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# Artificial-Intelligent-Based Advanced Energy Management Systems for Microgrids in Smart Cities

Guest Editors:Message from the Guest EditorsDr. Muhammad WaseemDear Colleagues,Dr. Hafiz Abdul MuqeetIn the modern era, smart cities are gai<br/>the number of services offered to the<br/>smart cities can be optimized with t<br/>energy management systems that are<br/>intelligence and machine learning<br/>techniques are crucial in the energy<br/>as they not only reduce energy los<br/>revenue streams for citizens and<br/>authorities. Different methods are us<br/>the enhancement of advanced EMS<br/>response programs (DRPs) and demain<br/>strategies (DMSs) Various technology

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In the modern era, smart cities are gaining attention due to the number of services offered to the citizens. Microgrids in smart cities can be optimized with the help of advanced energy management systems that are enabled by artificial intelligence and machine learning techniques. These techniques are crucial in the energy management system as they not only reduce energy losses, but also create revenue streams for citizens and city management authorities. Different methods are used to further explore the enhancement of advanced EMSs, such as demand response programs (DRPs) and demand-side management strategies (DMSs). Various technologies, such as the Internet of Things (IoT) and cybersecurity methods, are used in smart cities to make the electrical grid reliable and resilient. One of the main aspects of energy management systems is the optimal accommodation of renewable energies in smart microgrids. Thus, submissions on cuttingedge theoretical and experimental studies and recent advances detailed in comprehensive reviews are warmly welcome.







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# **Editor-in-Chief**

### Message from the Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo** Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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