

**Special Issue on “Smart Sustainable Green Cities: Requirements,
Development and Realization Challenges”
in Sustainable Cities and Societies Journal (Elsevier)
Special Issue Guest Editor: A. Atieh**

Smart green and sustainable cities concept is an important aspect for measuring achievements of countries in advancing their civilization and development. Civilized countries are driving research and development towards greener cities and societies to improve global environmental conditions and to minimize produced pollution. It is not only important to implement different kinds of renewable energy technologies in cities and societies but also it is important to manage the demand and distribution of produced energy to achieve comprehensive energy solution. A solution that provides green energy for electricity, heating, cooling and transportation needs of communities. A combination of different available renewable energy sources including PV, CPV, CSP, wind, geothermal, tidal, etc. is essential to allow sustainable energy for the cities. Smart green cities must adopt intelligent energy management schemes in the different levels starting from the home and ends in every branch in the city including transportation, schools, hospital, factories, streets, etc... The requirements, challenges and status of the developed technologies for realizing smart sustainable cities is the main scope of this special issue, where authors are encouraged to

- address advancement in energy optimization and management for implementing zero-net energy buildings and facilities to achieve energy demand reduction.
- address renewable energy distribution and management to improve efficiencies of premises energy system.
- address smart grids and infrastructures to enable sustainable green energy systems

The special issue covers the following topics:

- Technical issues that are encountered during integrating smart renewable energy systems with public grids
- Advancement in energy transmission and distribution techniques to enable lower transmission losses and better energy system integration
- Real case studies on the effect of sustainable smart green energy systems on the ecosystem
- Comparison between different hybrid renewable energy and storage systems to achieve cost effective and ecosystem friendly solutions for green cities
- The effect of premises architectural design and material used in buildings to achieve zero carbon building to lower cities pollution.
- Studies and recommended approaches for distribution and electricity tariff for “on demand” energy systems used in smart cities

Timeline and process:

- Open call for papers: Dec 2018
- Submission of manuscript: until 31st of July 2019

Papers will go through standard review process of SCS Journal, and submitted paper must report complete research work. Please take in mind that presented conference papers must be significantly modified and enhanced in general with similarity score not more than 20% before submission, in order to avoid later possible issues with similarity. Also, the relevance to Sustainable Cities and Society should be enhanced with the considerations of scope and readership of the Journal.