

# The 2018 International Conference on Intelligent Green Building and Smart Grid (IGBSG 2018)

22-25 April 2018, Yilan, Taiwan

Web site: <http://igbsg.ntust.edu.tw>



## Call for Papers

### Organizers:

National Taiwan University of Science and Technology  
National Ilan University

### Financial/ Technical Sponsors:

- IEEE IAS
- IEEE IAS/ IES/ EMC/ CIS Taipei Chapters
- Taiwan Power Electronics Association

### Supporters:

- Ministry of Science and Technology, Taiwan
- Ministry of Education, Taiwan



The 3rd International Conference on Intelligent Green Building and Smart Grid (IGBSG 2018) will be held at the National Ilan University in Yilan, Taiwan on 22-25 April 2018. The objective of IGBSG 2018 is to provide a forum for presenting and discussing the latest developments in building/home communication technologies, e-applications, and green building technologies for a wide range of uses in intelligent buildings and smart grids. In addition to submitted papers, speakers will be invited from academia, industry, and government agencies to present novel technologies and products that address these topics. On-site demos will be held from companies and research organizations involved with IGBSG-related activities.

Papers are called for both oral and poster presentations of topics on power electronics, communications, e-applications, green building and smart-grid technologies of interest to researchers, service providers, consumer electronics manufacturers, or network-solution implementers who develop products, provide quality customer service, support end users, and provide energy-management solutions for the intelligent buildings and smart-grid market. Submitted papers should be two to four pages in length and should follow the standard IEEE conference paper format. Papers presented in conference will be included in IEEE Xplore Digital Library.



Conference areas of interest include (but not limited to):

<ul style="list-style-type: none"> <li>• Green building and smart-grid technologies               <ul style="list-style-type: none"> <li>○ Green energy and smart grid for buildings</li> <li>○ Status of green buildings and smart-grids</li> <li>○ Intelligent and green lighting technologies</li> <li>○ Electric vehicles and components</li> <li>○ Renewable energy research and applications</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Power electronics technologies               <ul style="list-style-type: none"> <li>○ Power electronics for energy saving</li> <li>○ Machine design and motor drives</li> <li>○ Power-electronic devices and systems</li> <li>○ Switching power supplies</li> <li>○ Power integrated circuits</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Building and Home Communication Technologies               <ul style="list-style-type: none"> <li>○ Ubiquitous building/home network access</li> <li>○ Radio propagation and channel modeling</li> <li>○ MIMO communications and smart antennas</li> <li>○ Cognitive radio and software defined radio</li> <li>○ Signal processing for digital communication</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Communication Networks and Applications               <ul style="list-style-type: none"> <li>○ Building management/maintenance networks</li> <li>○ Intelligent building/home optical and wireless technologies</li> <li>○ Multiple access</li> <li>○ Ad hoc networks and sensor networks</li> <li>○ Green communication networks and applications</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• Emerging technologies for healthcare and biomedical applications               <ul style="list-style-type: none"> <li>○ Bio-electronic devices and systems</li> <li>○ Telemedicine and remote monitoring</li> <li>○ Homecare, healthcare, and e-health</li> <li>○ Biomedical systems and applications</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• e-Applications and related technologies               <ul style="list-style-type: none"> <li>○ Distributed home multimedia and entertainment</li> <li>○ Building and home security and safety systems</li> <li>○ Intelligent and flexible in-home display and interfaces</li> </ul> </li> </ul>



### Author's Schedule

Prospective authors should note the following important days:

- |   |                     |
|---|---------------------|
| • <b>Manuscript submission deadline</b> | <b>Nov 01, 2017</b> |
| • <b>Acceptance notification</b>        | <b>Jan 10, 2018</b> |
| • <b>Camera-ready papers</b>            | <b>Jan 31, 2018</b> |
| • <b>Early-bird registration</b>        | <b>Mar 01, 2018</b> |

### Exhibition

A comprehensive exhibition will be held during the conference. Exhibitors will include participants from commercial firms and organizations involved in the manufacturing, sales or distribution of power-electronic equipments and professional or technical services.

### Social Events

Social events include a reception party, a banquet, and technical visits.

### For further information, please contact

IEEE IGBSG 2018 Conference Secretary  
Prof. Chung-An Shen

Department of Electronic and Computer Engineering, No. 43, Section 4, Keelung Rd., Taipei, Taiwan  
Tel: +886-2-2737-3275, Fax: +886-2-2737-6424

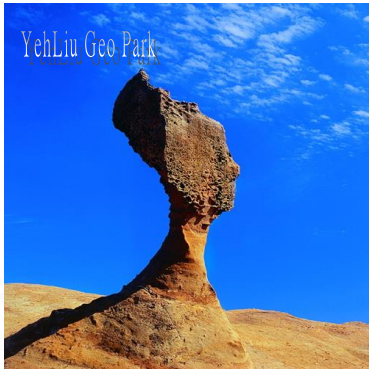
Email: [cashen@mail.ntust.edu.tw](mailto:cashen@mail.ntust.edu.tw) Web site: <http://igbsg.ntust.edu.tw>



# Amazing TAIWAN

April 22-25, 2018

## Tourist Spots



Photography by Hsin-Hsien Chuang



Photography by Hsin-Hsien Chuang



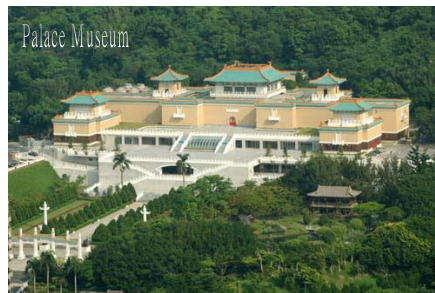
Photography by Yann-Lin Photo Co



Photography by Fwu-Lin Liaw



Photography by Ching Ming Tai



Photography by Hueil-Yu Shiau



Photography by Sun-In AV Co.

## Eating



Photography by Wu-Chih Hsueh



Photography by Qin-Hua Xie



Photography by Shu-Chen Huang



Photography by Zhi-Yu Zhang



Photography by Sheng-Feng Peng

Enjoy Taiwan's Local Cuisine