

# ICGREEN 2016

Fifth International Conference on Green IT Solutions

Rhodes, Greece • 20-21 June 2016

Organized & Sponsored by IICREST, Co-Organized by AUTH, ARSIT

In Cooperation with CTIT, SIKS, and AMAKOTA

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<http://www.icgreen.org>

General Chair:

*Boris Shishkov* (Bulg. Academy of Sciences / IICREST, Bulgaria)

Program Co-Chairs:

*Ilian Ilkov* (IBN - Nederland, The Netherlands)

*Marten van Sinderen* (University of Twente, The Netherlands)

Local Arrangements Chair:

*Dimitris Mitrakos* (Aristotle Univ. of Thessaloniki, Greece)



ICGREEN brings together researchers and practitioners interested in green IT solutions, and in 2016 ICGREEN will be organized in Rhodes, Greece, following a previous successful Milan'15 edition.

ICT and Green are two tightly related concepts. ICT systems in fact might support sustainability in different ways. On the one hand, the design of more efficient ICT systems can contribute in decreasing the energy consumption related to ICT that is continuously increasing. For example, in some regions of the world (e.g., US and UK) the energy consumed by the data centers is close to 10% of the total energy consumed in the area by the country. On the other hand, ICT can be used to monitor the impact of other systems (e.g., buildings, transportation) on the environmental sustainability and to support green-aware decisions. The purpose of ICGreen is to bring together researchers and practitioners that deal with the design of Green ICT systems or of ICT use for environmental sustainability.

We welcome paper submissions from but not limited to the following areas and topics:

### **SOFTWARE ENERGY MANAGEMENT**

- Energy efficient software
- Green business processes
- Green Software metrics

### **GREEN DATA CENTERS**

- Design of energy efficient data centers
- Green monitoring and middleware for systems adaptation
- Data centers energy storage and thermal control for energy efficiency
- Performance optimization under power constraints

### **GREEN NETWORKING**

- Energy efficient communication
- Power consumption of networking infrastructure
- Power-aware protocols and algorithms
- Green network design for high density data centers and cloud computing

### **RENEWABLE ENERGIES**

- Renewable energy models and prediction
- Green / federated data centers powered by renewable energy systems
- Management and control of variability and uncertainty in energy supply and demand

### **ICT FOR SUSTAINABLE SYSTEMS**

- Software and services for sustainable environment
- Using ICT to reduce carbon emissions
- Smart grid and microgrids
- Smart transportation and manufacturing
- Smart buildings and urban development
- Climate and ecosystem monitoring

### **EMPIRICAL STUDIES**

- User studies and behavioral change enabled by computing and communication technologies
- Power measurements and data from empirical studies of computer and communication infrastructure
- Industrial experiences

## **Important Dates:**

### **Regular Papers**

Paper Submission: 7 March 2016  
Authors Notification: 19 April 2016  
Final Paper Submission & Registration: 2 May 2016

### **Position Papers and Special Sessions**

Paper Submission: 23 March 2016  
Authors Notification: 21 April 2016  
Final Paper Submission & Registration: 2 May 2016

## Types of Contributions

*Regular Papers* - presenting research that is completed or almost finished;

*Position Papers* - presenting an arguable opinion about an issue;

*Invited Papers* - authored by outstanding researchers in the area.

## Venue

The ICGREEN sessions will be held at Rodos Palace Convention Center. Rodos Palace constitutes the finest deluxe resort complex on the beautiful Greek island of Rhodes, being ideally located within 4 km from the city of Rhodes. Once in the city, a visitor would be amazed at the diversity of attractions around: (i) Less than 3 km away is the Upper Acropolis of Ancient Rhodes, where are several important ancient monuments, including the temple of Pythian Appolo, the Theater, and the Stadium, all dating back to 2nd century B.C. (ii) Just in the city is the Medieval Town - there (inside the walls) live approximately 6000 residents who are lucky to enjoy the spirit of Rhodes' unique history, reflected not only in the ruins of the Church of Our Lady of Chora but also in all monuments featuring different periods in the island's history, including the Byzantine period, the Roman period, the six centuries of the Knights of St. John, the Turkish occupation, the Italian liberation, the British presence, and so on. (iii) Next to the Medieval Town is Mandraki, the harbor of ancient Rhodes beyond which is the New Town, dominated by Kyprou Square, where are to be found some of the finest boutiques in Rhodes, jewellery stores, fabric shops, modern restaurants/cafes and nearly all the banks. (iv) At the same time, visitors may also enjoy some beautiful beaches around, including the two small beaches in the city and the 5 km of golden sand and crystal-clear waters of Faliraki which is less than 15 km away. Hence, the beautiful city of Rhodes is the ideal starting point in exploring this "Paradise Island" which is also known as the Emerald isle, the Isle of Dreams, the Isle of Roses, and which is associated with myths and legends. This for sure will stimulate participants for an inspiring and productive scientific event.