

## Sundararaman K.

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### EDUCATIONAL QUALIFICATION

<p><b>Ph.D.</b> in Construction Automation and Management Indian Institute of Technology Madras, Chennai, India</p> <p>Thesis title: “A Theoretical Framework to assess Project Performance through Construction Automation” Guide: Prof. Benny Raphael</p>	<p>2021 (Pursuing) (as on 23-02-2021)</p>
<p><b>M.S.</b> in Indoor and Built Environment Indian Institute of Technology Madras, Chennai, India</p> <p>Thesis title: “Studies on Indoor Environmental Comfort in Hospital Buildings in Warm-Humid Climate” Guide: Prof. A. Ramachandraiah</p>	<p>2008</p>
<p><b>B.Arch.</b> in Architecture Thiyagarajar College of Engineering, Madurai, Tamil Nadu, India.</p> <p>Thesis title: “HITEX: Exhibition Pavillions, Hyderabad- Experimenting Long-Span Structures” Guide: Prof. R. Vijay Anand</p>	<p>2005</p>

### TEACHING EXPERIENCE

PERIOD	NO. OF YEARS	DESIGNATION	INSTITUTION
2016 onwards	5 years	Associate Professor	Rajalakshmi School of Architecture, Chennai
2014 -2016	2 years	Assistant Professor	Rajalakshmi School of Architecture, Chennai
2013-2014	1 year	Assistant Professor	Department of Architecture, Sathyabama University
2011-2012	1 year	Visiting Faculty	Anna University
2005-2008	3 years	Teaching and Research Assistant	Indian Institute of Technology Madras

## GUEST LECTURES:

Indian Institute of Technology Madras, Chennai, Tamilnadu, India.  
School of Architecture and Planning, Anna University, Chennai, Tamilnadu, India.  
Department of Civil Engineering, KL University, Andhra Pradesh, India.

School of Architecture, Sathyabama University, Chennai, Tamilnadu, India.  
School of Architecture, Bharath University, Chennai, Tamilnadu, India.  
School of Architecture, Hindustan University, Chennai, Tamilnadu, India.  
School of Architecture, Karpagam University, Coimbatore, Tamilnadu, India.  
School of Architecture, SRM University, Chennai, Tamilnadu, India.

Department of Civil Engineering, JPR College of Engineering, Chennai, Tamilnadu, India.  
School of Architecture, MSAJ, Chennai, Tamilnadu, India.  
School of Architecture, Meenakshi College, Chennai, Tamilnadu, India.  
School of Architecture, RVS, Coimbatore, Tamilnadu, India.  
School of Architecture, Excel College, Namakkal, Tamilnadu, India.  
School of Architecture, Meenakshi College of Engineering, Kodambakkam, Chennai, Tamilnadu, India.

## LATEST PUBLICATIONS

[1] Krishnamoorthi, S., and Raphael, B., A methodology for analysing productivity in automated modular construction. 35<sup>th</sup> International Symposium on Automation and Robotics in Construction, ISARC 2018.

[2] Krishnamoorthi, S., and Raphael, B., A theoretical framework to assess project performance through construction automation. Advances in Robotics, AIR 2019.

## RESEARCH INTERESTS

Architecture, Built Environment and Sustainability: Smart Systems and Practices; Robotics and Automation in Construction; Lean Construction, Resource Optimization and Management; BIM; Data Science, ML, and AI.

## CONFERENCE, SEMINAR, WORKSHOP, TRAINING PROGRAMS

### **International Conferences (Participated and Presented)**

**International Symposium on Automation and Robotics in Construction (ISARC) 2018 (Berlin, Germany) :** Participated and presented a conference paper titled “A methodology for Analysing Productivity in Automated Modular Construction” paper and have been invited for presenting it at the 35th International Symposium on Automation and Robotics in Construction (ISARC), which will be held in Berlin, Germany from July 22-25, 2018.

**Advances in Robotics (AIR) 2019 at IIT Madras:** Participated and presented at **Doctoral Symposium** during Advances in Robotics (AIR) 2019, IIT Madras, to be held in 2-6 July 2019.

### **International Conferences (Volunteered and Participated)**

**International Symposium on Automation and Robotics in Construction (ISARC) 2020 (Japan) Online International Conference:** Being a member of IAARC@IITM, volunteered as part of the international team that facilitated the online proceedings of the 37th International Symposium on Automation and Robotics in Construction (ISARC), which was hosted from Japan held in October 27-28, 2020.

### **International Conferences (Participated)**

**International Group for Lean Construction (IGLC) 2018 at Chennai:** Participated in IGLC 2018, International Group for Lean Construction, held in Chennai, India, between 16<sup>th</sup> and 22<sup>nd</sup> July 2018.

### **IAARC Workshops (Organized)**

**IAARC Workshop at Rajalakshmi School of Architecture, Chennai:** Workshop on Automation and Robotics in Construction: **Organized and Conducted a Workshop titled “Automation & Robotics in Construction”** on 23<sup>rd</sup> and 24<sup>th</sup> July 2019, at Rajalakshmi School of Architecture, Chennai in Association with Centre for Robotics and Automation and International Association for Automation and Robotics in Construction (IAARC).

### **IAARC Workshops (Participated)**

**IAARC Workshop at IIT Madras, Chennai:** Participated in a workshop titled “Construction Automation and Robotics” on 11-12 May 2018, at IIT Madras, Chennai in Association with International Association for Automation and Robotics in Construction (IAARC).

**IAARC Workshop at Hindustan University, Chennai:** Participated in a workshop titled “Application of Robotics & Automation in Civil Engineering” on 26<sup>th</sup> June 2019, Wednesday, at Hindustan University, Chennai in Association with Centre for Robotics and Automation and International Association for Automation and Robotics in Construction (IAARC).

## **INTERNATIONAL SCIENTIFIC COMMITTEE:**

Member of International Scientific Committee: International Conference on Advance Building Sciences 2013, (13-16 Feb 2013) at IIT Madras.

## **PROFESSIONAL EXPERIENCE AT L&T ECC**

<b>INSTITUTION</b>	<b>DESIGNATION</b>	<b>PERIOD</b>
L&T ECC, Chennai	Senior Engineer	2008-2010

## **ARCHITECTURAL DESIGN CONSULTANCY SERVICES**

<b>INSTITUTION</b>	<b>DESIGNATION</b>	<b>PERIOD</b>
vyomSaroop Architects and Interior Designers	Founder and Principal Architect	2010 onwards

## MEMBERSHIP

Council of Architecture (COA)  
Indian Institute of Architects (IIA)  
Indian Green Building Council Accredited Professional (IGBC AP)  
International Association for Automation and Robotics in Construction (IAARC)  
The Robotic Society, India (TRS)

## REFERENCES

### **Dr. Benny Raphael**

Professor  
Department of Civil Engineering  
Indian Institute of Technology Madras,  
Sardar Patel Road,  
Chennai, Tamil Nadu – 600036  
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### **Dr. Koshy Varghese**

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