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Designation	Chief Scientist	
Lab	CSIR -STRUCTURAL ENGINEERING RESEARCH CENTRE	
Areas of Interest	Computational Mechanics; Finite element Analysis; Structural Dynamics; High Performance Computing; Nature inspired algorithms; Structural Health monitoring; vibration control, Structural system identification; Systems Engineering	
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Selected Publications (Past five years)

1. **Rama Mohan Rao, A.,** Lakshmi, K., Krishna Kumar, S., (2015) "Detection of Delamination in laminated composites with limited measurements combining PCA and Dynamic QPSO", *Advances in Engineering Software*, Vol. 86 (1), pp 85–106.
2. **Rama Mohan Rao, A.,** Lakshmi, K.,(2015) "Damage Diagnostic Technique combining POD with time frequency analysis and Dynamic Quantum PSO ", *Meccanica*, Vol. 50, pp 1551-1578.
3. Lakshmi, K., **Rama Mohan Rao, A.,** (2015) "Optimal Design of Laminate Composite Plates using Dynamic Hybrid Adaptive Harmony Search Algorithm" *Journal of Reinforced plastics and composites* , Vol. 34 (6), pp 493-518.
4. J. Prawin, **A. Rama Mohan Rao,** K. Lakshmi, (2015) "Nonlinear identification of structures using ambient vibration data", *Computers and Structure*, Vol. 154, pp 116-134.
5. **Rama Mohan Rao, A.,**Varun Kasireddy, N. Gopala Krishnan, K.Lakshmi.,(2015) "Sensor Fault detection in Structural Health monitoring using Null Subspace based approach", *Journal of intelligent materials and structures*, Vol. 26(2), pp 172–185.
6. Lakshmi, K., **Rama Mohan Rao, A.,** (2014) "A robust damage-detection technique with environmental variability combining time-series models with principal components" *Non-destructive Testing and Evaluation*, Vol. 29 (4), pp 357–376.
7. Lakshmi, K., **Rama Mohan Rao, A.,** (2013)"Hybrid Shuffled Frog Leaping Optimisation algorithm for multi-objective optimal design of laminate composites", *Computers & Structures*, Vol. 125, pp 200–216.
8. **Rama Mohan Rao, A.,** Lakshmi, K., Dhanya Venkatachalam.,(2012) "Damage diagnostic technique for Structural Health monitoring using POD and self-adaptive Differential Evolution algorithm", *Computers and Structures*, Vol. 106–107, pp 228-244.
9. **Rama Mohan Rao, A.,** Lakshmi, K., (2011) "Structural parameter estimation combining domain decomposition techniques with immune algorithm", *Smart Structures and Systems*, Vol. 8 (4), pp 343-365.
10. **Rama Mohan Rao, A.,** Shyju, P.P., (2010) "A new meta-heuristic algorithm for multi-objective optimal design of Hybrid Laminate Composite structures", *International Journal for computer Aided Civil and Infra Structure Engineering*, Vol. 25, pp 149-170.