Uma Chakkoth

https://www.researchgate.net/profile/Uma_Chakkoth
https://youtu.be/KaSDMg1THhU

Personal Information

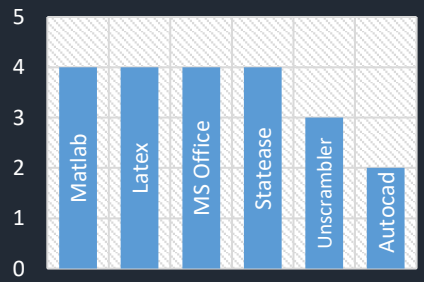
#254, 5th A main road, NGEF layout,
Bangalore, Karnataka, India
Indian Permanent Resident

Mobile: +91 8971792719
Email: umamenon88@gmail.com

SKILLS

Interpersonal and communication skill:
Intercultural skills:
Organisational/ Managerial skills:

Software and Programming Languages:



Coursework:

Academic – Pavement Materials, Pavement Analysis and Design, Pavement Construction technology, Pavement Management system

Languages:

Malayalam, English, Hindi, Tamil, Kannada

References:

Dr. J. Murali Krishnan
Professor
IIT Madras
Email: jmk@iitm.ac.in

Dr. Parag Ravindran
Associate Professor
IIT Madras
Email: paragr@iitm.ac.in

Research Interests

Pavement material characterization, Bitumen rheology, Bitumen chemistry, Constitutive modeling

Education

PhD in Civil Engineering — July 2015 - Present
Indian Institute of Technology, Madras — Chennai, India

Master of Technology – Transportation Engineering — July 2012 - July 2014
REVA Institute of Technology and Management Bengaluru, Karnataka — Bengaluru, India

Bachelor of Technology – Civil Engineering — July 2006 - July 2010
Government Engineering College, Thrissur, Kerala — Thrissur, India

Professional/Research Experience

Indian Institute of Technology, Madras — July 2015 – Present
Ph. D. Research Scholar

Project Associate — July 2014 – June 2015
Asphalt Laboratory, IIT Madras

Systems Engineer — September 2010 – July 2012
Infosys Pvt. Ltd.

Research publications

- Chakkoth, U., Krishna, K. R., Ramkumar, M., Hussain, S. A., Rao, P. V. C., Choudary, N. V., Sriganesh, G., & Krishnan, J. M. (2020). Component blending for bitumen production for Indian refineries. *Sādhanā*, *45*(1), 1-16.
- Abhijith, B.S, Chakkoth, U., & Krishnan, J. M. (2020). Influence of Aggregate Gradation on Laboratory Rutting Performance of Hot-Mix Asphalt Mixtures. In *Transportation Research* (pp. 857-867). Springer, Singapore.
- Chakkoth, U., Ravindran, P., & Krishnan, J. M. (2017). Influence of viscosities of PDA pitch and flux on blended bitumen viscosity. *Airfield and highway pavements, 2017*, 225-235.
- Chakkoth, U., & Krishnan, J.M. (2015). "Investigation on aggregate size distribution of modified binder mixtures using image processing."2nd Conference on Transportation Systems Engineering and Management: NIT Tiruchirappalli, India
- Chakkoth, U., Shenbagameenal, S., Reashma, P. S., & Krishnan, J.M. (2014). "Determination of mixing and compaction temperature for modified binders." Conference on Transportation Systems Engineering and Management: NIT Calicut, India

Workshop

- Presented on topic "Determination of mixing and compaction temperature of modified binders" at *Development of Warrants for use of Modified Binders for Improved Performance of Flexible Pavements – DST Workshop* at Indian Institute of Technology, Madras. https://youtu.be/9J-wUj-9aV0
- Presented on topic "Characterization of colloidal stability of blended bitumen" during a short-term course on *Rheology of Bituminous Binders*, Indian Institute of Technology Madras, India.

Professional societies

- Student Member, American Society of Civil Engineers
- Student Member, Academy of Pavement Science and Engineering