

## List of Publications from M.S.R.S.A.S.

Year 2007 – 08

1. Ananthapadmanabha, T.V. (2008) Voice Characterization by Inverse Filtering. *Proc. Workshop on Voice: Assessment and Management*, February 2008, AIISH, Mysore.
2. Ananthapadmanabha, T. V. (2008) Invited Talk on Articulatory and Formant Synthesizers. *International Workshop, WiSSAP*, 2 to 5 January 2008, IIT, Chennai.
3. Ananthapadmanabha, T. V. (2007) Invited Talk on Distinctive Features and Property Detectors for Automatic Speech Recognition. *National Symposium on Acoustics*, 5 to 7 December 2007, KSR College of Technology, Tiruchengode.
4. Ananthesha, Sridhara, S. N. & Vamsidhar, D. (2007) Numerical Investigation and Parametric Study of Fluidic Thrust Vectoring by Shock Vector Control Method. *SASTECH Journal, MSRSAS 7*, 58-65.
5. Ashakiran, G. B., Gogoi, A., Nassar, A. & Nagpurwala, Q. H. (2008) Multidisciplinary Design Optimization of an Axial Turbine Stage of Aircraft Auxiliary Power Unit (APU), *AIAA MDO Conference*, Canada.
6. Aswatha, Sridhara, S. N. & Gowda, Gangadhara C. J. (2008) CFD Modeling for Analyzing Flow and Heat Transfer Characteristics in a Square Cavity. *IISc Centenary International Conference on Advances in Mechanical Engineering*. 2 to 4 July 2008, IISc, Bangalore.
7. Babu, Mahendra N. C., Jagadish, T., Ramachandra, K. & Sridhara, S. N. (2008) A Simplified 3-D Finite Element Simulation of Cold Expansion of a Circular Hole to Capture through Thickness Variation of Residual Stresses. *Engineering Failure Analysis 15*, 339–348.
8. Bhiwapure, Amardeep M., Lakshminaryana, H. V. & Brahma, K .K. (2007) Assessment of Cracked Stiffened Panels using Fracture Mechanics. *SASTECH Journal, MSRSAS 7*, 50-57.
9. Biswas, S. (2007) Sustainable mobility services in Kolkata. *Design Philosophy Papers*, Australia, Issues 3 & 4, pp.1-15.
10. Chacko, B. G., Sawant H. & Shankapal, S. R. (2008) Virtual Surgery on Geometric Model of Real Human Organ Data, *A Supplement to IEI News, TECHNORAMA for Professional Engineers and Decision Makers, Medical Electronics*, Vol. 57 (T), 27 March 2008, 3-11.
11. Chaitanya, G. K., Nagpurwala, Q.H. & Rakesh, D. (2008) Parametric Studies on a Rear Flow Spoiler for Enhanced Stability of a Sports Car, *Submitted to 12<sup>th</sup> Asian Congress of Fluid Mechanics*, 18 to 21 August 2008, Taejon, Korea.
12. Chikkerur, Santhosh R., Sharma, Rinki & Ganeshmurthy (2007) Secured Key Management Vehicular Ad Hoc Networks. *SASTECH Journal, MSRSAS 7*, 75-79.
13. Deshpande, M. D., Ballal, Vinay B. S., Shankapal, S. R., Prabhu, Vinay M. D., Kumar, Ashok A & Mahadevan, Chalam. (2007) Flow Simulation in a Modelled

- Human Carotid Artery. *2007 ANSYS INDIA CONFERENCE*, 25 & 26 October 2007, Bangalore.
14. Jingade, Jyotichandra & Sridhara, S. N. Numerical Investigation of Spray Characteristics of a Swirl Airblast Atomizer for varying Geometry and Flow Conditions. *IISc Centenary International Conference on Advances in Mechanical Engineering*. 2 to 4 July 2008, IISc, Bangalore.
  15. Krishnan, C. L., Ajitkumar, T. K., Meti, Ashok C. & Naidu, N. V. R. (2007) Optimization of Fuel Injection Parameters for Meeting Euro III Exhaust Emission Norms on a Heavy Duty Diesel Engine using Taguchi Technique. *SASTECH Journal, MSRSAS 7*, 13-21.
  16. Kumar, A., Shankapal S. R. & Singh, Gajbir. (2007) Study of Parametric Effect on Rollover Behaviour of a Truck Semi-Trailer System. *SASTECH Journal, MSRSAS 7*, 1-12.
  17. Lakshmisha, V. S., Sridhara, S. N. & Nassar, Abdul (2007) Numerical Investigation of Fluid Flow in an Automotive Torque Converter, *International Symposium on Engineering Analysis and Simulation*, 11 to 12 January 2007, Bangalore.
  18. Mahendra Babu, N. C., Jagadish, T, Ramachandra, K & Sridhara, S. N. (2008) A Simplified 3-D Finite Element Simulation of Cold Expansion of a Circular Hole to Capture through Thickness Variation of Residual Stresses, *Engineering Failure Analysis*, **15**, 339–348.
  19. Markandeyulu, Siva, Nassar, A. & Nagpurwala, Q. H. (2007) Numerical Studies on the Effect of Inlet Casing Shape on Performance and Stall Margin of a Transonic Axial Compressor. *7<sup>th</sup> Asian Computational Fluid Dynamics Conference*, 26 to 30 November 2007, Bangalore.
  20. Narasimha, Rama K. & Sridhara, S. N. (2008) Experimental Investigations on Pulsating Heat Pipe. *IISc Centenary International Conference on Advances in Mechanical Engineering*. 2 to 4 July 2008, IISc, Bangalore.
  21. Natarajan, K., Pinjare, S. L. & Gupta, Rohit. (2007) Realization of MEMS based TMAP Sensor and its Application for Automobiles. *SASTECH Journal, MSRSAS 7*, 22-26.
  22. Prakash, T. & Kadambi, Govind R. (2007) Design and Simulation of Phasing Network for Wireless Transceivers to Maximize Signal Radiation. *SASTECH Journal, MSRSAS 7*, 80-85.
  23. Pramod, A. K., Mani, V. G. S. & Subramani (2007) Productivity Improvement of ADA Machine in a Piston Ring Manufacturing Plant. *SASTECH Journal, MSRSAS 7*, 33-41.
  24. Praveen, H. N., Nagpurwala, Q. H. and Nassar, A. (2007) Numerical Investigation of the Effect of Sweep on the Performance of a Transonic Axial Compressor Rotor. *2007 ANSYS INDIA CONFERENCE*, 25 to 26 October 2007, Bangalore.

25. Rajashekar, Abhijit D., Chandra, Girish M. & Narayanaswamy, K. V. (2007) Implementation of OFDM Scheme for Cognitive Radio. *SASTECH Journal, MSRSAS 7*, 66-74.
26. Raju, Padmanabha N., Ajitkumar, B. S. & Dhake, Sunil (2007) Implementation of Milk Run Logistics System in an Auto Component Manufacturing Plant. *SASTECH Journal, MSRSAS 7*, 27-32.
27. Rakesh, D. & Sridhara, S.N. (2007) Studies on the Air Flow Behaviour in an Intake Manifold of a Multi Cylinder SI Engine, *2007 ANSYS INDIA Conference*, 25 & 26 October 2007, Bangalore.
28. Ramya, B., Chaudhari, Shilpa & Verma, Divya (2007) Development of Real-Time Secure Multimedia Streaming System. *SASTECH Journal, MSRSAS 7*, 47-49.
29. Shankapal, S. R (2007) Application of Computer Integrated Manufacturing Systems in the Automotive Industry, *The Indian Experience* (case-study in the motorcycle sector), Fast-tracking the development of quality automotive parts in Nigeria through AMT, National Automotive Design and Development Council, 20-21 August 2007, Abuja, Nigeria
30. Shankapal, S. R (2007) Implementation of CAD/CAM Integration Link with Small and Medium Enterprises (SMEs), Fast-tracking the development of quality automotive parts in Nigeria through AMT, National Automotive Design and Development Council, 20-21 August 2007, Abuja, Nigeria
31. Shankapal, S. R (2007) Enhancing the Employability of Engineering Graduates –An Indian Experience, ICEI, 28 November 2007, Malaka, Malaysia,.
32. Shankapal, S. R., Deb, Anindya., Nath, Ratheesh R. & Sundares, D. C., (2007) A CAE-driven Design Methodology for a Customized Prosthesis for Hemi-pelvis Replacement, *Indian Journal of Biomechanics*, **1**, 159-165.
33. Shankapal, S. R., Kadambi, Govind R., Nagpurwala, Q. H., Nagaraja, B., Nassar, A., Nath, Ratheesh R. & Sawant, Harshal (2008) Development of an Autonomous Micro-Air Vehicle for Surveillance and Rescue Mission. *21<sup>st</sup> National Convention of Metallurgical and Materials Engineers*, 10 to 11 January 2008.
34. Siddaraja, M. D., Nagpurwala, Q.H., Deshpande, M. D. & Shankapal, S. R. (2008) Numerical Studies on the Effect of Trenching on the Performance of a Transonic Axial Flow Compressor, *Submitted to The International Conference on Aerospace Science and Technology*, 26 to 28 June 2008, Bangalore.
35. Sivapragasam, M., Deshpande, M. D., Sridhara, S. N & Ramamurthy, S. (2008) Numerical and Experimental Studies on an Aerodynamic Distortion Grill. *Journal of Aerospace Sciences and Technologies*, Vol. **60**, 183- 192.
36. Sreenivasa, T. N., Sridhara, S. N. & Pundarika, G. (2007) Experimental Investigations of Heat Transfer Characteristics of a Miniature Heat Pipe. *Journal of Engineering Today, (National Journal)* **9**, 10-19.
37. Sreenivasa, T. N., Sridhara, S. N. & Pundarika, G. (2007) Analytical Analysis of Fluid Flow in Gravity Assisted Heat Pipe, *52<sup>nd</sup> International Congress of the Society*

- of Theoretical and Applied Mechanics (ISTAM)*, 14 to 17 December 2007, Bangalore, Published in the proceedings of ISTAM Chapter, IIT, Kharagpur, India, pp 275-283.
38. Sreenivasa, T. N., Sridhara S. N. & Pundarika G. (2008) Experimental Investigations of Characterization of wick for Heat Pipe Applications. *IISc Centenary International Conference on Advances in Mechanical Engineering*. 2 to 4 July 2008, IISc, Bangalore.
  39. Sridhar, K. L., Nassar, A. & Nagpurwala, Q. H. (2008) Numerical Studies on the Effect of Tip Re-Contouring on Thermal Loading of an Axial Turbine Rotor. *IISc Centenary – International Conference on Advances in Mechanical Engineering (IC-ICAME)*, 2 to 4 July 2008, Bangalore.
  40. Sridhar, R. R., Rao, Srinivas & Rama, S. P. (2007) Development of a Gasoline Engine Management System on Motorola Microcontroller using OSEK Standards. *SASTECH Journal, MSRSAS 7*, 42-46.