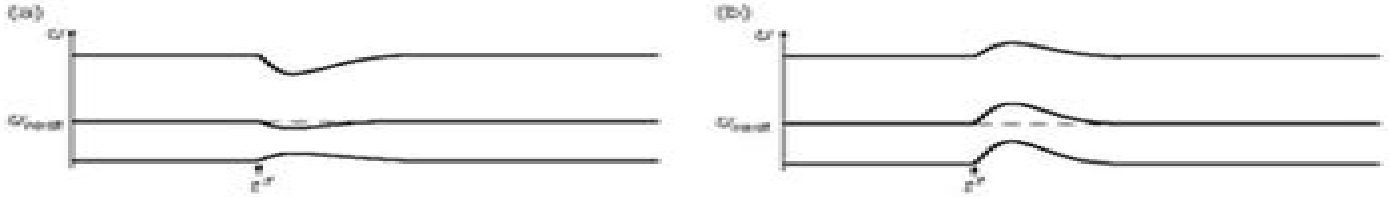

Fig. 1.11 The shape of postsynaptic potentials depends on the momentary level of depolarization. (a) A presynaptic spike that arrives at time t^f at an inhibitory synapse has hardly any effect on the membrane potential when the neuron is at rest, but a large effect if the membrane potential u is above the resting potential. If the membrane is hyperpolarized below the reversal potential of the inhibitory synapse, the response to the presynaptic input changes sign. (b) A spike at an excitatory synapse evokes a postsynaptic potential with an amplitude that depends only slightly on the momentary voltage u. For large depolarizations the amplitude saturates and becomes smaller. (Schematic figure.)

synapses are often located on the soma or on the shaft of the dendritic tree. Owing to their strategic position, a few inhibitory input spikes can "shunt" the whole input that is gathered by the dendritic tree from hundreds of excitatory synapses. This phenomenon is called "shunting inhibition."

The reversal potential for excitatory synapses is usually significantly above the resting potential. If the membrane is depolarized $u_0 \gg u_{rest}$ the amplitude of an excitatory postsynaptic potential is reduced, but the effect is not as pronounced as for inhibition. For very high levels of depolarization a saturation of the EPSPs can be observed; see Fig. 1.11b.

1.4.3 Conductance changes after a spike

The shape of the postsynaptic potentials depends not only on the level of depolarization but, more generally, on the internal state of the neuron, e.g., on the timing relative to previous action potentials.

Suppose that an action potential has occurred at time t_i^f and that a presynaptic spike arrives at a time $t_j^f > t_i^f$ at the synapse j. The form of the postsynaptic potential depends now on the time $t_j^f - t_i^f$; see Fig. 1.12. If the presynaptic spike arrives during or shortly after a postsynaptic action potential, it has little effect because some of the ion channels that were involved in firing the action potential are still open. If the input spike arrives much later, it generates a postsynaptic potential of the usual size. We will return to this effect in Chapter 2.

1.4.4 Spatial structure

The form of postsynaptic potentials also depends on the location of the synapse on the dendritic tree. Synapses that are located far away from the soma are expected to evoke a

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Neuronal Dynamics Wulfram Gerstner,Werner M. Kistler,Richard Naud,Liam Paninski,2014-07-24 This solid introduction uses the principles of physics and the tools of mathematics to approach fundamental questions of neuroscience

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Poggio John Porrill Tony J Prescott John Rinzel Edmund Rolls Jonathan Rubin Nicolas Schweighofer Mohamed A Sherif Malle A Tagamets Paul F M J Verschure Nathan Vierling Claasen Xiao Jing Wang Christopher Williams Ransom Winder Alan L Yuille Ada und die Algorithmen Stefan Buijsman,2021-09-16 Ist k nstliche Intelligenz eine existenzielle Bedrohung f r die Menschheit In vielen unterhaltsamen Geschichten kl rt das mathematische Wunderkind Stefan Buijsman ber die Technologie der Zukunft auf Hat man erst einmal hinter den Bildschirm geschaut sieht die Welt der Algorithmen gleich schon sehr viel weniger be ngstigend aus Seitdem die Byron Tochter Ada Lovelace Mitte des 19 Jahrhunderts das erste Computerprogramm schrieb sind Computer sehr viel kleiner schneller und vor allem intelligenter geworden In einer Hinsicht hat sich jedoch wenig ver ndert Ihre gr te St rke ist zugleich ihre gr te Schw che Computer f hren lediglich Berechnungen durch Nur was sich in klare mathematische Regeln fassen l sst k nnen sie auch erfassen Mit unserem allgemeinen Weltverst ndnis k nnen sie hingegen wenig anfangen Beeindruckt von ihrer zunehmend gigantischen Rechenleistung und ihrer k nstlichen Intelligenz trauen wir ihnen jedoch genau das zu Und begehen damit einen entscheidenden Kategorienfehler zu unseren Ungunsten Der junge Mathematiker und Philosoph Stefan Buijsman ist mit Computern aufgewachsen und kennt nicht nur keine Angst vor Algorithmen sondern durchschaut sie auch Formelfrei zeigt er wie Gesichtserkennung selbstfahrende Autos Tinder Matches und Fake News funktionieren In vielen unterhaltsamen Geschichten kl rt uns Buijsman dar ber auf warum wir von Anfang an zu viel in die k nstliche Intelligenz hineingelesen haben Ihre wahre Gefahr liegt n mlich nicht in ihr selbst sondern darin wie wir sie nutzen indem wir ihr zu sehr vertrauen oder sie zu Zwecken einsetzen die Freiheit Demokratie und Selbstbestimmung zuwiderlaufen **Neuro-inspired Computing for Next-gen AI: Computing Model, Architectures and Learning Algorithms** Angeliki Pantazi,Emre O. Neftci,Bipin Rajendran,Osvaldo Simeone,2022-08-29 **Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications** Ruber Hernández-García,Ricardo J. Barrientos,Sergio A. Velastin,2024-11-16 This two volume set LNCS 15368 15369 constitutes the refereed proceedings of the 27th Iberoamerican Congress on Progress in Pattern Recognition Image Analysis Computer Vision and Applications CIARP 2024 held in Talca Chile during November 26 29 2024 The 35 full and 3 short papers presented in these proceedings were carefully reviewed and selected from 61 submissions The papers presented in these two volumes are clustered into various thematical issues as follows Part I Mathematical methods and computing techniques for artificial intelligence and pattern recognition bioinformatics Part II Biometrics cognitive and humanoid vision computer vision image analysis intelligent data analysis *Decision Making and Modelling in Cognitive Science* Sisir Roy,2016-10-26 This book discusses the paradigm of quantum ontology as an appropriate model for measuring cognitive processes It clearly shows the inadequacy of the application of classical probability theory in modelling the human cognitive domain The chapters investigate the context dependence and neuronal basis of cognition in a coherent manner According to this framework epistemological issues related to decision making and state of mind are seen to be similar to issues related to equanimity and neutral mind as discussed in

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and layout detection and recognition image analysis and processing image restoration and enhancement and visual analytics and modeling Part II Graphics and VR AR reconstruction rendering and animation and theoretical analysis Part III Image analysis and visualization image attention and perception medical imaging and robotics synthesis and generation and empowering novel geometric algebra for graphics engineering workshop **Wireless Communication Using Deep Learning Techniques for Neuromorphic VLSI Computing** Ziad El-Khatib,Sherif Moussa,2025-01-15 This book describes Deep Learning based architecture design for intelligent wireless communication systems and specifically for Deep Learning based receiver design Deep Learning based architecture design utilizes Deep Learning DL techniques to reformulate the traditional block based wireless communication architecture Deep Learning based algorithm design utilizes Deep Learning methods to speed up the processing at a guaranteed high accuracy performance Automatic signal modulation classification in AI based wireless communication can be done using deep learning techniques to improve dynamic spectrum allocation Automatic signal modulation recognition in wireless communication is described using Deep Learning techniques to improve resource shortage and spectrum utilization efficiency Moreover using deep learning neural network circuit methods and doing parallel computations on hardware can reduce costs Spiking neural network SNN provides a promising solution for low power hardware for neuromorphic computing Spiking Neural Networks circuit functions with a pre trained network s weights consume less power Spiking neural network is more promising than other neural networks that can pave a new way for low power computing applications Analog VLSI is utilized to design spiking neural networks circuits such as silicon synapse and CMOS neuron *The Cambridge Handbook of Computational Cognitive Sciences* Ron Sun,2023-05-11 The Cambridge Handbook of Computational Cognitive Sciences is a comprehensive reference for this rapidly developing and highly interdisciplinary field Written with both newcomers and experts in mind it provides an accessible introduction of paradigms methodologies approaches and models with ample detail and illustrated by examples It should appeal to researchers and students working within the computational cognitive sciences as well as those working in adjacent fields including philosophy psychology linguistics anthropology education neuroscience artificial intelligence computer science and more **Intelligence Science IV** Zhongzhi Shi,Yaochu Jin,Xiangrong Zhang,2022-10-19 This book constitutes the refereed proceedings of the 5th International Conference on Intelligence Science ICIS 2022 held in Xi an China in August 2022 The 41 full and 5 short papers presented in this book were carefully reviewed and selected from 85 submissions They were organized in topical sections as follows Brain cognition machine learning data intelligence language cognition remote sensing images perceptual intelligence wireless sensor and medical artificial intelligence

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