

Curriculum Vitae

Personal Information

Name: Dr. Gangadhar Mahesh
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Dept. of Civil Engineering
National Institute of Technology Karnataka Surathkal,
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Educational Qualification

Qualifications/ Examinations	University / Institute	Year
Ph. D (Construction Management)	The University of Hong Kong, Hong Kong	2009
M. Eng (Infrastructure Engineering)	Asian Institute of Technology, Thailand	2004
B. Arch	University of Mysore, India	2000

Academic work experience

- ❑ **National Institute of Technology Karnataka, Surathkal, Karnataka, India** (Sep 2023 onwards)
Job Title: **Professor**
- ❑ **National Institute of Technology Karnataka, Surathkal, Karnataka, India** (Sep 2019 – Nov 2023)
Job Title: **Associate Professor**
- ❑ **National Institute of Technology Karnataka, Surathkal, Karnataka, India** (Jul 2013 – Aug 2019)
Job Title: **Assistant Professor**
- ❑ **National Institute of Construction Management & Research, Pune, India** (December 2011 – Jul 2013)
Job Title: **Assistant Professor & Controller of Examinations**
- ❑ **The University of Hong Kong, Hong Kong** (Sep 2009 – Dec 2011)
Job Title: **Post-Doctoral Fellow**

Administrative Responsibilities

- ❑ **Head of the Department, Department of Civil Engineering, NITK**, Aug 2026 onwards
- ❑ **Convener (Campus Planning Committee, NITK)**, Mar 2025 onwards
- ❑ **Board Nominee (Building Works Committee, NITK)**, Sep 2025 onwards
- ❑ **Convener, Campus Space Audit Committee, NITK**, 2026
- ❑ **Associate Dean (Planning and Procurement)**, Dec 2023 – Dec 2025

- ❑ **Professor In-Charge (Civil Works)**, Apr 2022 – Dec 2023
- ❑ **Coordinator - L&T Sponsored M. Tech. CTM Program**, Aug 2014 – Apr 2023
- ❑ **Member, Campus Space Audit Committee, NITK**, 2028
- ❑ **Controller of Examinations, NICMAR**, Jul 2012 - Jul 2013
- ❑ **Deputy Chairman, Task Force on Sustainability, Center for Infrastructure and Construction Industry Development, The University of Hong Kong, Hong Kong** (2010 - 2011)

Research Projects

- ❑ **Enlisting Stakeholder Engagement for Successful Project Delivery – The Case of ‘Jal Swarajya Project’**
Role: Co-investigator; Rs. 2,95,000, funded by Project Management Institute (PMI)
- ❑ **Capacity Building of SMEs for Sustainable Housing Development**
Role: Co-investigator; HK\$ 79,967, funded by The University of Hong Kong, Hong Kong
- ❑ **Relationally Integrated Value Networks for Total Asset Management**
Role: Co-investigator; HK\$ 62,000, funded by The University of Hong Kong, Hong Kong
- ❑ **Management of Infrastructure Rehabilitation, Redevelopment Revitalization – MIRROR**
Role: Co-investigator; HK\$ 61,000, funded by The University of Hong Kong, Hong Kong
- ❑ **Evaluating ‘Construction Industry Development Programmes’ in Hong Kong, Singapore and UK**
Role: Contributor; Funded by Hong Kong Research Grants Council
- ❑ **Development Strategy for Professional Resources of Hong Kong’s Construction and Related Engineering Services**
Role: Contributor, funded by Development Bureau, Hong Kong
- ❑ **Relationally Integrated Value Networks – RIVANS**
Role: Contributor, Funded by Hong Kong Research Grants Council

Research Guidance

Doctoral Thesis (Completed)

Apoorva, D. K. (2024)- Legal framework and consumer centricity in real estate sector and its impact on construction project delivery

Bekele A, B. (2024) Competency Development of Small and Medium Contractors - The Case of Ethiopian Construction Industry

Gowda, P.K.M. (2024) Mechanical and Durability Properties of Geopolymeric Fly Ash Based Grout Prepared in Ambient Conditions

Chaitra, N. K. (2022) Personnel Performance Appraisal System for Construction Contracting Organisations

Ingle, P. V. (2020) Construction Project Performance Assessment using Project Quarterback Rating Model

Deepak, M. D. (2020) Knowledge Management for Safety Culture: An integrated framework for Construction Industry

Mengistu, D. G. (2019) Improving Determinant Factors to Facilitate Construction Industry Development in Ethiopia

Publications

Journal Papers

Kone, V. and **Mahesh G.** (2026), "The IproK ontology: a unified approach to managing construction project information," *International Journal of Construction Management* (8), pp. 1599–1628

Kone, V. and **Mahesh G.** (2025), "An Ontology Driven Bi-Directional Workflow for Integrating Project Management Data into the IFC Standard", *Journal of Information Technology in Construction*, 30(73), pp. 1768–1795

Krishnamurthy, A. D. and **Mahesh, G.** (2024), "Influence of Legal Environment on Housing Delivery," *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 2024, 16(3), 04524010

Krishnamurthy, A. D. and **Mahesh, G.** (2024), "Analysis of Sources of Claims in Residential Real Estate Asset Delivery," *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 024, 16(1), 04523054

Krishnamurthy, A. D. and **Mahesh, G.** (2024), "Stimulation of construction industry output through enhanced efficiency of Indian residential real estate sector," *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction*, 14(4), pp. 562–589

Ingle, P.V., **Mahesh, G.** and M.D. Deepak. (2024), "Developing a project performance assessment model for benchmarking the project success of Indian construction projects", *Benchmarking*, 2024, 31(5), pp. 1426–1452

Bekele, A., A. and **Mahesh, G.** (2024) "Impact of Contractor Development Programs on the Competency of Small and Medium Contractors in Ethiopia", *International Journal of Construction Education and Research*, DOI: 10.1080/15578771.2024.2333406

Bekele, A.A., **Mahesh, G.**, Ingle, P.V. (2024) Enhancing SMCs' competitiveness through improving material supply chain management practice, *International Journal of Construction Management*, DOI: 10.1080/15623599.2024.2304471

Bekele, A., A. and Mahesh, G. (2024) "Exploring the Impact of Endogenic Factors on the Competency of Small and Medium Contractors in the Ethiopian Construction Industry", *Journal of Construction in Developing Countries*, 29(1), pp. 211–245

Deepak, M. D. and Mahesh, G. (2024) Developing an Assessment Framework for Evaluating Knowledge-Based Safety Culture in Construction Organizations, *International Journal of Construction Education and Research*, 20(2), pp. 177–196

Bekele, A. A. and **Mahesh, G.** (2023) Understanding the key factors of operating environment for small and medium contractors in the developing economies: the case of Ethiopia, *Journal of Engineering, Design and Technology* DOI: 10.1108/JEDT-07-2022-0354

Krishnamurthy, A. D. and **Mahesh, G.** (2023), "Consumer Centricity as a Delivery Strategy for Assets in the Real Estate Sector: An Analysis of the Framework and Interpretation of Law," *ASCE Journal of Legal Affairs and Dispute Resolution in Engineering and Construction* DOI: 10.1061/19 (ASCE)LA.1943-4170.0000569.

Deepak, M.D. and **Mahesh, G.** (2023) A framework for enhancing construction safety through knowledge-based safety culture indicators, *International Journal of Construction Management*, DOI 10.1080/15623599.2022.2033420

Ingle, P.V., **Mahesh, G.** (2022) Construction project performance areas for Indian construction projects, *International Journal of Construction Management*, Volume 22, Issue 8, Pages 1443 - 1454

Ingle, P. and **Mahesh, G.** (2022), "Exploring performance areas and developing a performance assessment model for construction projects in India," *Journal of Facilities Management*, DOI 10.1108/JFM-05-2022-0050.

Mengistu DG, Mahesh G. (2022) Manpower development framework for Ethiopian construction industry, *International Journal of Construction Management*, Volume 22, Issue 2, Pages 121 - 132

Deepak, M. D. and **Mahesh, G.** (2021), "Influence of knowledge-based safety culture in the construction industry: a stakeholder's perspective", *International Journal of Workplace Health Management*, Vol. 14 No. 1, pp. 111-128.

Munvar, C., Mengistu, D.G., **Mahesh, G.** (2020) Concurrent Delay Analysis: Methods, Case Law, and Expert Perception. *ASCE J. Leg. Aff. Disput. Resolut. Eng. Constr.* 2020, 12, 04519035.

Ingle, P.V., **Mahesh, G.** and M.D, Deepak. (2020), "Identifying the performance areas affecting the project performance for Indian construction projects", *Journal of Engineering, Design and Technology*, Vol. 19 No. 1, pp. 1-20.

Mengistu, D.G. and **Mahesh, G.** (2020), "Dimensions for improvement of construction management practice in Ethiopian construction industry", *Journal of Engineering, Design and Technology*, Vol. 18 No. 1, pp. 21-39.

Mengistu DG, **Mahesh G.** (2020) Challenges in developing the Ethiopian construction industry, *African Journal of Science, Technology, Innovation and Development*, 12(4):373–384

Deepak, M.D. and **Mahesh, G.** (2019), "Developing a knowledge-based safety culture instrument for construction industry: reliability and validity assessment in Indian context", *Engineering Construction and Architectural Management*, Vol. 26 No. 11, pp. 2597-2613.

Mengistu, D. and **Mahesh, G.** (2019), "Construction education in Ethiopia: knowledge and skills level attained and effectiveness of internship program", *Higher Education, Skills and Work-Based Learning*, Vol. 9 No. 3, pp. 510-524.

Sahu, P.K., Padhi, A., Patil, G.R., **Mahesh, G.**, Sarkar, A.K. (2019), Spatial temporal analysis of freight flow through Indian major seaport system. *Asian J. Shipp. Logist.* **35**, 77–85.

Deepak, M.D., **Mahesh, G.** and Medi, N.K. (2019), "Knowledge management influence on safety management practices: evidence from construction industry", *International Journal of Knowledge Management (IJKM)*, Vol. 15 No. 4, pp. 16-37.

Deepak, M.D. and **Mahesh, G.** (2019), Review of concepts and Trends in Safety culture research of construction Industry, *Indian Journal of Public Health Research & Development*, 10 (5) (2019), p. 142.

Ingle, P. V. and **Mahesh, G.** (2019) *International Journal of Mathematical, Engineering and Management Sciences*, 2019, Vol.4, 4, pp.895-904.

Kumaraswamy, M., **Mahesh, G.**, Mahalingam, A., Loganathan, S. and Kalidindi, S. (2017), "Developing a clients' charter and construction project KPIs to direct and drive industry improvements", *Built Environment Project and Asset Management*, Vol. 7 No. 3, pp. 253-270.

Das, P., **Mahesh, G.** and Kumar R. R., Participatory Risk Management Model for Construction Projects Using Expert Systems, *Journal of Construction Engineering, Technology & Management*. 2016; 6(2): 17–24p.

Ingle P. and **Mahesh G.**, Project Performance Appraisal using PQR: A Review, *Journal of Construction Engineering, Technology & Management*. 2016, 6(2): 25–33p.

Kowshik C. N., and **Mahesh G.**, Key Performance Indicators for Personnel Performance Appraisal System in Construction Industry. *Journal of Construction Engineering, Technology & Management*. 2016; 6(1): 39–44p.

Wong, K., Kumaraswamy, M. M., **Mahesh, G.**, and Ling, F. Y. Y. (2014) Building Integrated Project and Asset Management Teams for Sustainable Built Infrastructure Development, *Journal of Facilities Management*, Emerald Group Publising, Vol. 12. No. 3.

Wong, K., Kumaraswamy, M. M., **Mahesh, G.** and Ng, T. S. T. (2012) Utilizing Societal Engagement as a Vehicle for Enhancing the Image and Sustainability of the Construction Industry, *Special Issue of Sustainable Development Journal on 'Sustainable Architecture, Design & Housing'*, Wiley & Sons Inc, Vol. 20 No. 3, pp. 222-229.

Yang, Y. Y., Kumaraswamy, M. M., Pam, H. J. and **Mahesh, G.** (2011) Integrated Qualitative and Quantitative Methodology to Assess Validity and Credibility of Models for Bridge Maintenance Management System Development, *ASCE Journal of Management in Engineering*, Vol. 27, No. 3, pp. 149-158.

Anvuur, A. M., Kumaraswamy, M. M. and **Mahesh, G.** (2011) Building “Relationally Integrated Value Networks, *Engineering, Construction and Architectural Management*, Vol. 18 No. 1, pp. 102-120.

Book Chapters

Krishnamurthy, A D., Kumaraswamy M. M. and **Mahesh, G.** (2026), Optimising the housing market and enhancing construction industry output, in Ofori, George (Ed.) Research Companion to the Construction Industry in Developing Countries, Elgar Companions to the Built Environment Series, PP. 117-152.

Mahesh, G., Mengistu, D. G. and Kumaraswamy, M. M. (2023) Body of Knowledge in Developing and Implementing Construction Industry Improvement Programmes; in Ofori. G. (Ed.) Building a Body of Knowledge in Project Management in Developing Countries, World Scientific Press, pp. 582-617

Deepak, M. D. and **Mahesh, G.** (2023) Demystifying the Recent Trends and Advances in Safety Culture Research: A Systematic Review in Li, R.Y. M. (Ed.) Construction Safety: Economics and Informatics Perspectives, pp. 165-182, Springer Publications, Singapore

Kumaraswamy, M. and **Mahesh, G** (2022) Dynamics of Construction Industry Development, in Ofori. G. (Ed.) Research Companion to Construction Economics, pp. 153–177, Edward Elgar Publishing, UK

Deepak, M.D., **Mahesh, G.** and Medi, N.K. (2020), “Knowledge management influence on safety management practices: evidence from construction industry”, In *Research Anthology on Changing Dynamics of Diversity and Safety in the Workforce*, IGI Global, 996-1020

Mahesh, G. and Kumaraswamy, M. M. (2009) Co-opetition or Convenient Coalitions? – JV's for Indian Airports redevelopment in the context of the Infrastructure Sector, In the Book entitled “*Multi-national Joint Ventures for Construction in Asia*”, Eds.: Kiyoshi Kobayashi, Khairuddin Abdul Rashid, George Ofori and Stephen Ogunlana, ISBN: 9780727736512, Aug. 2009, Thomas Telford, UK, pp. 62-67.

Kumaraswamy, M.M., Anvuur, A.M., and **Mahesh, G.** (2008) Contractual frameworks and cooperative relationships, In: Brown, S., Pryke, S. and Smyth, H. (Eds.). *Collaborative relationships in construction*: Blackwell Publishing. ISBN: 9781405180412

Awards & Recognition

- Expert Member, Faculty Selection committee, School of Civil Engineering, KLE Technological University (2022, 2024, 2025)

- ❑ Associate Editor, Journal of Built Environment Project and Asset Management (BEPAM), an emerald journal (2020 to present)
- ❑ Member, Editorial Advisory Board, NICMAR Journal of Construction Management (2017 to present)
- ❑ Member, Research Advisory Committee, NICMAR University Pune (2022 to present)
- ❑ BOS Member, Department of Civil Engineering, KLE Technological University, Hubballi (2019 to present)
- ❑ BOG Member, Dakshina Kannada Nirmithi Kendra (2015 to 2020)
- ❑ Member, BOS, Department of Civil Engineering, MIT Manipal
- ❑ Member, BOS, Department of Civil Engineering, SJCE Mysore
- ❑ Editorial Review Board member, Journal of Built Environment Project and Asset Management (BEPAM), an emerald journal (2015 to 2021)
- ❑ Wen-Jiang Prize for outstanding academic performance and excellent research project in the field of Infrastructure Engineering and Management, Asian Institute of Technology, Thailand (2004)

Professional Memberships

- ❑ Member of Council of Architecture