

## Special Issue

# Energy and Power Systems: Control and Management

### Message from the Guest Editors

Traditionally, only loads are variable, and an electric grid's stability is controlled by centralized generators. However, growing environmental concerns have led to the increased integration of Renewable Energy Sources such as photovoltaic, wave, and wind technologies. These are considered Variable Energy Sources because their generation is inherently influenced by weather conditions, which introduces new complexities in grid management. The problem has been further exacerbated by the worldwide increase in energy demand, putting additional strain on the grid. To address this, Demand Side Management techniques have played a crucial role in maintaining grid stability without requiring additional generation capacity. Today, the evolution of the smart grid, which is characterized by its intelligent, responsive, dynamic, flexible, and adaptive nature, is seen as the largest and most complex man-made system. This advanced grid enables better integration of renewable energy and more efficient energy distribution. However, as with any continuously evolving system, there are ongoing challenges and opportunities for improvement.

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### Guest Editors

Dr. Stelios Ioannou  
Prof. Dr. Mohamed Darwish  
Dr. Nicholas G. Christofides

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### Deadline for manuscript submissions

closed (20 May 2026)



## Applied Sciences

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### Editor-in-Chief

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