

## Special Issue

# Energy-Aware Neuromorphic Hardware

### Message from the Guest Editors

During recent years, researchers throughout academia and industry have been advancing the theory, operation, and applications of neuromorphic computing systems. Recent interest in neuromorphic computing systems stems from its superior and rapidly advancing performance at tasks such as image recognition, learning of complex intelligent behaviors, and large-scale information retrieval problems such as intelligent web search. However, to attain the benefits of neuromorphic computing, high computational and energy-consumption demands of the underlying processing, interconnect, and memory devices on which software-based neuromorphic computing executes has become an intense focus of government, industry, and academic research. Innovative hardware implementations are sought to attain throughput goals within area, security, and energy constraints for orders of magnitude improvements via innovations across the hardware stack. This Special Issue of the JLPEA is dedicated to advances in all aspects of Energy and Secured-Aware Neuromorphic Hardware. We invite original submissions advancing device, circuits, and hardware architectures of neuromorphic computing systems.

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### Guest Editors

Dr. Yu Bai

Dr. Ronald F. DeMara

Prof. Dr. Lin Meng

Prof. Dr. Jiliang Zhang

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### Deadline for manuscript submissions

closed (20 June 2018)



## Journal of Low Power Electronics and Applications

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Impact Factor 1.8  
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## About the Journal

### Message from the Editor-in-Chief

*Journal of Low Power Electronics and Applications* is an open access journal which provides an advanced forum for rapid dissemination of innovative research and important results in all aspects of low power electronics and design.

It publishes reviews, regular research papers and short communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. The full experimental details must be provided so that the results can be reproduced.

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### Editor-in-Chief

Dr. Davide Bertozzi

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