Event-based Neuromorphic Perception and Computation: The Future of Sensing and AI

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Event Based Neuromorphic Systems

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Event Based Neuromorphic Systems:

    Event-Based Neuromorphic Systems Shih-Chii Liu,Tobi Delbruck,Giacomo Indiveri,Adrian Whatley,Rodney Douglas,2015-02-16 Neuromorphic electronic engineering takes its inspiration from the functioning of nervous systems to build more power efficient electronic sensors and processors Event based neuromorphic systems are inspired by the brain s efficient data driven communication design which is key to its quick responses and remarkable capabilities This cross disciplinary text establishes how circuit building blocks are combined in architectures to construct complete systems These include vision and auditory sensors as well as neuronal processing and learning circuits that implement models of nervous systems Techniques for building multi chip scalable systems are considered throughout the book including methods for dealing with transistor mismatch extensive discussions of communication and interfacing and making systems that operate in the real world The book also provides historical context that helps relate the architectures and circuits to each other and that guides readers to the extensive literature Chapters are written by founding experts and have been extensively edited for overall coherence This pioneering text is an indispensable resource for practicing neuromorphic electronic engineers advanced electrical engineering and computer science students and researchers interested in neuromorphic systems Key features Summarises the latest design approaches applications and future challenges in the field of neuromorphic engineering Presents examples of practical applications of neuromorphic design principles Covers address event communication retinas cochleas locomotion learning theory neurons synapses floating gate circuits hardware and software infrastructure algorithms and future challenges *Event-Based Control and Signal Processing* Marek Miskowicz,2018-09-03 Event based systems are a class of reactive systems deployed in a wide spectrum of engineering disciplines including control communication signal processing and electronic instrumentation Activities in event based systems are triggered in response to events usually representing a significant change of the state of controlled or monitored physical variables Event based systems adopt a model of calls for resources only if it is necessary and therefore they are characterized by efficient utilization of communication bandwidth computation capability and energy budget Currently the economical use of constrained technical resources is a critical issue in various application domains because many systems become increasingly networked wireless and spatially distributed Event Based Control and Signal Processing examines the event based paradigm in control communication and signal processing with a focus on implementation in networked sensor and control systems Featuring 23 chapters contributed by more than 60 leading researchers from around the world this book covers Methods of analysis and design of event based control and signal processing Event driven control and optimization of hybrid systems Decentralized event triggered control Periodic event triggered control Model based event triggered control and event triggered generalized predictive control Event based intermittent control in man and machine Event based PID controllers Event based state estimation Self triggered and team triggered control Event triggered and time triggered real time architectures for

embedded systems Event based continuous time signal acquisition and DSP Statistical event based signal processing in distributed detection and estimation Asynchronous spike event coding technique with address event representation Event based processing of non stationary signals Event based digital FIR and IIR filters Event based local bandwidth estimation and signal reconstruction Event Based Control and Signal Processing is the first extensive study on both event based control and event based signal processing presenting scientific contributions at the cutting edge of modern science and engineering

Inference and training in deep neural networks require large amounts of computation which in many cases prevents the integration of deep networks in resource constrained environments Event based spiking neural networks represent an alternative to standard artificial neural networks that holds the promise of being capable of more energy efficient processing However training spiking neural networks to achieve high inference performance is still challenging in particular when learning is also required to be compatible with neuromorphic constraints This thesis studies training algorithms and information encoding in such deep networks of spiking neurons Starting from a biologically inspired learning rule we analyze which properties of learning rules are necessary in deep spiking neural networks to enable embedded learning in a continuous learning scenario We show that a time scale invariant learning rule based on spike timing dependent plasticity is able to perform hierarchical feature extraction and classification of simple objects of the MNIST and N MNIST dataset To overcome certain limitations of this approach we design a novel framework for spike based learning SpikeGrad which represents a fully event based implementation of the gradient backpropagation algorithm We show how this algorithm can be used to train a spiking network that performs inference of relations between numbers and MNIST images Additionally we demonstrate that the framework is able to train large scale convolutional spiking networks to competitive recognition rates on the MNIST and CIFAR10 datasets In addition to being an effective and precise learning mechanism SpikeGrad allows the description of the response of the spiking neural network in terms of a standard artificial neural network which allows a faster simulation of spiking neural network training Our work therefore introduces several powerful training concepts for on chip learning in neuromorphic devices that could help to scale spiking neural networks to real world problems Organized by the U of Granada the April 1999 conference focused on applications of bio inspired microelectronic circuits and systems Published as extended papers the contributions represent five invited talks on various phenomena to emerging technology advances a demonstration of the autonomo

Systems ,2007   <u>Neuromorphic Engineering Systems and Applications</u> André van Schaik,Tobi Delbruck,Jennifer Hasler,2015-07-05 Neuromorphic engineering has just reached its 25th year as a discipline In the first two decades neuromorphic engineers focused on building models of sensors such as silicon cochleas and retinas and building blocks such as silicon neurons and synapses These designs have honed our skills in implementing sensors and neural networks in VLSI using analog and mixed mode circuits Over the last decade the address event representation has been used to interface devices and computers from different designers and even different groups This facility has been essential for our ability to combine sensors neural networks and actuators into neuromorphic systems More recently several big projects have emerged to build very large scale neuromorphic systems The Telluride Neuromorphic Engineering Workshop since 1994 and the CapoCaccia Cognitive Neuromorphic Engineering Workshop since 2009 have been instrumental not only in creating a strongly connected research community but also in introducing different groups to each other s hardware Many neuromorphic systems are first created at one of these workshops With this special research topic we showcase the state of the art in neuromorphic systems   **Experimentation Platforms for Neuromorphic Event-Based Multi-Chip Systems** Daniel Bernhard Fasnacht,2016   <u>Infrared Technology</u> ,1994   *Advanced Focal Plane Arrays and Electronic Cameras* ,1998   **Dissertation Abstracts International** ,2005   *IEEE International Symposium on Circuits and Systems* IEEE Circuits and Systems Society,2003 These volumes relate to matters discussed during the 2003 IEEE International Symposium on Circuits and Systems such as analogue circuits and signal processing communications multimedia systems and applications general and nonlinear circuits and systems and neural networks and systems   **Independent Component Analyses, Wavelets, Unsupervised Nano-biomimetic Sensors, and Neural Networks V** Harold H. Szu,Jack Agee,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature   **IEEE Circuits & Devices** ,1995   *IEEE International Conference on Electronics, Circuits and Systems* ,2001   *Seventeenth Conference on Advanced Research in VLSI* Richard B. Brown,Alexander T. Ishii,1997 This volume on computational intelligence covers the 17th Conference on Advanced Research in VLSI in 1997 Topics include VLSI architecture asynchronous design circuits layout image sensors optimization system timing CAD and low power design   **Proceedings of the 1992 IEEE International Symposium on Intelligent Control** IEEE Control Systems Society,1992   **Journal of the Royal Society Interface** ,2007

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