



## Chirag Deb

PhD Candidate (Building)

### Supervisor:

Assoc. Prof. Lee Siew Eang

### Research Areas:

Development of a methodology for automated energy audit of buildings

### Qualifications:

- M.S. (by research) – Building Technology, Indian Institute of Technology Madras, India
- B.Arch (Architecture) - National Institute of Technology Tiruchirappalli, India

### Awards:

NUS President's Graduate Fellowship (2013-2017)

- Gold medallist / Outstanding Student award for B.Arch securing highest G.P.A
- Best Outgoing Student award for B.Arch by RECAL (Regional Engineering College Alumni Association)
- Ministry of Human Resource and Development (India) graduate scholarship for securing following ranks
  - All India Rank 2 in CEED 2008 (Common Entrance Examination for Design)
  - All India Rank 6 in GATE 2007 (Graduate Aptitude Test in Engineering)

### Publications:

- **Deb C, Ramachandraiah A. (2010) Evaluation of thermal comfort in a rail terminal location in India. Building and Environment Vol. 45 (11) 2571-2580.**
- **Deb C, Ramachandraiah A. (2011) A simple technique to study human thermal comfort in urban locations: Proposing the HXG scale. Building and Environment Vol. 46 (6) 1321-1328.**
- **Deb C, Ramachandraiah A. (2010) The significance of Physiological Equivalent Temperature (PET) in outdoor thermal comfort studies. International Journal of Engineering Science and Technology Vol. 2 (7), 2825-2828.**

- **Deb C**, Ramachandraiah A. (2011) Review of outdoor thermal comfort studies using Physiological equivalent temperature. *Journal of Institute of Engineers (India): Architectural division* Vol. 92, 1-4.
- **Deb C**, Natarajan N. (2012) Using genetic programming to compute thermal sensation and comfort in a building. *International journal of civil engineering* Vol.4(2)113-123.
- **Deb C**, LS Eang, J Yang, M Santamouris (2015) Forecasting diurnal cooling energy load for institutional buildings using Artificial Neural Networks. *Energy and Buildings* 121, 284-297.
- **Deb C**, LS Eang, J Yang, M Santamouris (2015) Forecasting energy consumption of institutional buildings in Singapore *Procedia Engineering* 121, 1734-1740.
- F Zhang, **Deb C**, SE Lee, J Yang, KW Shah (2016) Time series forecasting for building energy consumption using weighted Support Vector Regression with differential evolution optimization technique *Energy and Buildings* 126, 94-103.
- J Yang, M Santamouris, SE Lee, **Deb C** (2015) Energy performance model development and occupancy number identification of institutional buildings *Energy and Buildings* 123, 192-204.
- J Yang, M Santamouris, SE Lee, **Deb C** (2015) Model Development and Comparison for the Evaluation of the Energy Performance of Three Tertiary Institutional Buildings in Singapore *Procedia Engineering* 121, 1133-1143.
- EM Saber, SE Lee, S Manthapuri, W Yi, **C Deb** (2014) PV (photovoltaics) performance evaluation and simulation-based energy yield prediction for tropical buildings *Energy* 71, 588-595.

## Contacts:

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