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Research Interests: Aerospace Structural Health Monitoring

PUBLICATIONS:

1. Babu, A.C., Karri, R.K., **Nisha, M.S.**, (2018), Sensor data fusion using kalman filter, Proceedings - 2018 International Conference on Design Innovations for 3Cs Compute Communicate Control, ICDI3C 2018, 8437083, pp. 29-36
2. **Nisha, M.S.**, Khan, P.F., Ravali, K.V. (2018), Structural health monitoring of glass fiber reinforced polymer using nanofiber sensor, Lecture Notes in Mechanical Engineering, PartF7, pp. 245-256.
3. **Nisha, M.S.**, Greety, D.J.B., Singh, D.(2018), Design and Development of Nanocomposite with Enhanced Thermal and Electrical Property for Electromagnetic Interference [EMI] Shielding in Aircraft's Cockpit Walls, Materials Today: Proceedings 5(2), pp. 8147-8151
4. **Nisha, M.S.**, Siva Kota Reddy, P, (2018), Damage sensing through electrical resistive measurement using electrospun PVDF-CNF sensor. Lecture Notes in Mechanical Engineering, PartF7, pp. 205-217
5. **Nisha, M. S.** and Singh, D., (2016), Manufacturing of Smart Nano Materials for structural Health Monitoring (SHM) in Aerospace application using CNT and CNF. *Journal of Nano Research*, 37: 42-50.

6. **Nisha, M. S.** and Singh, D., (2016), Development of Continuous and Real Time Structural Health Monitoring of Aircraft Primary Structure Through Embedded Carbon Nano Fiber Sensors. *Int. J. Vehicle Structures & Systems*, 8(2): 74-81.
7. **Nisha, M. S.** Singh, D., Freesta Shiny, G. and Sasirekha, B., (2016), 'Design and Manufacture of Nanofibers Using Electrospinning Technique for Aerospace Application, *Applied Mechanics and Materials*, 852: 72-78.
8. **Nisha, M. S.** Singh, D., (2016), Enhancement of β phase Crystal Formation in PVDF/MWCNT Fiber mat Sensor for Strain Sensing Application, *Journal of Advanced Engineering Research* ,3(2): 116-123.
9. Lakshmi, P., and **Nisha, M. S.**, (2015), Development of smart nano composites for Aerospace Structural Health Monitoring system, *International Journal of Applied Engineering Research*, 10(7):16303-16320.

Conferences Publication

International

1. **Nisha, M. S.** Singh, D., Design and Manufacture of Nanofibers Using Electrospinning Technique for Aerospace Application, *International Conference on Mechanical Engineering Design*, SSN College of Engineering, Chennai, 25-26 April 2016
2. **Nisha, M. S.** Singh, D., Development of nano sensor for damage monitoring in aerospace structure, *International Conference on Materials, Design and Manufacturing process - ICMDM2016*, held at Anna University, Chennai on Feb 17-19, 2016.
3. **Nisha, M. S.** Singh, D., Lakshmi, P., and Punitha, S., Identification of Smart Nano Material between CNF and MWCNT-CNF by different manufacturing process for Structural Health Monitoring (SHM) in Aerospace application, *Proceedings of International Conference on Advances in Materials, Manufacturing and Applications (AMMA 2015)*, NIT Trichy, April 9-11, 2015.
4. **Nisha, M. S.** Singh, D. Structural Health Monitoring of Glass Fiber Reinforced Composites Using Embedded Piezo Electric Sensors, *International Conference on Advances in Design & Manufacturing, (ICAD&M'14)*, NIT Trichy ,Dec 5-7,2014,

National

1. **Nisha, M. S.** Singh, D and Freeta, S., Enhancement of beta phase crystal formation PVDF-MWCNT fiber mat sensor for strain sensing applications, *National conference on processing and characterization of Advance engineering materials -NCPAEM2016*, held at SSN, Chennai on 6th May 2016.