Principles of Neural Design

Peter Sterling and Simon Laughlin

Principles Of Neural Design 2015 Worldcat

Peter Sterling,Simon Laughlin

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Principles of Neural Design Peter Sterling,Simon Laughlin,2017-06-09 Two distinguished neuroscientists distil general principles from more than a century of scientific study reverse engineering the brain to understand its design Neuroscience research has exploded with more than fifty thousand neuroscientists applying increasingly advanced methods A mountain of new facts and mechanisms has emerged And yet a principled framework to organize this knowledge has been missing In this book Peter Sterling and Simon Laughlin two leading neuroscientists strive to fill this gap outlining a set of organizing principles to explain the whys of neural design that allow the brain to compute so efficiently Setting out to reverse engineer the brain disassembling it to understand it Sterling and Laughlin first consider why an animal should need a brain tracing computational abilities from bacterium to protozoan to worm They examine bigger brains and the advantages of anticipatory regulation identify constraints on neural design and the need to nanofy and demonstrate the routes to efficiency in an integrated molecular system phototransduction They show that the principles of neural design at finer scales and lower levels apply at larger scales and higher levels describe neural wiring efficiency and discuss learning as a principle of biological design that includes save only what is needed Sterling and Laughlin avoid speculation about how the brain might work and endeavor to make sense of what is already known Their distinctive contribution is to gather a coherent set of basic rules and exemplify them across spatial and functional scales

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