

Top10Cs Call for Challenges and Participations

The Open Forum on

Top10Cs: Top 10 Challenges for Smart Worlds

August 11, 2015, Beijing, China

<http://www.cybermatics.org/SWC2015/Top10Cs/index.php>

Colocate: The 2015 Smart World Congress (<http://www.cybermatics.org>)

Colocate: The Smart World Summit (<http://www.cybermatics.org/SWC2015/SWSummit/index.htm>)

Background

Our world is rapidly changing, and swiftly evolving towards so-called smart worlds. The smart worlds starting with smart things such as the smart objects, smart city, smart manufacture, smart systems, will eventually encompass all aspects of the physical world, social world and mental world. A cyber-enabled completely new digital space featured with ubiquitous interconnections, integrations and interactions of physical, social, mental and other spaces will continuously bring out more and more changes. Cyberspace is actually the combinational outcome of various technologies including computers, communications, materials, intelligence and studies in perception, cognition, biology, sociology, etc., as well as advanced computing like the Internet/Web, pervasive networks, ubiquitous sensing and computing, the internet of things, the cloud, big data and so forth. These smart worlds are set to be the next important stage in human history. We have to be aware of the essential problems and crucial issues affecting in building truly smart worlds that benefit humanity, and simultaneously safeguard the natural environment for sustainable development and evolution. Therefore this is the time to foresee future trends and identify what the grand challenges for smart worlds are.

A single person cannot solve all these challenges, but the intelligence exists in the wisdom of the crowd to achieve this through a collective effort. Therefore, the Top10Cs open forum is trying to offer a common platform to enable us to work together to think through these basic challenges and further identify the top 10 challenges for smart worlds, then define the research direction of increasing interest in this realm. Welcome to submit challenges and participate in the selection. We believe that coming up with solutions to these emerging challenges will facilitate the development of smart worlds.

Schedule

The Top10Cs Open Forum will be organized with a series of events/outputs by divided into four stages:

•Challenge Collection Stage: May 1 ~ July 12

At this stage, we solicit challenges from people around the world. No matter what your background or your viewpoint is, you are welcome to submit your challenges via the submit page on the Top10Cs website or by sending email to top10cs@163.com, and the contents of the email are expected to consist of title and brief description of the proposed challenges, your name, email address and affiliation.

• Challenge Selection Stage: July 13 ~ August 2

A whole list of all submitted challenges will be posted on the Top10Cs website for open selection. The selection will be cast by two groups of people, the public/crowd, i.e., people like you, and the Top10Cs TC members. Each person can select for up to 10 challenges via the Top10Cs website.

•Forum Panel Stage: August 11

A Top10Cs open forum panel will be held together with the smart world summit during the 2015 Smart World Congress. The two sets of top 10 challenges selected by the public/crowd and the Top10Cs TC members will be first announced by the Top10Cs committees. Next, invited Top10Cs keynote speakers will give their comments or own ideas on the top 10 challenges. Afterwards, the forum will have hold open discussions. The proposers of and selectors for the top 10 challenges will be given awards.

•Challenge Report Stage: August 14 ~

The Top10Cs committees will come up a final Top10Cs summary report about the top 10 challenges selected results, keynote statements, audience comments, and other data including a complete list of the challenges collected, their total selections, statistical data, etc. The report will be posted on Top10Cs website for open access. A review of the Top10Cs including selected top 10 challenges is going to be published in the Special Section on Challenges for Smart Worlds in IEEE Access http://www.ieee.org/publications_standards/publications/ieee_access/smart_worlds.pdf.

More details can be found from <http://www.cybermatics.org/SWC2015/Top10Cs/index.php>, and more smart world related information can be found from <http://www.cybermatics.org/SWC2015/SWRRelatedInfo/index.html>.

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