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Lab	CSIR -STRUCTURAL ENGINEERING RESEARCH CENTRE	
Areas of Interest	Stochastic modelling of natural hazards, Durability-Based service life design, Stochastic response analysis of structures, Probabilistic-Fuzzy seismic vulnerability analysis, Condition assessment of existing structures, Risk-Consistent design.	
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Selected Publications (Past five years)

- Balaji Rao, K.**, Anoop, M.B., Harikrishna, P., Selvi Rajan, S. and Nagesh R. Iyer, (2014) "Prediction of negative peak wind pressures on roofs of low-rise building", Wind and Structures, Vol. 19(6), pp 623-647.
- Kamatchi, P., **Balaji Rao, K.**, Dhayalini, B., Saibabu, S., Parivallal, S., Ravisankar, K. and Nagesh R. Iyer, (2014) "Long-term prestress loss and camber of box girder bridge", ACI Structural Journal, Vol. 111(6), pp 1297-1306.
- Geetha Manjari, K., **Balaji Rao, K** and Sivakumar Babu, G.L., (2014) "Stochastic model for settlement: footings on cohesionless soil", Georisk, Vol. 8(4), pp 269-283.
- Balaji Rao, K.** and Anoop, M.B., (2013) "Why do we need probability distributions with fat tails to describe the surface strain evolution in reinforced concrete flexural members", Meccanica, Vol. 48, pp1517-1542
- Balaji Rao, K.**, Anoop, M.B., Raghava, G., Prakash, M. and Rajadurai, A., (2013) "Probabilistic fatigue life analysis of welded steel plate railway bridge girders using S-N curve approach, Proceedings of Institution of Mechanical Engineers Part O", Journal of Risk and Reliability, Vol. 227(4), pp 385-404.
- Kamatchi, P., **Balaji Rao, K.**, Nagesh R. Iyer, and Arunachalam, S., (2012) "Neural network-based methodology for inter-arrival times of earthquakes", Natural Hazards, Vol. 64, pp 1291-1303.
- Venkatesha, K.V., **Balaji Rao, K.**, Dinesh, S.V., Bharathkumar, B.H., Anoop, M.B., Balasubramanian, S.R. and Nagesh R. Iyer, (2012) "Experimental Investigation on Reinforced Concrete Beams without and with CFRP Wrapping", Slovak Journal of Civil Engineering, Vol. XX(3), pp 15-26.
- Anoop, M.B., **Balaji Rao, K.**, Lakshmanan, N. and Raghuprasad B.K., (2012) "Markov chain modeling of evolution of strains in reinforced concrete flexural beams", Materials de Construcción, Vol. 61(307), pp 443 - 453.
- Balaji Rao, K.**, Bhaskar Desai, V. and Jagan Mohan D., (2012) "Probabilistic analysis of Mode II fracture of concrete with crushed granite stone fine aggregate replacing sand", Construction and Building Materials, Vol.27 (1), pp 319 - 330.
- Balaji Rao, K.**, Anoop, M.B., Sreeshylam, P., Sridhar, S., Kesavan, K., and Ravisankar, K., (2011) "Assessment of Prestress losses in instrumented prestressed concrete beams using stochastic analysis", Strain, Vol. 47, pp 175-188.