

V.S.K.V. Harish



Dr. V.S.K.V. Harish is engaged as a Post-Doctoral Fellow in the Department of Energy and Environment of The Energy and Resources Institute (TERI) University, New Delhi since August, 2016. The project named "Developing and Implementing Smart Grids in India (DISGI)" is an NWO funded project at Eindhoven University of Technology (TUE) with Power Research Electronics Ltd., Netherlands and Rural Spark Energy Ltd., Delhi as industrial partners (indiasmartgrids.com). He is working on developing a consumer-oriented peer-to-peer system for optimal sharing and trading of energy under a micro grid scenario for rural areas of India. His research interests include mathematical modelling, optimization and control, application of distributed energy sources and trans-active energy systems for development of micro grids, multi-agent systems. He has published papers in reputed journals and defended works in international conferences organized by ASHRAE, ELSEVIER and IEEE.

EDUCATIONAL QUALIFICATIONS

- Ph.D. in Building energy modelling, control and optimization, Indian Institute of Technology Roorkee, 2017.
- M.E. (Gold Medal) in Power Engineering, Jadavpur University, Kolkata, 2012.
- B.E. in Electrical and Electronics Engineering, Maharshi Dayanand University, Rohtak, 2009.

HONORS AND AWARDS

- International Travel Support (ITS), Athens, Greece, DST, India, 2014.
- Research scholar fellowship, MHRD, India, 2012 – 16.
- University Medal (Gold), Jadavpur University, Kolkata, 2012.
- Post Graduate Scholarship, MHRD, India, 2010 – 12.
- Scholarship from Bharatiya Jeevandhaara Educational and Charitable Trust, 2001.

SELECTED PUBLICATIONS

Book (1)

- Green Building Energy Simulation and Modeling
V.S.K.V. Harish, Arun Kumar

Elsevier science technology and books, Butterworth-Heinemann
2017

Journals (5)

- A review on modeling and simulation of building energy systems
V.S.K.V. Harish, Arun Kumar
Renewable and Sustainable Energy Reviews
2016
- Reduced order modeling and parameter identification of a building energy system model through an optimization routine
V.S.K.V. Harish, Arun Kumar
Applied Energy
2016
- A simplified mathematical approach to develop thermal model of building
V.S.K.V. Harish, Arun Kumar
International Journal of Research
2015
- Development of a Generic and Simplified Mathematical Model of a Building Space in MATLAB/ Simulink
V.S.K.V. Harish, Arun Kumar
MR International Journal of Engineering & Technology
2014
- Demand side management in India: Action plan, policies and regulations
V.S.K.V. Harish, Arun Kumar
Renewable and Sustainable Energy Reviews
2014

Conferences (8)

- Smart energy control and comfort management in buildings
V.S.K.V. Harish, Arun Kumar
National Conference on Smart Cities, IIITDM Jabalpur
2016
- Modeling and simulation of a simple building energy system
V.S.K.V. Harish, Arun Kumar
IEEE-International Conference on Microelectronics, Computing and Communication, NIT Durgapur
2016
- Planning and implementation strategy of Demand Side Management in India

V.S.K.V. Harish, Arun Kumar
IEEE-Automation, Control, Energy and Systems, AOT Hoogly, Howrah
2014

- Techniques used to construct an energy model for attaining energy efficiency in building:
A review
V.S.K.V. Harish, Arun Kumar
IEEE-Control, Instrumentation, Energy and Communication, University of Calcutta
2014
- A nonlinear time invariant constrained optimization technique for parameter identification of a building energy model
V.S.K.V. Harish, Arun Kumar
Elsevier-International Conference on Electronics Engineering and Computer Science, Science City, Kolkata
2014
- Development of an energy model of a building's conditioned space equipped with a heating, ventilation and air conditioning system
V.S.K.V. Harish, Arun Kumar
ASHRAE- Energy in Buildings, Athens-Hellas, Greece
2014
- A simplified mathematical approach to develop a thermal model of building in MATLAB/Simulink
V.S.K.V. Harish, Arun Kumar
National conference on emerging trends in engineering science & technology, COER, Roorkee
2014
- Managing electrical energy in buildings for energy conservation
V.S.K.V. Harish, Arun Kumar
DAV National congress on science and technology, Jalandhar
2013