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# Control and Operation of DC/AC/Hybrid Microgrids Based on **Artificial Intelligence**

Guest Editors:	Message from the Guest Editors
Dr. Mohammad Reza Habibi	Dear Colleagues,
Dr. Ali Akhavan	Artificial intelligence (AI) can be implemented in various
Prof. Dr. Josep M. Guerrero	applications for different goals. For an important instant, Al-based approaches can be used just with data, and as a
Prof. Dr. Juan C. Vasquez	result, the studied system can be considered as a black box. Therefore, in the case of using the Al-based
	approaches, the minimum knowledge about the system can be expected. So, Al-based methods have the
Deadline for manuscript submissions: closed (15 August 2023)	mentioned and important advantages. Due to the advantage of the AI-based methods and their wide applicability, they can be implemented in power and energy applications to introduce new solutions and improve their performances. One of the most important power and energy applications can be a microgrid. Microgrids provide an opportunity to implement renewable energy resources. Therefore, by the deployment of green energy, environmental benefits can be suggested. In addition, the local implementation of energy resources makes the control and operation of the system simpler

iggested. In y resources makes the control and operation of the system simpler. Furthermore, microgrids can be designed in a way to reduce costs. Briefly, microgrids can offer environmentally friendly, economical, and less complex power and energy systems.



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# **Editor-in-Chief**

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### Message from the Editor-in-Chief

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