

# Free ebook 4 2 neuromorphic architectures for spiking deep neural (Download Only)

Time-Space, Spiking Neural Networks and Brain-Inspired Artificial Intelligence Spiking Neural Network Learning, Benchmarking, Programming and Executing Understanding and Bridging the Gap between Neuromorphic Computing and Machine Learning Advances in Neural Networks - ISNN 2019 Spiking Neural Networks Computer Vision - ECCV 2022 Neuromorphic Engineering Editors' Pick 2021 Cognitive NeuroIntelligence Computational Techniques in Neuroscience Neural Information Processing Emerging Technologies and Systems for Biologically Plausible Implementations of Neural Functions Neural Information Processing Advances in Neural Computation, Machine Learning, and Cognitive Research III Neural Information Processing Artificial Neural Networks and Machine Learning - ICANN 2021 Artificial Neural Networks and Machine Learning - ICANN 2018 Advances in Neural Networks - ISNN 2018 Neuro-inspired Computing for Next-gen AI: Computing Model, Architectures and Learning Algorithms Pattern Recognition and Computer Vision Computer Vision Neuromorphic Computing Principles and Organization Frontiers in Computational Neuroscience - Editors' Pick 2021 Engineering Applications of Neural Networks International Conference on Neural Computing for Advanced Applications Artificial Neural Networks as Models of Neural Information Processing Neural Information Processing Artificial Neural Networks and Machine Learning - ICANN 2019: Theoretical Neural Computation Memristive Devices for Brain-Inspired Computing Brain-Inspired Computing: From Neuroscience to Neuromorphic Electronics driving new forms of Artificial Intelligence Advances in Visual Computing Image and Video Technology Selected Topics in Intelligent Chips with Emerging Devices, Circuits and Systems Challenges and Applications for Implementing Machine Learning in Computer Vision Brain-inspired Cognition and Understanding for Next-generation AI: Computational Models, Architectures and Learning Algorithms Enterprise Digital Transformation Advances in Neural Networks - ISNN 2017 Robust Artificial Intelligence for Neurorobotics Human Language Handbook of Neuroengineering Neural Information Processing

### **Time-Space, Spiking Neural Networks and Brain-Inspired Artificial Intelligence**

2018-08-29 spiking neural networks snn are biologically inspired computational models that represent and process information internally as trains of spikes this monograph book presents the classical theory and applications of snn including original author s contribution to the area the book introduces for the first time not only deep learning and deep knowledge representation in the human brain and in brain inspired snn but takes that further to develop new types of ai systems called in the book brain inspired ai bi ai bi ai systems are illustrated on cognitive brain data including eeg fmri and dti audio visual data brain computer interfaces personalized modelling in bio neuroinformatics multisensory streaming data modelling in finance environment and ecology data compression neuromorphic hardware implementation future directions such as the integration of multiple modalities such as quantum molecular and brain information processing is presented in the last chapter the book is a research book for postgraduate students researchers and practitioners across wider areas including computer and information sciences engineering applied mathematics bio and neurosciences

### **Spiking Neural Network Learning, Benchmarking, Programming and Executing**

2020-06-05 this two volume set Incs 11554 and 11555 constitutes the refereed proceedings of the 16th international symposium on neural networks isnn 2019 held in moscow russia in july 2019 the 111 papers presented in the two volumes were carefully reviewed and selected from numerous submissions the papers were organized in topical sections named learning system graph model and adversarial learning time series analysis dynamic prediction and uncertain estimation model optimization bayesian learning and clustering game theory stability analysis and control method signal processing industrial application and data generation image recognition scene understanding and video analysis bio signal biomedical engineering and hardware

### **Understanding and Bridging the Gap between Neuromorphic Computing and Machine Learning**

2021-05-05 the 39 volume set comprising the Incs books 13661 until 13699 constitutes the refereed proceedings of the 17th european conference on computer vision eccv 2022 held in tel aviv israel during october 23 27 2022 the 1645 papers presented in these proceedings were carefully reviewed and selected from a total of 5804 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

### **Advances in Neural Networks - ISSN 2019**

2019-06-26 the text discusses the techniques of deep learning and machine learning in the field of neuroscience engineering approaches to study the brain structure and dynamics convolutional networks for fast energy efficient neuromorphic computing and reinforcement learning in feedback control it showcases case studies in neural data analysis features focuses on neuron modeling development and direction of neural circuits to explain perception behavior and biologically inspired intelligent agents for decision making showcases important aspects such as human behavior prediction using smart technologies and understanding the modeling of nervous systems discusses nature inspired algorithms such as swarm intelligence ant colony optimization and multi agent systems presents information theoretic control theoretic and decision theoretic approaches in neuroscience

includes case studies in functional magnetic resonance imaging fmri and neural data analysis this reference text addresses different applications of computational neuro sciences using artificial intelligence deep learning and other machine learning techniques to fine tune the models thereby solving the real life problems prominently it will further discuss important topics such as neural rehabilitation brain computer interfacing neural control neural system analysis and neurobiologically inspired self monitoring systems it will serve as an ideal reference text for graduate students and academic researchers in the fields of electrical engineering electronics and communication engineering computer engineering information technology and biomedical engineering

**Spiking Neural Networks** 2003 the six volume set Incs 14447 until 14452 constitutes the refereed proceedings of the 30th international conference on neural information processing iconip 2023 held in changsha china in november 2023 the 652 papers presented in the proceedings set were carefully reviewed and selected from 1274 submissions they focus on theory and algorithms cognitive neurosciences human centred computing applications in neuroscience neural networks deep learning and related fields

Computer Vision - ECCV 2022 2022-11-02 the three volume set of Incs 11953 11954 and 11955 constitutes the proceedings of the 26th international conference on neural information processing iconip 2019 held in sydney australia in december 2019 the 173 full papers presented were carefully reviewed and selected from 645 submissions the papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains the third volume Incs 11955 is organized in topical sections on semantic and graph based approaches spiking neuron and related models text computing using neural techniques time series and related models and unsupervised neural models

Neuromorphic Engineering Editors' Pick 2021 2021-08-10 this book describes new theories and applications of artificial neural networks with a special focus on answering questions in neuroscience biology and biophysics and cognitive research it covers a wide range of methods and technologies including deep neural networks large scale neural models brain computer interface signal processing methods as well as models of perception studies on emotion recognition self organization and many more the book includes both selected and invited papers presented at the xxi international conference on neuroinformatics held on october 7 11 2019 in dolgoprudny a town in moscow region russia

**Cognitive NeuroIntelligence** 2021-09-23 the seven volume set of Incs 11301 11307 constitutes the proceedings of the 25th international conference on neural information processing iconip 2018 held in siem reap cambodia in december 2018 the 401 full papers presented were carefully reviewed and selected from 575 submissions the papers address the emerging topics of theoretical research empirical studies and applications of neural information processing techniques across different domains the first volume Incs 11301 is organized in topical sections on deep neural networks convolutional neural networks recurrent neural networks and spiking neural networks

**Computational Techniques in Neuroscience** 2023-11-14 the proceedings set Incs 12891 Incs 12892 Incs 12893 Incs 12894 and Incs 12895 constitute the proceedings of the 30th international conference on artificial neural networks icann 2021 held in bratislava slovakia in september 2021 the total of 265 full papers presented in these proceedings was carefully reviewed and selected from 496 submissions and organized in 5 volumes in this volume the

papers focus on topics such as representation learning reservoir computing semi and unsupervised learning spiking neural networks text understanding transfers and meta learning and video processing the conference was held online 2021 due to the covid 19 pandemic

**Neural Information Processing** 2023-11-15 this three volume set Incs 11139 11141 constitutes the refereed proceedings of the 27th international conference on artificial neural networks icann 2018 held in rhodes greece in october 2018 the papers presented in these volumes was carefully reviewed and selected from total of 360 submissions they are related to the following thematic topics ai and bioinformatics bayesian and echo state networks brain inspired computing chaotic complex models clustering mining exploratory analysis coding architectures complex firing patterns convolutional neural networks deep learning dl dl in real time systems dl and big data analytics dl and big data dl and forensics dl and cybersecurity dl and social networks evolving systems optimization extreme learning machines from neurons to neuromorphism from sensation to perception from single neurons to networks fuzzy modeling hierarchical ann inference and recognition information and optimization interacting with the brain machine learning ml ml for bio medical systems ml and video image processing ml and forensics ml and cybersecurity ml and social media ml in engineering movement and motion detection multilayer perceptrons and kernel networks natural language object and face recognition recurrent neural networks and reservoir computing reinforcement learning reservoir computing self organizing maps spiking dynamics spiking ann support vector machines swarm intelligence and decision making text mining theoretical neural computation time series and forecasting training and learning

Emerging Technologies and Systems for Biologically Plausible Implementations of Neural Functions 2022-04-26 this book constitutes the refereed proceedings of the 15th international symposium on neural networks isnn 2018 held in minsk belarus in june 2018 the 98 revised regular papers presented in this volume were carefully reviewed and selected from 214 submissions the papers cover many topics of neural network related research including intelligent control neurodynamic analysis bio signal bioinformatics and biomedical engineering clustering classification forecasting models algorithms cognitive computation machine learning and optimization

Neural Information Processing 2019-12-10 the 13 volume set Incs 14425 14437 constitutes the refereed proceedings of the 6th chinese conference on pattern recognition and computer vision prcv 2023 held in xiamen china during october 13 15 2023 the 532 full papers presented in these volumes were selected from 1420 submissions the papers have been organized in the following topical sections action recognition multi modal information processing 3d vision and reconstruction character recognition fundamental theory of computer vision machine learning vision problems in robotics autonomous driving pattern classification and cluster analysis performance evaluation and benchmarks remote sensing image interpretation biometric recognition face recognition and pose recognition structural pattern recognition computational photography sensing and display technology video analysis and understanding vision applications and systems document analysis and recognition feature extraction and feature selection multimedia analysis and reasoning optimization and learning methods neural network and deep learning low level vision and image processing object detection tracking and identification medical image processing and analysis

**Advances in Neural Computation, Machine Learning, and Cognitive Research III**

2019-09-03 computer vision has made enormous progress in recent years and its applications are multifaceted and growing quickly while many challenges still remain this book brings together a range of leading researchers to examine a wide variety of research directions challenges and prospects for computer vision and its applications this book highlights various core challenges as well as solutions by leading researchers in the field it covers such important topics as data driven ai biometrics digital forensics healthcare robotics entertainment and xr autonomous driving sports analytics and neuromorphic computing covering both academic and industry r d perspectives providing a mix of breadth and depth this book will have an impact across the fields of computer vision imaging and ai computer vision challenges trends and opportunities covers timely and important aspects of computer vision and its applications highlighting the challenges ahead and providing a range of perspectives from top researchers around the world a substantial compilation of ideas and state of the art solutions it will be of great benefit to students researchers and industry practitioners

Neural Information Processing 2018-12-03 this book focuses on neuromorphic computing principles and organization and how to build fault tolerant scalable hardware for large and medium scale spiking neural networks with learning capabilities in addition the book describes in a comprehensive way the organization and how to design a spike based neuromorphic system to perform network of spiking neurons communication computing and adaptive learning for emerging ai applications the book begins with an overview of neuromorphic computing systems and explores the fundamental concepts of artificial neural networks next we discuss artificial neurons and how they have evolved in their representation of biological neuronal dynamics afterward we discuss implementing these neural networks in neuron models storage technologies inter neuron communication networks learning and various design approaches then comes the fundamental design principle to build an efficient neuromorphic system in hardware the challenges that need to be solved toward building a spiking neural network architecture with many synapses are discussed learning in neuromorphic computing systems and the major emerging memory technologies that promise neuromorphic computing are then given a particular chapter of this book is dedicated to the circuits and architectures used for communication in neuromorphic systems in particular the network on chip fabric is introduced for receiving and transmitting spikes following the address event representation aer protocol and the memory accessing method in addition the interconnect design principle is covered to help understand the overall concept of on chip and off chip communication advanced on chip interconnect technologies including si photonic three dimensional interconnects and fault tolerant routing algorithms are also given the book also covers the main threats of reliability and discusses several recovery methods for multicore neuromorphic systems this is important for reliable processing in several embedded neuromorphic applications a reconfigurable design approach that supports multiple target applications via dynamic reconfigurability network topology independence and network expandability is also described in the subsequent chapters the book ends with a case study about a real hardware software design of a reliable three dimensional digital neuromorphic processor geared explicitly toward the 3d ics biological brain s three dimensional structure the platform enables high integration density and slight spike delay of spiking networks and features a scalable design we present methods for fault detection and recovery in a neuromorphic system as well neuromorphic computing principles and organization is an excellent resource for researchers scientists graduate students and hardware software

engineers dealing with the ever increasing demands on fault tolerance scalability and low power consumption it is also an excellent resource for teaching advanced undergraduate and graduate students about the fundamentals concepts organization and actual hardware software design of reliable neuromorphic systems with learning and fault tolerance capabilities

Artificial Neural Networks and Machine Learning - ICANN 2021 2021-09-10 this book constitutes the refereed proceedings of the 19th international conference on engineering applications of neural networks eann 2018 held in bristol uk in september 2018 the 16 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 39 submissions the papers are organized in topical sections on activity recognition deep learning extreme learning machine machine learning applications predictive models fuzzy and recommender systems recurrent neural networks spiking neural networks

*Artificial Neural Networks and Machine Learning - ICANN 2018* 2018-09-26 the two volume set ccis 1869 and 1870 constitutes the refereed proceedings of the 4th international conference on neural computing for advanced applications ncaa 2023 held in hefei china in july 2023 the 83 full papers and 1 short paper presented in these proceedings were carefully reviewed and selected from 211 submissions the papers have been organized in the following topical sections neural network nn theory nn based control systems neuro system integration and engineering applications machine learning and deep learning for data mining and data driven applications computational intelligence nature inspired optimizers and their engineering applications deep learning driven pattern recognition computer vision and its industrial applications natural language processing knowledge graphs recommender systems and their applications neural computing based fault diagnosis and forecasting prognostic management and cyber physical system security sequence learning for spreading dynamics forecasting and intelligent techniques against epidemic spreading 2 applications of data mining machine learning and neural computing in language studies computational intelligent fault diagnosis and fault tolerant control and their engineering applications and other neural computing related topics

**Advances in Neural Networks - ISSN 2018** 2018-05-25 modern neural networks gave rise to major breakthroughs in several research areas in neuroscience we are witnessing a reappraisal of neural network theory and its relevance for understanding information processing in biological systems the research presented in this book provides various perspectives on the use of artificial neural networks as models of neural information processing we consider the biological plausibility of neural networks performance improvements spiking neural networks and the use of neural networks for understanding brain function

Neuro-inspired Computing for Next-gen AI: Computing Model, Architectures and Learning Algorithms 2022-08-29 the six volume set lncs 10634 lncs 10635 lncs 10636 lncs 10637 lncs 10638 and lncs 10639 constitutes the proceedings of the 24rd international conference on neural information processing iconip 2017 held in guangzhou china in november 2017 the 563 full papers presented were carefully reviewed and selected from 856 submissions the 6 volumes are organized in topical sections on machine learning reinforcement learning big data analysis deep learning brain computer interface computational finance computer vision neurodynamics sensory perception and decision making computational intelligence neural data analysis biomedical engineering emotion and bayesian networks data mining time series analysis social networks bioinformatics information security and social cognition robotics and control pattern recognition neuromorphic hardware and speech processing

**Pattern Recognition and Computer Vision** 2023-12-23 the proceedings set Incs 11727 11728 11729 11730 and 11731 constitute the proceedings of the 28th international conference on artificial neural networks icann 2019 held in munich germany in september 2019 the total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions they were organized in 5 volumes focusing on theoretical neural computation deep learning image processing text and time series and workshop and special sessions

Computer Vision 2024-07-30 memristive devices for brain inspired computing from materials devices and circuits to applications computational memory deep learning and spiking neural networks reviews the latest in material and devices engineering for optimizing memristive devices beyond storage applications and toward brain inspired computing the book provides readers with an understanding of four key concepts including materials and device aspects with a view of current materials systems and their remaining barriers algorithmic aspects comprising basic concepts of neuroscience as well as various computing concepts the circuits and architectures implementing those algorithms based on memristive technologies and target applications including brain inspired computing computational memory and deep learning this comprehensive book is suitable for an interdisciplinary audience including materials scientists physicists electrical engineers and computer scientists provides readers an overview of four key concepts in this emerging research topic including materials and device aspects algorithmic aspects circuits and architectures and target applications covers a broad range of applications including brain inspired computing computational memory deep learning and spiking neural networks includes perspectives from a wide range of disciplines including materials science electrical engineering and computing providing a unique interdisciplinary look at the field

**Neuromorphic Computing Principles and Organization** 2022-05-31 this two volume set of Incs 13598 and 13599 constitutes the refereed proceedings of the 17th international symposium on visual computing isvc 2022 which was held in october 2022 the 61 papers presented in these volumes were carefully reviewed and selected from 110 submissions they are organized in the following topical sections part i deep learning i visualization object detection and recognition deep learning ii video analysis and event recognition computer graphics st biomedical imaging techniques for cancer detection diagnosis and management part ii st neuro inspired artificial intelligence applications segmentation and tracking virtual reality poster

**Frontiers in Computational Neuroscience - Editors' Pick 2021** 2022-01-21 this book constitutes the thoroughly refereed post conference proceedings of five international workshops held in the framework of the 8th pacific rim symposium on image and video technology psivt 2017 in wuhan china in november 2017 workshop on human behavior analysis workshop on educational cloud and image video enriched cloud services ecivecs workshop vision meets graphics vg workshop on active electro optical sensors for aerial and space imaging eo4as and workshop on computer vision and modern vehicles cvmv the 34 revised full papers and 2 posters presented were carefully selected from 103 submissions the papers cover the full range of state of the art research in image and video technology with topics ranging from well established areas to novel current trends

*Engineering Applications of Neural Networks* 2018-08-20 memristors have provided a new direction of thinking for circuit designers to overcome the limits of scalability and for thinking of building systems beyond moore's law over the last decade there has been a significant number

of innovations in using memristors for building neural networks through analog computing in memory computing and stochastic computing approaches the emergence of intelligent integrated circuits is inevitable for the future of integrated circuit applications this book provides a collection of talks conducted as part of the IEEE Seasonal School on Circuits and Systems having a focus on intelligence in chip tomorrow of integrated circuits technical topics discussed in the book include edge of chaos theory explains complex phenomena in memristor circuits analog memristive computing designing energy efficient neo cortex system with on device learning integrated sensors challenges and recent advances in NVM based neuromorphic computing ICs in memory computing for deep learning deep learning with spiking neural networks computational intelligence for designing integrated circuits and systems neurochip design modeling and applications

International Conference on Neural Computing for Advanced Applications 2023-08-30 machine learning allows for non conventional and productive answers for issues within various fields including problems related to visually perceptive computers applying these strategies and algorithms to the area of computer vision allows for higher achievement in tasks such as spatial recognition big data collection and image processing there is a need for research that seeks to understand the development and efficiency of current methods that enable machines to see challenges and applications for implementing machine learning in computer vision is a collection of innovative research that combines theory and practice on adopting the latest deep learning advancements for machines capable of visual processing highlighting a wide range of topics such as video segmentation object recognition and 3d modelling this publication is ideally designed for computer scientists medical professionals computer engineers information technology practitioners industry experts scholars researchers and students seeking current research on the utilization of evolving computer vision techniques

**Artificial Neural Networks as Models of Neural Information Processing 2018-02-01** digital transformation DT has become a buzzword every industry segment across the globe is consciously jumping toward digital innovation and disruption to get ahead of their competitors in other words every aspect of running a business is being digitally empowered to reap all the benefits of the digital paradigm all kinds of digitally enabled businesses across the globe are intrinsically capable of achieving bigger and better things for their constituents their consumers clients and customers will realize immense benefits with real digital transformation initiatives and implementations the much awaited business transformation can be easily and elegantly accomplished with a workable and winnable digital transformation strategy plan and execution there are several enablers and accelerators for realizing the much discussed digital transformation there are a lot of digitization and digitalization technologies available to streamline and speed up the process of the required transformation industrial internet of things IIoT technologies in close association with decisive advancements in the artificial intelligence AI space can bring forth the desired transitions the other prominent and dominant technologies toward forming digital organizations include cloud IT edge fog computing real time data analytics platforms blockchain technology digital twin paradigm virtual and augmented reality VR AR techniques enterprise mobility and 5G communication these technological innovations are intrinsically competent and versatile enough to fulfill the varying requirements for establishing and sustaining digital enterprises enterprise digital transformation technology tools and use cases features chapters on the evolving aspects of digital transformation and intelligence it



covers the unique competencies of digitally transformed enterprises iiot use cases and applications it explains promising technological solutions widely associated with digital innovation and disruption the book focuses on setting up and sustaining smart factories that are fulfilling the industry 4 0 vision that is realized through the iiot and allied technologies

Neural Information Processing 2017-11-07 this book constitutes the refereed proceedings of the 14th international symposium on neural networks isnn 2017 held in sapporo hakodate and muroran hokkaido japan in june 2017 the 135 revised full papers presented in this two volume set were carefully reviewed and selected from 259 submissions the papers cover topics like perception emotion and development action and motor control attractor and associative memory neurodynamics complex systems and chaos

**Artificial Neural Networks and Machine Learning - ICANN 2019: Theoretical Neural Computation** 2019-09-09 a unique overview of the human language faculty at all levels of organization language is not only one of the most complex cognitive functions that we command it is also the aspect of the mind that makes us uniquely human research suggests that the human brain exhibits a language readiness not found in the brains of other species this volume brings together contributions from a range of fields to examine humans language capacity from multiple perspectives analyzing it at genetic neurobiological psychological and linguistic levels in recent decades advances in computational modeling neuroimaging and genetic sequencing have made possible new approaches to the study of language and the contributors draw on these developments the book examines cognitive architectures investigating the functional organization of the major language skills learning and development trajectories summarizing the current understanding of the steps and neurocognitive mechanisms in language processing evolutionary and other preconditions for communication by means of natural language computational tools for modeling language cognitive neuroscientific methods that allow observations of the human brain in action including fmri eeg meg and others the neural infrastructure of language capacity the genome s role in building and maintaining the language ready brain and insights from studying such language relevant behaviors in nonhuman animals as birdsong and primate vocalization section editors christian f beckmann carel ten cate simon e fisher peter hagoort evan kidd stephen c levinson james m mcqueen antje s meyer david poeppel caroline f rowland constance scharff ivan toni willem Zuidema

**Memristive Devices for Brain-Inspired Computing** 2020-06-12 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

*Brain-Inspired Computing: From Neuroscience to Neuromorphic Electronics driving new forms of Artificial Intelligence* 2022-03-08 the three volume set Incs 13623 13624 and 13625 constitutes the refereed proceedings of the 29th international conference on neural information processing iconip 2022 held as a virtual event november 22 26 2022 the 146 papers presented in the proceedings set were carefully reviewed and selected from 810 submissions they were organized in topical sections as follows theory and algorithms cognitive neurosciences human centered computing and applications the iconip conference aims to provide a leading international forum for researchers scientists and industry professionals who are working in neuroscience neural networks deep learning and related fields to share their new ideas progress and achievements

**Advances in Visual Computing** 2022-12-09

**Image and Video Technology** 2018-06-07

**Selected Topics in Intelligent Chips with Emerging Devices, Circuits and Systems**  
2023-04-03

*Challenges and Applications for Implementing Machine Learning in Computer Vision* 2019-10-04

*Brain-inspired Cognition and Understanding for Next-generation AI: Computational Models, Architectures and Learning Algorithms* 2023-04-19

*Enterprise Digital Transformation* 2022-02-17

Advances in Neural Networks - ISNN 2017 2017-06-12

**Robust Artificial Intelligence for Neurorobotics** 2022-01-31

Human Language 2019-10-29

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