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Nota di contenuto	Intro -- Contents -- Alzheimer's Disease Classification Based on Improved 3D Convolutional Neural Network -- 1 Introduction -- 2 Proposed Method -- 2.1 Data Acquisition -- 2.2 Data Preprocessing -- 2.3 3D Convolutional Neural Network -- 2.4 Improved VGG Structure Base on 3D CNN -- 3 Experimental and Evaluation -- 3.1 Experimental Setup -- 3.2 Results and Analysis -- 4 Conclusion -- References -- The Simulation Research of Multi-model Adaptive KF and Target Tracking -- 1 Fundamentals of Kalman Filter -- 1.1 The Background of KF -- 1.2 Mathematical Principles -- 1.3 Application -- 2 Adaptive Multi-model Algorithm -- 2.1 Backgrounds -- 2.2 Mathematical Equations -- 3 Simulation of Target Tracking -- 4 Conclusion -- References -- Research on the Design of Intelligent Network Bridge Based on CAN Bus -- 1 Introduction -- 2 Construct Data Forwarding Address Table -- 3 Network Segment and Node Number Allocation Algorithm -- 4 Self-

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Parameter Identification of Bidirectional Converter Based on Improved BPNN.

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#### Sommario/riassunto

This book presents the proceedings of the 17th Chinese Intelligent Systems Conference, held in Fuzhou, China, on Oct 16-17, 2021. It focuses on new theoretical results and techniques in the field of intelligent systems and control. This is achieved by providing in-depth study on a number of major topics such as Multi-Agent Systems, Complex Networks, Intelligent Robots, Complex System Theory and Swarm Behavior, Event-Triggered Control and Data-Driven Control, Robust and Adaptive Control, Big Data and Brain Science, Process Control, Intelligent Sensor and Detection Technology, Deep learning and Learning Control Guidance, Navigation and Control of Flight Vehicles and so on. The book is particularly suited for readers who are interested in learning intelligent system and control and artificial intelligence. The book can benefit researchers, engineers, and graduate students.

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