in Deep Learning Accelerators* Tushar Krishna,Hyoukjun Kwon,Angshuman Parashar,Michael Pellauer,Ananda Samajdar,2022-05-31 This Synthesis Lecture focuses on techniques for efficient data orchestration within DNN accelerators The End of Moore s Law coupled with the increasing growth in deep learning and other AI applications has led to the emergence of custom Deep Neural Network DNN accelerators for energy efficient inference on edge devices Modern DNNs have millions of hyper parameters and involve billions of computations this necessitates extensive data movement from memory to on chip processing engines It is well known that the cost of data movement today surpasses the cost of the actual computation therefore DNN accelerators require careful orchestration of data across on chip compute network and memory

elements to minimize the number of accesses to external DRAM The book covers DNN dataflows data reuse buffer hierarchies networks on chip and automated design space exploration It concludes with data orchestration challenges with compressed and sparse DNNs and future trends The target audience is students engineers and researchers interested in designing high performance and low energy accelerators for DNN inference **Applied Reconfigurable Computing. Architectures, Tools, and Applications** Steven Derrien,Frank Hannig,Pedro C. Diniz,Daniel Chillet,2021-06-23 This book constitutes the proceedings of the 17th International Symposium on Applied Reconfigurable Computing ARC 2021 held as a virtual event in June 2021 The 14 full papers and 11 short presentations presented in this volume were carefully reviewed and selected from 40 submissions The papers cover a broad spectrum of applications of reconfigurable computing from driving assistance data and graph processing acceleration computer security to the societal relevant topic of supporting early diagnosis of Covid infectious conditions **Robotic Computing on FPGAs** Shaoshan Liu,Zishen Wan,Bo Yu,Yu Wang,2022-05-31 This book provides a thorough overview of the state of the art field programmable gate array FPGA based robotic computing accelerator designs and summarizes their adopted optimized techniques This book consists of ten chapters delving into the details of how FPGAs have been utilized in robotic perception localization planning and multi robot collaboration tasks In addition to individual robotic tasks this book provides detailed descriptions of how FPGAs have been used in robotic products including commercial autonomous vehicles and space exploration robots **Internet of Things** Mohammad Ayoub Khan,2022-06-07 The book deals with the conceptual and practical knowledge of the latest tools and methodologies of hardware development for Internet of Things IoT and variety of real world challenges The topics cover the state of the art and future perspectives of IoT technologies where industry experts researchers and academics had shared ideas and experiences surrounding frontier technologies breakthrough and innovative solutions and applications Several aspects of various hardware technologies methodologies and communication protocol such as formal design flow for IoT hardware design approaches for IoT hardware IoT solution reference architectures and Instances simulation modelling and programming framework hardware basics of sensors for IoT configurable processor and technology for IoT and real life examples and studies are critically examined in this book It also identifies key technological facet that supports the relevance of hardware perspective of IoT and discusses the benefits and challenges to dominate the next decades The book serves as an excellent reference for senior undergraduates and graduates in electrical and computer engineering research scholars mobile and wireless communications engineers IT engineers and electronics engineers who need to understand IoT at an in depth level to build and manage IoT solutions Innovations in Smart Cities Applications Volume 5 Mohamed Ben Ahmed,Anouar Abdelhakim Boudhir,İsmail Rakıp Karaş,Vipul Jain,Sehl Mellouli,2022-03-03 This book sets the innovative research contributions works and solutions for almost all the intelligent and smart applications in the smart cities The smart city concept is a relevant topic for industrials governments and citizens Due to this the smart city considered as a multi

domain context attracts tremendously academics researchers and practitioners who provide efforts in theoretical proofs approaches architectures and in applied researches The importance of smart cities comes essentially from the significant growth of populations in the near future which conducts to a real need of smart applications that can support this evolution in the future cities The main scope of this book covers new and original ideas for the next generations of cities using the new technologies The book involves the application of the data science and AI IoT technologies and architectures smart earth and water management smart education and E learning systems smart modeling systems smart mobility and renewable energy It also reports recent research works on big data technologies image processing and recognition systems and smart security and privacy   Applied Reconfigurable Computing. Architectures, Tools, and Applications Roberto Giorgi,Mirjana Stojilović,Dirk Stroobandt,Piedad Brox Jiménez,Ángel Barriga Barros,2025-04-03 This book constitutes the proceedings of the 21st International Symposium on Applied Reconfigurable Computing Architectures Tools and Applications ARC 2025 held in Seville Spain during April 9 11 2025 The 12 full papers presented in this book together with 1 short paper from the technical program were carefully reviewed and selected from 40 submissions ARC 2025 covers a wide range of topics including hardware acceleration security and fault tolerance energy efficient architectures and emerging applications in artificial intelligence and high performance computing The symposium fostered collaboration and pushed the boundaries of state of the art research   **High Performance Computing** Heike Jagode,Hartwig Anzt,Hatem Ltaief,Piotr Luszczek,2021-11-12 This book constitutes the refereed post conference proceedings of 9 workshops held at the 35th International ISC High Performance 2021 Conference in Frankfurt Germany in June July 2021 Second International Workshop on the Application of Machine Learning Techniques to Computational Fluid Dynamics and Solid Mechanics Simulations and Analysis HPC IODC HPC I O in the Data Center Workshop Compiler assisted Correctness Checking and Performance Optimization for HPC Machine Learning on HPC Systems 4th International Workshop on Interoperability of Supercomputing and Cloud Technologies 2nd International Workshop on Monitoring and Operational Data Analytics 16th Workshop on Virtualization in High Performance Cloud Computing Deep Learning on Supercomputers 5th International Workshop on In Situ Visualization The 35 papers included in this volume were carefully reviewed and selected They cover all aspects of research development and application of large scale high performance experimental and commercial systems Topics include high performance computing HPC computer architecture and hardware programming models system software performance analysis and modeling compiler analysis and optimization techniques software sustainability scientific applications deep learning Chapter Machine Learning Based Control of Perturbed and Heated Channel Flows is available open access under a Creative Commons Attribution 4 0 International License via link springer com   **Network and Parallel Computing** Xu Chen,Geyong Min,Deke Guo,Xia Xie,Lingjun Pu,2025-03-28 This two part LNCS 15227 and 15528 volumes constitutes the proceedings of the 20th IFIP WG 10 3 International Conference on Network and Parallel Computing NPC 2024 which was

held in Haikou China during December 7 8 2024 The 76 full papers presented in this volume were carefully reviewed and selected from 200 submissions They are organized according to the following topics Part I High performance and Parallel Computing Novel Memory and Storage Systems and Emerging Architectures and Systems Part II Edge Computing and Intelligence Federated Learning Algorithms and Systems Emerging Networks and In network Computing and Processing

Applied Reconfigurable Computing. Architectures, Tools, and Applications Fernando Rincón,Jesús Barba,Hayden K. H. So,Pedro Diniz,Julián Caba,2020-03-25 This book constitutes the proceedings of the 16th International Symposium on Applied Reconfigurable Computing ARC 2020 held in Toledo Spain in April 2020 The 18 full papers and 11 poster presentations presented in this volume were carefully reviewed and selected from 40 submissions The papers are organized in the following topical sections design methods design space exploration high level synthesis architectures applications

Handbook of Neuroengineering Nitish V. Thakor,2023-02-02 This Handbook serves as an authoritative reference book in the field of Neuroengineering Neuroengineering is a very exciting field that is rapidly getting established as core subject matter for research and education The Neuroengineering field has also produced an impressive array of industry products and clinical applications It also serves as a reference book for graduate students research scholars and teachers Selected sections or a compendium of chapters may be used as reference book for a one or two semester graduate course in Biomedical Engineering Some academicians will construct a textbook out of selected sections or chapters The Handbook is also meant as a state of the art volume for researchers Due to its comprehensive coverage researchers in one field covered by a certain section of the Handbook would find other sections valuable sources of cross reference for information and fertilization of interdisciplinary ideas Industry researchers as well as clinicians using neurotechnologies will find the Handbook a single source for foundation and state of the art applications in the field of Neuroengineering Regulatory agencies entrepreneurs investors and legal experts can use the Handbook as a reference for their professional work as well

Proceedings of Ninth International Congress on Information and Communication Technology Xin-She Yang,Simon Sherratt,Nilanjan Dey,Amit Joshi,2024-07-29 This book gathers selected high quality research papers presented at the Ninth International Congress on Information and Communication Technology held in London on February 19 22 2024 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers an asset for young researchers involved in advanced studies The work is presented in ten volumes   **Towards Ubiquitous Low-power Image Processing Platforms** Magnus Jahre,Diana Göhringer,Philippe Millet,2020-12-15 This book summarizes the key scientific outcomes of the Horizon 2020 research project TULIPP Towards Ubiquitous Low power Image Processing Platforms The main focus lies on the development of high performance energy efficient embedded systems for the growing range of increasingly complex image processing

applications The holistic TULIPP approach is described in the book which addresses hardware platforms programming tools and embedded operating systems Several of the results are available as open source hardware software for the community The results are evaluated with several use cases taken from real world applications in key domains such as Unmanned Aerial Vehicles UAVs robotics space and medicine Discusses the development of high performance energy efficient embedded systems for the growing range of increasingly complex image processing applications Covers the hardware architecture of embedded image processing systems novel methods tools and libraries for programming those systems as well as embedded operating systems to manage those systems Demonstrates results with several challenging applications such as medical systems robotics drones and automotive *Advances and Trends in Artificial Intelligence. Theory and Applications* Hamido Fujita,Richard Cimler,Andres Hernandez-Matamoros,Moonis Ali,2024-07-09 This book constitutes the refereed proceedings of the 37th International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems on Advances and Trends in Artificial Intelligence IEA AIE 2024 held in Hradec Kralove Czech Republic in July 10 12 2024 The 38 full papers and 3 short papers presented were carefully reviewed and selected from 79 submissions The papers focus on the following topics Computer vision Cyber security Data mining E applications Machine learning Neural networks Optimization and Various applications **Context-Aware Systems and Applications** Phan Cong Vinh,Abdur Rakib,2022-01-06 This book constitutes the refereed post conference proceedings of the International Conference on Context Aware Systems and Applications held in October 2021 Due to COVID 19 pandemic the conference was held virtually The 25 revised full papers presented were carefully selected from 52 submissions The papers cover a wide spectrum of modern approaches and techniques for smart computing systems and their applications <ins>IoT and Analytics for Sensor Networks</ins> Padmalaya Nayak,Souvik Pal,Sheng-Lung Peng,2021-09-11 This book includes high quality research papers presented at the 1st International Conference on Wireless Sensor Networks Ubiquitous Computing and Applications ICWSNUCA 2021 which is held at Gokaraju Rangaraju Institute of Engineering and Technology Hyderabad India during 26 27 February 2021 This volume focuses on the applications use cases architectures deployments and recent advances of wireless sensor networks as well as ubiquious computing Different research topics are illustrated in this book like wireless sensor networks for the Internet of Things IoT applications for eHealth smart cities architectures for WSNs and IoT WSNs hardware and new devices low power wireless technologies wireless ad hoc sensor networks routing and data transfer in WSNs multicast communication in WSNs security management in WSNs and in IoT systems and power consumption optimization in WSNs *Emerging Computing: From Devices to Systems* Mohamed M. Sabry Aly,Anupam Chattopadhyay,2022-07-11 The book covers a range of topics dealing with emerging computing technologies which are being developed in response to challenges faced due to scaling CMOS technologies It provides a sneak peek into the capabilities unleashed by these technologies across the complete system stack with contributions by experts discussing device technology circuit architecture and design

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