

# CBIC 2017

## Workshop on Computational Intelligence and Smart Cities

Due to the success of the special session on Smart Cities in the XLIX SBPO edition, we are opening a new call for the Brazilian Congress on Computational Intelligence, the XIII Congresso Brasileiro de Inteligência Computacional - (CBIC 2017), that will be held in the city of Niterói - RJ, from 30 October to 1 November 2017 (website: <http://cbic2017.org/>). The workshop will be focused on the following theme: Computational Intelligence and Smart Cities.

We invite you to submit complete articles (following the CBIC model) via EasyChair system.

**Deadline: 10 September 2017.**

Cities' constant evolution has been driven human beings footsteps.

Allied to the advancement of machines, cities are evolving into a new paradigm, being called Smart Cities.

This evolution, closely related to devices equipped with high-performance computational skills, is happening in urban and rural areas.

Besides promoting a decentralization of the current system, the new cities open doors for different autonomous agents to optimize their own interests. In this context, combinatorial optimization plays a fundamental role for more precise, efficient and balanced decision making. In addition, interaction with citizens is not overlooked, new tools contribute to society by promoting a more participatory economy and development.

On the other hand, such advance must take place in a sustainable manner, since new ideas and ways of harnessing existing resources are being studied. This universe of possibilities opens doors for researchers to see distinct environments of complex and multicriteria decisions.

This call invites researchers to submit papers related to the following topics (but not exclusively):

- Computational Intelligence (CI) applied for urban planning and engineering solutions;
- CI applied for the insertion of renewable energy resources with microgrids;
- CI for Smart Cities (SC) and Smart Grids (SG);
- CI applied for SC logistics;
- SC and Internet of Things;
- CI for Smart/Green Homes;
- CI for decentralized environments;
- CI and citizens;
- Green Computing and Green Operations Research;
- High performance computing and SC;
- City of Things and CI testbed for SC;
- Reviews, trends and state-of-the-art ideas for SC and: combinatorial optimization problems, artificial and computational intelligence, citizens, IoT, SG, renewable resources, among others.

### Important dates and guidelines:

**Deadline for paper submission:** 10 September 2017

**Acceptance notification:** 30 September 2017

Papers submission should be done in Portuguese or English, in the form of a Full Paper (maximum of 12 pages).

Authors must submit original contributions through EasyChair:

<https://easychair.org/conferences/?conf=cbic2017wcisc>

The format of the submission follows the CBIC standard format and is available at: <http://cbic2017.org/Submissions>.

**The best paper of the Special Session will be awarded during the conference.**

Furthermore, an effort will be made for publishing a collection of selected papers in Urban Computing Books Series from Springer



**New york city in the future.**  
Extracted from eVolo Magazine 2016 Skyscraper Competition, Mohammad, Zhao & Zhu (2016).  
<http://www.evolo.us/competition/the-hive-drone-skyscraper/>

### Name of Organizers:

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