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Proceedings EEE

A Survey of Deep Learning on Mobile Devices: Applications, Optimizations, Challenges, and Research Opportunities

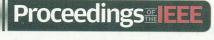
Wearable Photoplethysmography for Cardiovascular Monitoring

Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison

Point of View: Electrification, Decarbonization, and the Future Carbon-Free Grid:
The Role of Energy Storage in the Electric Grid Infrastructure







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334 A Survey of Deep Learning on Mobile Devices: Applications, Optimizations, Challenges, and Research Opportunities
By T. Zhao, Y. Xie, Y. Wang, J. Cheng, X. Guo, B. Hu, and Y. Chen

CONTRIBUTED PAPER | This article surveys the state-of-the-art literature that focuses on deep learning optimization for mobile applications and devices.

355 Wearable Photoplethysmography for Cardiovascular Monitoring

By P. H. Charlton, P. A. Kyriacou, J. Mant, V. Marozas, P. Chowienczyk, and J. Alastruey

|CONTRIBUTED PAPER | This article summarizes the key literature on wearable photoplethysmography and points to future directions in this field.

382 Synchronous Reluctance Machines: A Comprehensive Review and Technology Comparison

By M. Murataliyev, M. Degano, M. Di Nardo, N. Bianchi, and C. Gerada | CONTRIBUTED PAPER | This article reviews the promising synchronous reluctance machine technology, covering its background and evolution, as well as the latest developments in the field.

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Proceedings of EEE A Survey of Deep Learning on Mobile Devices: Applications Optimizations Challenges



On the Cover:

Our cover image this month is a nod to the topic of deep learning techniques used on powerful mobile devices, which is a growing trend in recent years.