

# IEEE INTERNATIONAL SYMPOSIUM ON INDUSTRIAL ELECTRONICS ISIE'18

12-15 JUNE 2018, CAIRNS, AUSTRALIA

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## Special Session on “Advanced Energy Management for Microgrids and Embedded Systems”

Organized and co-chaired by

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## Call for Papers

### **Theme:**

*The development of "dispersed" production has put emphasis on microgrids concept and has induced hybrid energy electrical systems that simultaneously use several energy sources. Electro mobility growth has scaled up constraints in terms of engineering and control of energy exchange into so called multi-source systems and their related controller/supervisor. This special session will focus on recent key theoretical and practical developments that concern energy flux better transfer strategies, multi objective power converters design and real time control of storage units. Special interest will be put on their design methodology, control principle and the possible industrial applications.*

### **Possible interesting subjects and related applications are:**

<ul style="list-style-type: none"> <li>• Modeling, control, and management of microgrids;</li> <li>• AC and DC microgrids;</li> <li>• Embedded power generation</li> <li>• Solar, wind power-based embedded generator</li> <li>• Interface in dispersed power generation systems</li> <li>• distribution networks with embedded generation</li> <li>• fault detection algorithm for embedded generation</li> </ul>	<ul style="list-style-type: none"> <li>• Energy and power quality for microgrids;</li> <li>• Renewable energy integration and multi-energy systems;</li> <li>• Power converters for microgrid (topologies, efficiency, performance, etc.);</li> <li>• Energy storage systems for microgrids and embedded generation;</li> <li>• Energy management (techno-economic scheduling, real-time optimization, uncertainties evaluation, etc.);</li> <li>• Test-beds, case-studies, and pilot projects.</li> </ul>
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### **Author's schedule:**

<b>Full Paper Submission Deadline: 15 Jan 2018</b>	<b>Acceptance Notification: 01 Mar 2018</b>	<b>Final Submission of full manuscript: 01 Apr 2018</b>
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*All the instructions for paper submission are included in the conference website:  
<http://www.ieee-isie2018.org/>*