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Call for Chapters

Title: Urban Energy Systems

Subtitle: A modeling and Simulation Perspective

Edited by: Dr Deepak Kumar

Estimated publication date: December 2021

Scope of work:

It covers major technological advancements in, and evolving applications of, thermal and photovoltaic solar energy systems. Advances in technologies for harnessing solar energy are extensively discussed, with topics including the fabrication, compaction and optimization of energy grids, solar cells and panels. Leading international experts discuss the applications, challenges and future prospects of research in this increasingly vital field, providing a valuable resource for all researchers working in this field. This comprehensive description and discussion of photovoltaics (PV) is presented at a level that makes it accessible to the interested academic. Starting with an historical overview, the text outlines the relevance of photovoltaics today and in the future. Then follows an introduction to the physical background of solar cells and the most important materials and technologies, with particular emphasis placed on future developments and prospects. The book goes beyond technology with all aspects of solar energy systems. The fundamentals of predicting availability; economic appraisal strategies; specific collector sub-systems, including a proven analytical procedure for predicting performance; and analyses of solar energy systems in depth. Researchers and technologists need to have an insight into the challenges implementation entails, and this book presents practical constraints, operational considerations, and the latest research results. The book should be of great interest to students as well as professionals undertaking feasibility studies, development and implementation, technical assistance, and training assignments. Political action and pressure groups will also find the text useful for developing energy policies.

Tentative table of contents or list of topics:

- Prominent work in the sector, Process of digitalization, Next Generation of Modern Society
- Transiting urban energy scenarios
- Geographical background for urban energy system modelling and Assessment
- Traditional methods of urban energy system modelling and Assessment
- Quantifying the amount of urban energy for the energy harvest.
- Spatio-Temporal and Hyper-Temporal Variability Analysis of urban energy at selected cities/ countries
- Feasibility Analysis of urban energy system for the urban sector.
- Concept of Smart, Intelligent & Sustainable Society
- Comprehensive synthesis of the prominent work
- Energy Policy, Programmes and Initiatives

About Scrivener Publishing:

Established in 2009, the purpose of Scrivener Publishing is to publish books in the technical applied sciences for both the practitioner in industry and the researcher in academia. This high-quality content is essential to our professional customers and is sold globally as print and electronic as well as in aggregated databases, including *Scopus* and *Web of Science*. By partnering with Wiley, the leading engineering publisher, to create our joint imprint, Wiley-Scrivener, Scrivener Publishing offers our authors, editors and contributors, efficient and personalized editorial attention, as well as global marketing, sales, and distribution both in print and digital.

Important Dates:

Abstract Submission (of approx. 500 words): 01st July 2021 **Abstract Acceptance:** 15th July 2021

Full Chapter Submission: 30th September 2021 **Chapter Acceptance:** 30th October 2021

Final chapter Submission (in Word): 15th November 2021 **Submission to Publisher:** 20th November 2021

The book will be published under the Wiley-Scrivener imprint and will be indexed by *Scopus* and offered to *Web of Science*.

How to Submit Your Chapter:

Send your 500-word abstract by the designated deadline to: mail2drdeepak@gmail.com

Advise us how many words your chapter is likely to be and the number of figures/tables. Note we are looking for a range of 8,000-12,000 words. Make sure list all co-authors with complete contact information and links to Google Scholar Profile and CVs. The publisher's guidelines can be located at https://www.scrivenerpublishing.com/guidelines.php. Note that all chapters will be put through similarity software and publisher's guidelines are an overall similarity index of less than 15% (with maximum 3% from any single source). chapter through similarity software such as Turnitin or iThenticate

Reviewing Policy:

The editor(s) will engage 2 single blind peer-reviewers to assess originality, clarity, usefulness, and adherence to scope of project.

About Editor(s):

Dr. Deepak Kumar is presently working as Assistant Professor at AMITY University Uttar Pradesh, Noida, India. He also holds two government-sponsored research project as sole principal investigator namely "Hybrid Urban Landscape Analysis for Green Smart Cities through Geospatial Technology" sponsored from the Science and Engineering Research Board, Department of Science and Technology, Government of India and "Meta-sensing of the urban footprint from airborne synthetic aperture radar (ASAR) data" sponsored from Space Applications Centre (ISRO), Ahmedabad, Gujarat, India. Beyond these, his previous academic background is an amalgamation of computational sciences, geospatial technology, and engineering subjects. He has instructed various courses like Introduction to Geospatial Technology, Spatial Data Analysis and Modeling, Remote Sensing and GIS Application to Human Settlement and Urban Planning, Thermal and Microwave Remote Sensing, Remote Sensing and GIS Application to Environmental Studies, Satellite-Based Navigation System & Cartography. He has been revisiting a wide range of issues associated with traditional research activities but has own ingest of thinking on other non-traditional/challenging areas/topics for exchange of research activities. More preciously his teaching and research interest lie in the area of Spatial Information Science, Spatial Data modelling and Analysis, Spatio-temporal Data Management & Geovisualization, Spatial and Fractal computing, Spatial Predictive analytics, Spatial cognition, Geoprivacy.