

# International Workshop on Green Programming, Computing, and Data Processing (GPCDP)

<http://cs.txstate.edu/~zz11/cfp/gpcdp/>

with International Green and Sustainable Computing Conference, 2017

October 23-25 2017, Orlando, Florida

## Scope:

Power and energy consumptions become key constraints of many computer systems from smartphones to data centers. While power and energy consumptions have gained a lot of attentions over the years, the proposed solutions are mainly confined within systems software and algorithms for computation. This workshop aims to provide a venue for discussion of a broader spectrum of approaches to green computing including programming and execution paradigm, and of extensions from computing to data processing. The topics of interest include, but are not limited to, the following:

- Power and energy characteristics of programs
- Power-aware machine learning
- Power-aware data mining
- Power-aware compiling
- Power-aware scheduling
- Power-aware Software Engineering
- Energy-efficient big data processing and analytics
- Energy-efficient storage systems
- Energy-efficient programming
- Power-aware cloud computing
- Energy-efficient heterogeneous computing

## Author Information:

Full papers following the guidelines of the International Green and Sustainable Computing (IGSC) [<http://igsc.eecs.wsu.edu/>] are sought. All papers should be submitted electronically (in PDF format) using the instructions at the workshop website [<http://cs.txstate.edu/~zz11/cfp/gpcdp/>]. All submitted/invited manuscripts will be reviewed and evaluated on correctness, originality, technical strength, significance, quality of presentation, interest, and relevance to the scope of the workshop.

Papers presented at the workshop will be published in the official conference proceedings (through IEEE Digital Library-IEEE Explore) contingent on two conditions: (1) One author of each accepted paper must register for the conference at the time of the submission of the accepted final manuscript and (2) One of the authors must appear to present the paper at the workshop. Please note that each accepted workshop paper will require a full IGSC registration at the IEEE member or at the non-member rate (NOT student rate). There will be no separate workshop-only registration.

**Submission Due: August 25, 2017**

**Notification of Acceptance: September 15, 2017**

**Camera-ready paper due: September 22, 2017**

## Workshop Organizers:

Ziliang Zong, Texas State University

Rong Ge, Clemson University

**Program Committee:**

Michela Becchi, North Carolina State University

Holger Froening, University of Heidelberg

Song Fu, University of North Texas

Rong Ge, Clemson University

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