

List of Publications from M.S.R.S.A.S.
Year 2008 – 09

1. Adityakumar, Sridhara, S. N. & Nassar, A. (2008) Numerical Investigation on Effect of Vane Cross Section on a Ventilated Disc Brake Rotor for Cooling Characteristics. *Proceedings of the 4th BSME-ASME International Conference on Thermal Engineering*, December 2008, Dhaka, Bangladesh.
2. Alakkat, S., Patel, Santosh B. J. & Meti, A.C. (2008) Development and Implementation of Control Algorithm for Adaptive Front Light System of a Car. *SASTECH Journal*, **7**, No.1, 14-22.
3. Arunachalam, V. C., Nagpurwala, Q. H., Deshpande, M. D. & Shankapal, S. R. (2008) Numerical studies on the effect of impeller blade skew on centrifugal compressor performance. *Proceedings of the 4th BSME-ASME International Conference on Thermal Engineering*, IUT, December, Dhaka.
4. Arunachalam, V. C., Nagpurwala, Q. H., Deshpande, M. D. & Shankapal, S. R. (2008) Numerical Studies on the Effect of Impeller Blade Skew on Centrifugal Compressor Performance. *SASTECH Journal*, **7**, No.2, 33-40.
5. Ashakiran, G. B., Gogoi, A & Nagpurwala, Q. H. (2008) Multidisciplinary design optimization of an axial turbine stage of aircraft auxiliary power unit (APU). *AIAA MDO Conference*, Paper No. AIAA-2008-6055, September 2008, 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*. July, IISc, Bangalore.
7. Atwadkar, A., Kumar, S. & Bhalla, V. (2008) Design of Multifunctional Air Transportable Ground Support Trolley. *SASTECH Journal*, **7**, No.2, 20-26.
8. 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.
9. Balamurali Krishna, D.V., Vijaykumar, S. M. & Prashanth B. (2008) Modification of Driver Cabin Structure to Address Structural Failures using Experimental Modal Testing and Analysis. *SASTECH Journal*, **7**, No.1, 1-6.
10. Bharath, B. S., Sridhara, S. N. & Rakesh, D. (2008) Thermal Analysis of Underhood of a Car. *National Seminar on Emerging Trends in Mechanical Engineering*, ETIME-2008, August 2008, BMS College of Engineering, Bangalore.
11. Bharath, R. & Lokesh, A.C. (2008) Lead Time Reduction of Component Manufacturing Through Quick Changeover (QCO). *SASTECH Journal*, **7**, No.2, 13-19.

12. Biradar, J. M., Vijay, B.V., & Jat Kailash (2008) Automotive Chassis Sizing Optimisation for Modal and Distortion Criteria. *SASTECH Journal*, **7**, No.2, 1-7.
13. Chaitanya, G. K., Nagpurwala, Q. H. & Rakesh, D. (2008) Parametric studies on a rear flow spoiler for enhanced stability of a sports car. *Proceedings of the 12th Asian Congress of Fluid Mechanics*, KAIST, 18-21, August, Taejon, Korea.
14. Cyril Prasanna Raj P. & Pinjare, S. L. (2009). Analog VLSI Implementation of Novel Hybrid Neural Network Multiplier Architecture. *3rd International conference on intelligent systems and control (ISCO2009) on Microsystems technology and its applications*, February, KEC, Coimbatore.
15. Cyril Prasanna Raj P., & Pinjare, S. L. (2009). ASIC Implementation of Nonlinear Neural Networks for Image Compression optimizing Area and Power. *3rd International conference on intelligent systems and control (ISCO2009) on Microsystems technology and its applications*, February, KEC, Coimbatore.
16. Cyril Prasanna Raj P. & Pinjare, S. L. (2009) Design and Analog VLSI Implementation of Neural Network Architecture for Signal Processing. *European Journal of Scientific Research*, ISSN 1450-216X, **27**, No.2, 199-216.
17. Cyril Prasanna Raj P., & Pinjare, S. L. (2009). Design and Implementation of Current - Mode Hybrid Digital-to-Analog Converter. *3rd International conference on intelligent systems and control (ISCO2009) on Microsystems technology and its applications*, February, KEC, Coimbatore.
18. George, R. V. & Mishra, Manas R. (2008) Design of a Pram for Indian Babies, Emphasizing Usability and Aesthetics. *SASTECH Journal*, **7**, No.1, 51-56.
19. Hari, V. B., & Sridhara S.N. (2009) Numerical Investigation of Effect of Injection Pressure and Spray Cone Angle on NOx Emission in a DI Diesel Engine, *Proceedings of the Symposium on International Automotive Technology (SIAT 2009)*, Paper No. 200, January 2009, Pune, India.
20. Janardhan, P. & Babu, Mahendra N. C. (2008) Effect of Foreign Object Damage on Fatigue Life of Compressor Blades in a Gas Turbine Engine. *SASTECH Journal*, **7**, No.1, 66-73.
21. Jayasudha, K., Sawant, Harshal. & Mohan, K.G. (2008) Soft Tissue Prototype Development using Virtual Surgery. *National Conference on Recent Trends in Engineering and Technology RTIET 2008*, November, Bangalore.
22. Jingade, Jyotichandra. & Sridhara, S.N. (2008) Numerical Investigation of Spray Characteristics of a Swirl Air blast Atomizer for Varying Geometry and Flow Conditions. *SASTECH Journal*, **7**, No.1, 57-65.
23. Jingade, Jyotichandra & Sridhara, S. N. (2008) Numerical Investigation of Spray Characteristics of a Swirl Air blast Atomizer for varying Geometry and

- Flow Conditions. *IISc Centenary International Conference on Advances in Mechanical Engineering*. July, IISc, Bangalore.
24. Kumaraswamy S., Vijay, B.V. & Vijaykumar S. M. (2008), Measurement and Analysis of Cam Chain Noise for Source Identification and Mitigation, *SASTECH Journal*, **7**, No.1, 7-13.
 25. Kumar, B. V. M., Unakal, Prakash. & Jhunja, P. (2008) Exterior Styling of Futuristic car that Reflects the Essence of Indian Design. *SASTECH Journal*, **7**, No.2, 27-32.
 26. Lalith Kumar, R., & Banthia, Vinod K. (2009) Numerical Simulation for Crashworthiness of Frontal Rail Structure Using Explicit Finite Element Code. *Proceedings of the Symposium on International Automotive Technology (SIAT 2009)*, SAE Paper No. 2009-26-060, January, Pune, India.
 27. Lokesh, A. C. & Mahesh, N. S. (2008) Strategies for Sustainable Biodiesel Feed Stock Generation in India. *Proc. All India Seminar on Biodiesel and Ethanol as Sources of Renewable Energy*, September, Agricultural Engg Div, The Institution of Engineers (India), Karnataka State Centre, Bangalore.
 28. Manoj R., Kumar, Arun M., & Prasad, Srikanta (2008) Development of AC Induction Motor Control Software for X-Ray Tube, *SASTECH Journal*, **7**, No.1, 83-89.
 29. Mohan, Saima, Kadambi, G. R., Reddy, V. K., & Deshpande M. D. (2008) Development of an Industry Standard QRS Detection Algorithm for Automated ECG Analysis. *SASTECH Journal*, **7**, No.1, 74-82.
 30. Murthy, A. D., Shobha, B. N. & Krishnamurthy, V. (2008) Design and Implementation of an Automobile Theft Deterrent System. *SASTECH Journal*, **7**, No.2, 48-52.
 31. Nagpurwala, Q. H. (2008) Current design trends in high performance steam turbines. *Proceedings of the National Conference on Emerging Trends in Mechanical Engineering (ETIME 2008)*, August, BMS College of Engineering, Bangalore.
 32. Narasimha, R. K. & Sridhara, S. N. (2008) Experimental Investigations on Pulsating Heat Pipe. *IISc Centenary International Conference on Advances in Mechanical Engineering*, July, IISc, Bangalore.
 33. Nikkam, Purushotham Rao D, Sawant, Harshal & Patil, Archana (2008) Development of Motion Tracking Based Running Exergame, *SASTECH Journal*, **7**, No.1, 23-29.
 34. Patil, Archana. & Sawant, Harshal (2008) Generation of Stereoscopic Images through Virtual Vehicles Vision from Real Terrain Geometric Model. *International Conference on Trends in Product Life Cycle Modeling, Simulation and Synthesis – PLMSS08*, held at NAL, Bangalore.

35. Raj, Sundar D. V., Mani, V. G. S. & Shyamasundar, S. (2008) Quality Improvement of Residential Mechanical Lock using Six Sigma Techniques. *SASTECH Journal*, 7, No.1, 36-43.
36. Rajan, Muralidhar, Sharma, Rinki & Naik, Sachin, (2009) Bluetooth Ad-hoc Routing Algorithm – Challenges and Design Approach. *National Conference on Networks, Intelligence and Computing Systems (NCNICS'09)*, February 2009, Coimbatore.
37. Rama Narasimha, K. & Sridhara, S. N. (2008) Experimental Investigations on Pulsating Heat Pipe. *IISc Centenary International Conference on Advances in Mechanical Engineering*, July 2008, Indian Institute of Science, Bangalore.
38. Rathiskumar, Selvaraj & Unakal, Prakash V. (2008), Design of a Farm Tractor Focus on Utility and Ergonomics. *SASTECH Journal*, 7, No.1, 44-50.
39. Rehman, S. M. Ur & Cyril Prasanna Raj P. (2008) Design and Implementation of Digital Front End Module of MIMO-OFDM on FPGA. *SASTECH Journal*, 7, No.2, 96, 55-60.
40. Sanjana, T. S., Kumar, S R., Cyril Prasanna Raj P. (2008) Design and FPGA/ASIC Implementation of Distorted Template based Time-of-Arrival Estimator for Local Positioning Application. *SASTECH Journal*, 7, No.1, 90-95.
41. Santosh, J., Sridhara, S. N. & Poovanna, C.T. (2008) Numerical Simulation of Combustion Process in a DI Engine using Micro Chambers in Piston Head. *SASTECH Journal*, 7, No.2, 8-12.
42. Santosh J., Sridhara, S. N. & Poovanna C.T. (2008) Numerical Simulation of Combustion Process in a DI Engine using Micro Chambers in Piston Head. *National Seminar on Emerging Trends in Mechanical Engineering, ETIME-2008*, August 2008, BMS College of Engineering, Bangalore.
43. Sarojadevi, H. (2008) Handling Indeterminism – Key to better Software Project Management. *SASTECH Journal*, 7, No.2, 53-54.
44. Sharma, Rinki & Shiva Kumar, P. (2009) Effect of Propagation and Mobility Model on The Performance of MANETs. *Proceedings of The National Conference on Information Processing, Communication Networks and Embedded System*, pp. 141-144, January 2009, Bangalore.
45. 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. *Proceedings of the International Conference on Aerospace Science and Technology*, June, IISc, Bangalore.
46. Singh, G. M., Nagpurwala, Q. H., Nassar, A. & Shankapal, S.R. (2009) Numerical investigations on crosswind aerodynamics and its effect on the stability of a passenger car. *Proceedings of the Symposium on International Automotive Technology (SIAT 2009)*, SAE Paper No. 2009-26-059, January, Pune, India.

47. Singh, R. R., Kadambi, G. R. & Krishnamurthy, V. (2008) Design and Development of Terminals of Hand-Held GPS using LinSeed Chip. *SASTECH Journal*, **7**, No.2, 41-47.
48. 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*, **60**, 183- 192.
49. 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*. July, IISc, Bangalore.
50. Sridevi, T.R., & Nithyanandam, K. (2008) Implementation of e-learning in an institute of higher education”, pp. 362-368. In *Recent Trends in Technical Education*, Indian Society for Technical Education (ISTE) in cooperation with Macmillan Publishers India Ltd, New Delhi , 2008.
51. Sridevi, T. R., Nithyanandam, K. & Sridhara, S. N. (2008) Current Trends in E-Learning Practices and Challenges in Engineering Colleges in Bangalore. *National Conference on Re-Building the Libraries: Learning from the Past to Plan for the Future*, Organized by Mahatma Gandhi Central Library, Kumarguru College of Technology, Coimbatore Jointly with Society for Advancement of Library and Information Science (SALIS), August 2008, Coimbatore.
52. Sridevi, T. R., Nithyanandam, K. & Sridhara, S. N. (2008) Impact of Educational Background on the Effective Usage of E-learning Technology - A study. *National Conference on Library Profession In Search of a New Paradigm*, December 2008, Bose Institute, Kolkatta.
53. Sridevi, T. R., Sridhara, S. N. & Nithyanandam, K (2009) Tools and Techniques for E-learning: A Comparative Study of Global and Indian Scenario. *International conference on knowledge networking in ICT era*, January 2009, Organised by B.S. Abdur Rahman Crescent Engineering College and Society for the Advancement of Library & Information Science, Chennai.
54. 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)*, July, Bangalore.
55. Varn, V., Ajithkumar & Usha, S. (2008) Rationalising of Warehouse Locations for Inventory Reduction of Bosch Power Tool Division. *SASTECH Journal*, **7**, No.1, 30-35.
56. Venkatesh, S. & Cyril Prasanna Raj P. (2008) Analog VLSI Implementation of Novel Hybrid Neural Network Multiplier Architecture. *SASTECH Journal*, **7**, No.2, 61-66.

57. Vikram, A. C., Kumar, S. & Laddha, Shridhar (2008) Design and Implementation of Motion Estimation Technique for H.264 Advanced Video Coder on FPGA. *SASTECH Journal*, **7**, No.1, 96-101.