1. Record Nr. UNINA9910373904303321 Artificial Intelligence in China: Proceedings of the International Titolo Conference on Artificial Intelligence in China / / edited by Qilian Liang. Wei Wang, Jiasong Mu, Xin Liu, Zhenyu Na, Bingcai Chen Singapore:,: Springer Singapore:,: Imprint: Springer,, 2020 Pubbl/distr/stampa 981-15-0187-4 **ISBN** Edizione [1st ed. 2020.] Descrizione fisica 1 online resource (XI, 667 p. 304 illus., 225 illus. in color.) Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 572 Collana Disciplina 006.3 Soggetti Electrical engineering Artificial intelligence Electronic circuits Signal processing Image processing Speech processing systems Computers Information theory Communications Engineering, Networks Artificial Intelligence Circuits and Systems Signal, Image and Speech Processing Information Systems and Communication Service Information and Communication, Circuits Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di contenuto Deep Learning and Neural Networks -- Machine Learning -- Computer Vision -- Knowledge Representation and Reasoning -- Probabilistic Reasoning -- Statistical Learning -- Reinforcement Learning --Decision Making -- Fuzzy Systems -- Evolutionary Computing --Inference and Prediction -- Human-Inspired Learning and Computing -- Autonomous Vehicle -- Data Mining -- Spoken Language Processing

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This book brings together papers presented at the International Conference on Artificial Intelligence in China (ChinaAI) 2019, which provided a venue for disseminating the latest advances and discussing the interactions and links between the various subfields of AI. Addressing topics that cover virtually all aspects of AI and the latest developments in China, the book is chiefly intended for undergraduate and graduate students in Electrical Engineering, Computer Science, and Mathematics, for researchers and engineers from academia and industry, and for government employees (e.g. at the NSF, DOD, and DOE).