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Zeroing Dynamics, Gradient Dynamics, and Newton Iterations (Hardback)

By Yunong Zhang, Xiaodong Lin, Zhengli Xiao

Taylor Francis Inc, United States, 2016. Hardback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book. Neural networks and neural dynamics are powerful approaches for the online solution of mathematical problems arising in many areas of science, engineering, and business. Compared with conventional gradient neural networks that only deal with static problems of constant coefficient matrices and vectors, the authors new method called zeroing dynamics solves time-varying problems. Zeroing Dynamics, Gradient Dynamics, and Newton Iterations is the first book that shows how to accurately and efficiently solve time-varying problems in real-time or online using continuous- or discrete-time zeroing dynamics. The book brings together research in the developing fields of neural networks, neural dynamics, computer mathematics, numerical algorithms, time-varying computation and optimization, simulation and modeling, analog and digital hardware, and fractals. The authors provide a comprehensive treatment of the theory of both static and dynamic neural networks. Readers will discover how novel theoretical results have been successfully applied to many practical problems. The authors develop, analyze, model, simulate, and compare zeroing dynamics models for the online solution of numerous time-varying problems, such as root finding, nonlinear equation solving, matrix inversion, matrix square root finding, quadratic optimization, and...


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Reviews

Undoubtedly, this is the best function by any writer. This really is for those who statte there was not a really worth reading. Its been written in an exceptionally basic way which is merely right after i finished reading through this book by which really transformed me, change the way i really believe.

-- **Dr. Deonte Hammes DDS**

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