

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

### Year 2009 – 2010

1. Adhikari Vivek, P., Nassar, A. & Nagpurwala, Q. H. (2009) Numerical Studies on the Effect of Cooling Vent Setting and Solar Radiation on Air Flow and Temperature Distribution in a Passenger Car. SAE Paper No. 2009-28-048, SAEINDIA Mobility Congress, International Conference on Mobility, Chennai, India, 13<sup>th</sup>-15<sup>th</sup> Dec 2009.
2. Anandhan, S. & Sridhara, S. N. (2009) Design and Analysis of Power Train of a Series Hybrid Electric Car. *SASTECH Journal*, **8**, No.1, 1-8.
3. Anandhan, S., Sridhara, S. N. & Shankapal, S. R. (2009) Design and Analysis of Power Train of a Series Hybrid Electric Car. SAE Paper No. 2009-28-044, SAEINDIA Mobility Congress, International Conference on Mobility, Chennai, India, 13<sup>th</sup>-15<sup>th</sup> Dec 2009.
4. Anil Kumar, R., Lalith Kumar, R. & Srikari, S. (2009) Influence of Hydroforming and Stamping Effects on Crashworthiness of an Automobile S-Rail. *SASTECH Journal*, **8**, No.1, pp. 9- 16.
5. Arun Raveendran, Sridhara, S. N., Rakesh, D. & Shankapal, S. R. (2009) Exterior Styling of an Intercity Transport Bus for Improved Aerodynamic Performance. SAE Paper No. 2009-28-044, SAEINDIA Mobility Congress, International Conference on Mobility, Chennai, India, 13<sup>th</sup>-15<sup>th</sup> Dec 2009. Won the Best Paper Award.
6. Arun Raveendran, Rakesh, D. & Sridhara, S. N. (2009) Exterior Styling of an Intercity Transport Bus for Improved Aerodynamic Performance. *SASTECH Journal*, **8**, No.2, pp. 9 - 16.
7. Aswatha, Gangadhara Gowda, C. J., Sridhara, S. N., Seetharam, T. R. & Seetharamu, K. N. (2009) Numerical Investigations of Natural Convection in a Square Cavity-Boundary Conditions Effects. Proceedings of the International Conference on Applications and Design in Mechanical Engineering (ICADME 2009), University Malaysia Perlis, Malaysia, 11<sup>th</sup>-13<sup>th</sup> October 2009.
8. Balaji, J. V., Deshpande, M. D. & Nassar, A. (2009) Design and Performance Evaluation of a Propeller for Micro-Air Vehicle Application. Symposium on Applied Aerodynamics and Design of Aerospace Vehicle (SAROD 2009), Bangalore 10<sup>th</sup>-12<sup>th</sup> December 2009.
9. Baneesh, E., Mishra, M. R. & Sudhindra Kumar (2009) Design of a Hedge Trimmer for Indian Market. *SASTECH Journal*, **8**, No.1, pp. 55 - 62.
10. Barua, N., Meti, A. C., Shobha, B.N. & Haas, R. E. (2009) Design and Development of a Human Machine Interface for an Automotive Application. *SASTECH Journal*, **8**, No.1, pp. 85 - 92.
11. Chakravarthi, M. R., Sharath Kumar, K. M. & Chowdary, B. N. (2009) Implementation of Lean Logistics System in Material Handling Process for Breakwater Construction. International Conference on Operations Research, in Engineering and Management, Anna University, Tiruchirapalli, 27<sup>th</sup>-29<sup>th</sup> May 2009.

12. Chakravarthi, M. R., Sharath Kumar, K. M., & Chowdary, B. N. (2009) Implementation of Lean Logistics System in Material Handling Process for Breakwater Construction. *SASTECH Journal*, **8**, No.2, pp. 41 - 46.
13. Chaudhari, S. & Shilpa, R. G. (2009) Accident Notification System Modelling Using UML. 2<sup>nd</sup> National Conference on Software Engineering, NSCE'09, M.S. Ramaiah Institute of Technology, Bangalore, 6<sup>th</sup>-7<sup>th</sup> November 2009.
14. Deshpande, M. D., Ballal, V., Shankapal, S. R., Prabhu, V. M. D. & Srinath, M. G. (2009) Subject-specific Blood Flow Simulation in the Human Carotid Artery Bifurcation. *Current Science*, Vol. 97, No. 9, pp. 1303-1312.
15. D'Souza, K. N., Kadambi, G. R. & Mohan, S. (2009) Implementation of Phase Based Optic Flow Algorithm for Obstacle Detection. *SASTECH Journal*, **8**, No.2, pp. 95 - 102.
16. Dudu, S. T. S., Yadav, S. S. G., Arun Kumar, M. & Rani Nisha, C. (2009) In-Vehicle Automotive Network Gateway Electronic Control Unit for Low Price Vehicle (2009) *SASTECH Journal*, **8**, No.2, pp. 79 - 88.
17. Garcia, K. J. L., Lokesh, A. C. & Loyola, M. (2009) Analysing the Benefits of Lean Manufacturing in Cable Assembly Sector via Simulation. *SASTECH Journal*, **8**, No.1, pp. 39 - 46.
18. Goel, R., Sharath Kumar, K.M. & Benu Gopal (2009) Reduction of Lead Time and Operation Cost in Travel Retailing Industry. National Conference on Mechanical Engineering, MSRIT, Bangalore, 13<sup>th</sup>-14<sup>th</sup> Nov 2009.
19. Guru Raghavendra, P., Devakumar, G. & Upadhyay, S. (2009) A Study on Brand Awareness of Shampoo Products for CavinKare Pvt. Ltd. *SASTECH Journal*, **8**, No.2, pp. 33 - 40.
20. Hegde, H. G., Mahesh, N. S. & Doss, K. (2009) Overall Equipment Effectiveness Improvement by TPM and 5S Techniques in a CNC Machine Shop. *SASTECH Journal*, **8**, No.2, pp. 25 - 32.
21. Ingle, S., Dessai, S. & Gore, R. (2009) Development of Software for CANlog Device to Determine the Performance of Tractor. *International Journal of Recent Trends in Engineering*, Vol. 1, No. 3, pp. 206-212.
22. Iyer, B. S., Arun Kumar, M. & Kadambi, G. (2009) Performance Analysis of a Limited Authority Automatic Flight Control System. *SASTECH Journal*, **8**, No.1, pp. 101 - 106.
23. Jayaraj, A., Ajith Kumar, Talwar, D. & Jogindra Babu (2009) Supply Chain Make Over: A High Mix Low Volume Wiring Harness Industry Scenario. *SASTECH Journal*, **8**, No.1, pp. 47 - 54.
24. Kheto, M. K., Mahendra Babu, N. C. & Madan, J. (2009) Fretting Fatigue Analysis in Dovetail Joint of Compressor through Numerical Simulation. *SASTECH Journal*, **8**, No.1, pp. 71- 76.
25. Kiran, U. M., Shankapal, S. R., Poovanna, C. T. & Nassar, A. (2009) Numerical Simulation of Combustion in Twin Spark Ignition Engine. 2009 India Ricardo Software User Conference, Pune, 10<sup>th</sup> November 2009.
26. Krishna Prasad, C., Meetei, K. H. P. & Yadav, S. S. G. (2009) Design of Automatic Car Parking System using PIC Microcontroller. International Conference on Intelligent Systems and Control, Karpagam College of Engineering, Coimbatore, February 2009.

27. Krishna Prasath, C., Shobha, B. N. & Yadav, S. S. G. (2009). Design and Development of a Reconfigurable Virtual Platform for Real Time Kernel. *SASTECH Journal*, **8**, No.1, pp. 107 - 114.
28. Li, H. L., Chang, B. C., Jagadish, C. & Kwatny, H. G. (2009) A DSP Microprocessor Hybrid Control of an Inverted Pendulum. IEEE International Conference on Control and Automation, Christchurch, New Zealand, 9<sup>th</sup> -11<sup>th</sup> December 2009.
29. Maheshwari Priya, Cyril Prasanna Raj, P., Ajay Kumar, P. & Chandra Mohan, P. (2009) Design and Implementation of Analog Viterbi Decoder for Convolution Decoding Applications using 0.18  $\mu\text{m}$  Technology. *SASTECH Journal*, **8**, No.2, pp. 109 - 116.
30. Mathew, G., Cyril Prasanna Raj, P., Martin, T. J., Mazumdar, D. & Tantry, S. (2009) Modelling, Design and Implementation of a 2.4 GHz Low-Noise CMOS VCO for ISM Band Applications. *SASTECH Journal*, **8**, No.1, pp. 121- 128.
31. Meetei, K. H. P., Kadambi, G. R., Shobha, B. N. & George, A. (2009) Design and Development of Handoff Management System in LTE Networks using Predictive Modelling. *SASTECH Journal*, **8**, No.2, pp. 71 - 78.
32. Muralidhar, R., & Sharma, R. (2009) Bluetooth Ad-hoc Routing Algorithm for Mobile Nodes – Challenges and Design Approach. *SASTECH Journal*, **8**, No.1, pp. 115- 120.
33. Muralidhar, R., Sharma, R. & Naik, S. (2009) An Efficient Mobile Ad-Hoc Routing Algorithm for Bluetooth Nodes. International Conference on Wireless Networks (ICWN'09), Las Vegas, Nevada, USA, July 2009.
34. Murthy, N. L. N., Nassar, A. & Shankapal, S. R. (2009) Numerical Studies on the Effect of Piston Bowl Geometry for a DI Diesel Engine Performance and Emission Characteristics. 2009 India Ricardo Software User Conference, Pune, 10<sup>th</sup> November 2009.
35. Pawar, K. A., Banthia, V. K., Mahesh, N. S., Sandeep N. & Madan, J. (2009) Redesign Methodology of Existing Roof Structure of an SUV to Meet Upgraded Rollover Test Regulation. *SASTECH Journal*, **8**, No.1, pp.16 - 24.
36. Poovanna, C. T. & S. N. Sridhara (2009) Numerical Investigation of Droplet Distribution from a Pre-filming Air-blast Atomizer. *NFEMS International Journal of CFD Case Studies*, Vol. 8, pp. 19-28.
37. Powar, K., Majumdar, S. & Unakal, P. (2009) Interior Design of Long Haul Truck Cabin for Improved Ergonomics and Comfort. *SASTECH Journal*, **8**, No.2, pp. 47 - 54.
38. Prakash, S., Selva Kumar, R. & Vasudeva Murthy (2009) Design and FPGA Implementation of Systolic Array Architecture for Full Search Block Matching Algorithm. *SASTECH Journal*, **8**, No.2, pp. 103 - 108.
39. Raghavendra, M., Nagpurwala, Q. H. & Nassar, A. (2009) Numerical Investigation of the Effect of Exit Width Trim on the Performance of a Centrifugal Compressor Impeller. *SASTECH Journal*, **8**, No.1, pp. 77 - 84.
40. Raghavendra, M., Nagpurwala, Q. H., & Nassar, A. (2010) “Numerical Investigation of the Effect of Exit Width Trim on the Performance of a Centrifugal Compressor Impeller”, 8th Asian Computational Fluid Dynamics Conference, Hong Kong, 10-14 January 2010.

41. Ravishankar, R., Sudhindra Kumar & Majumdar, S. (2009) Design of Cooking Stove for Visually Impaired. *SASTECH Journal*, **8**, No.2, pp. 55 - 62.
42. Reddy, B. S., Sawant, H. M., Patil, A. & Haas, R. E. (2009) Dynamic Character Animation Based on User's Motion on Pressure Pad. International Conference on Computer Graphics and Virtual Reality, CGVR'09, Las Vegas, Nevada USA, 13<sup>th</sup>-16<sup>th</sup> July, 2009.
43. Reddy, B. S., Sawant, H. M., Haas, R. E. & Patil, A. (2009) Dynamic Character Animation Based on User's Motion on Pressure Pad. *SASTECH Journal*, **8**, No.1, pp. 31- 38.
44. Roy, V. B. R., Dessai, S. & Yadav, S. S. G. (2009) Design and Development of ARM Processor Based Web Server. *International Journal of Recent Trends in Engineering*, Vol. 1, No. 4, pp. 94-98.
45. Sanjaya, P., Mahesh, N. S. & Kishore Kumar, S. (2009) A Comparative Study of Pitot Tube Measurements and CFD Results for Supersonic Nozzles Employed for Gas Atomisation of Liquid Metals. *International Journal of Dynamics of Fluids*, ISSN 0973-1784, Vol. 5, No. 1, pp. 27-45.
46. Sharath, P. K., Chaudhari, S., Yadav, S. S. G. & Chandrasekhara, A. J. (2009) Design and Development of Embedded System for Monitoring Driver Behaviour using Lane Sensors. *SASTECH Journal*, **8**, No.2, pp. 87 - 95.
47. Shivayogi, A. K., Nagpurwala, Q. H. & Deshpande, M. D. (2009) Numerical Studies on the Effect of Slotted Casing Treatment on the Performance of a Transonic Axial Flow Compressor. *SASTECH Journal*, **8**, No.2, pp. 63 - 70.
48. Sivapragasam, M. & Ramamurthy, S. (2009) Inlet Flow Distortion Effects in Aircraft Gas Turbine Engine Compression Systems. Technical Memorandum, TM PR 0901, June 2009, National Aerospace Laboratories, Bangalore.
49. Sivapragasam, M., Ramamurthy, S., Deshpande, M. D. & Sridhara, S. N. (2009) Computation of Turbulent Jets in Annular Counter-Flow. 11th Annual CFD Symposium, Bangalore, 11<sup>th</sup> – 12<sup>th</sup> August 2009.
50. Srigiri, K. R., Unakal, P. V. & Mishra, M. R. (2009) Design of a Vegetable Transport Vehicle for Indian Villagers. *SASTECH Journal*, **8**, No.1, pp. 63 - 70.
51. Sriram, K., Vijay Singh, Mani, V. G. S., Vishnu Kumar & Ranjan Rao (2009) Activity based Costing in Foundries through an ERP Software. 57<sup>th</sup> Indian Foundry Congress, Kolkata, 13<sup>th</sup>-15<sup>th</sup> Feb 2009.
52. Thomas, J. P., Sawant, H., Banthia, V. K. & Patil, A. (2009) Prototype for an Interactive Traffic Simulator. *SASTECH Journal*, **8**, No.2, pp. 17 - 24.
53. Varun, G., Shankapal, S.R. & Unakal, P. V. (2009) Design, Simulation and Demonstration of a Parallel Parking Mechanism for a City Car. *SASTECH Journal*, **8**, No.1, pp. 25 - 30.
54. Vishwanath, J. P., Meti, A. C. & Shobha, B.N. (2009) Design and Development of Biometric Authentication Technology for Ignition System. *SASTECH Journal*, **8**, No.1, pp. 93 - 100.
55. Viswanath Raju, P, Banthia, V. K. & Nassar, A. (2009) Design of Streamlined Motorcycle Helmet with Enhanced Head Protection. *SASTECH Journal*, **8**, No.2, pp. 1 - 8.