

List of Publications from M.S.R.S.A.S.
Year 2006 – 07

1. Ananthapadmanabha, T. V. & Kamath, C. K. (2006) *DECG for IEEE Trans EMB*.
2. Ananthapadmanabha, T. V. (2006) Modified Cycles of Fifths and Fourths. *Proc. National Conf on Science and Music*, January 2006, Bangalore.
3. Ananthapadmanabha, T. V. (2006) Invited Talk on Articulatory Synthesis. *Workshop on Speech Synthesis*, IISc, 20 Aug 2006.
4. Austina, Tracy Z., Meti, Ashok C. & Raveendra, M. (2007) Design and Development of a Data Interface Unit for Navigation System of an Automobile. *SASTECH Journal, MSRSAS 6*, 61-64.
5. Chacko, Brian G. & Harshal, S. (2007) Virtual Surgery on Geometric Model of Real Human Organ Data. *SASTECH Journal, MSRSAS 6*, 1-8.
6. Chaitanya, T. M., Cyril, Prasanna Raj P. & Kumar, Veena Sanath (2007) ASIC Implementation of Soft Decision Viterbi Decoder for GSM Application. *SASTECH Journal, MSRSAS 6*, 65-70.
7. Cyril, Prasanna Raj P. (2006) Interconnect Self-Heating Effects in VLSI Electro-Thermal Qualitative Analysis. *National Conference*, 10 December 2006, IMAPS, Hyderabad.
8. Cyril, Prasanna Raj P. (2007) RMS and LMS Algorithms for Heart Transplant Analysis. *International Conference on VLSI and Signal Processing*, 6 February 2007, Thirunelveli, Tamil Nadu.
9. Das, Rajarshi & Nagapurwala, Q. H. (2006) Performance Evaluation of 2D Compressor Blade Cascades using MISES code. *9th Annual CFD Symposium of Aeronautical Society of India*, 11 & 12 August 2006.
10. Datta, S., Singh, Sumer & Ghate, Narendra. (2006) Design of Compact Tractor. *SASTECH Journal, MSRSAS 5*, 31-34.
11. Deshpande, M. D. (2006) Answer for a Science Question on Air Bubbles clinging to the Wall, Question Corner in *The Hindu. Science Section* 31 August 2006.
12. Deshpande, M. D. (2006) Answer for a Science Question on the Shape of a Candle Flame, Question Corner in *The Hindu. Science Section* 2 November 2006.
13. Deshpande, M. D. (2006) Answer for a Science Question on the Motion of a Coin in a Bucket of Water, Question Corner in *The Hindu. Science Section* 10 November 2006.
14. Deshpande, M. D. (2006) Answer for a Science Question on the Motion of Raindrops on a Windowpane, Question Corner in *The Hindu. Science Section* 16 November 2006.

15. Deshpande, M. D. (2006) Answer for a Science Question on Split in the Nib of a Fountain Pen, Question Corner in *The Hindu. Science Section* 23 November 2006.
16. Deshpande, M. D. (2007) Answer for a Science Question on the Effect of CO₂ on Fire Extinction, Question Corner in *The Hindu. Science Section* 18 January 2007.
17. Deshpande, M. D. (2007) Answer for a Science Question on Visibility of the Dust Particles in the Sun Beam, Question Corner in *The Hindu. Science Section* 25 January 2007.
18. Deshpande, M. D. (2007) Answer for a Science Question on the Bounce of a Ball, Question Corner in *The Hindu. Science Section* 1 February 2007.
19. Devulapalli, Saikumar (2007) Bringing up Powerpc Core of Xilinx-V2p30 using Linux. *National Conference on Smart Communication Technologies and Industrial Informatics*, 3 & 4 February 2007.
20. Devulapalli, Saikumar & Shilpa, C. (2007) Development of Network Interface Card (NIC) RT-8139C Device Driver in Linux for PowerPC. *SASTECH Journal, MSRSAS* **6**, 44-51.
21. Gopakumar, K. S., Cyril, Prasanna Raj P. & Pinjare, S. L. (2007) Design and Implementation of High Speed, Low Power 10-bit DAC for Video Application. *SASTECH Journal, MSRSAS* **6**, 71-78.
22. Jacob, Anish M., Sridhara, S. N. & Shankapal S. R. (2006) Design and Performance Analysis of Miniature Combustor.
23. Jacob, Anish M., Sridhara, S. N. & Shankapal, S. R. (2006) Development of a Micro Gas Turbine – Part-2: Design and Performance Analysis of Miniature Combustor. *Eighth National Conference on Air-Breathing Engines & Aerospace Propulsion*, 12 to 14 December 2006.
24. Jagadeesh, K. & Vijaya, M. S. (2007) FE Analysis of a Vibrating Rigid Circular Piston in Water. *SASTECH Journal, MSRSAS* **6**, 97-101.
25. Kadam, R., Nagpurwala, Q. H. & Shankapal, S. R. (2006) Development of a Micro Gas Turbine – Part-1: Design and CFD Analysis of the Miniature Centrifugal Compressor. *Eighth National Conference on Air-Breathing Engines & Aerospace Propulsion*, 12 to 14 December 2006.
26. Kamath, C. K. & Ananthapadmanabha, T. V. (2007) Modeling QRS Complex in dECG. *IEEE Trans. EMB*, January 2007.
27. Kumar, Ajith P. C. & Ananthapadmanabha, T. V. (2006) Heart Rate Variability using Shannon Energy. *SASTECH Journal, MSRSAS* **5**, 23-26.
28. Krishna, J. (2006) Numerical Investigation on Conjugate Heat Transfer of Gas Turbine Disc Cavities. *Fluent Users conference 2006*.
29. Lakshminarayana, H. V. (2006). Fracture Mechanics. *ANSYS Users Conference 2006*.
30. Lakshmisha, V. S., Sridhara, S. N. & Nassar, A. (2005) Numerical Investigation of Fluid Flow in an Automotive Torque Converter. *SASTECH Journal, MSRSAS* **5**, 11-18.

31. Lakshmisha, V. S., Sridhara, S. N. & Nassar, A. (2007) Numerical Investigation of Fluid Flow in an Automotive Torque Converter, *International Symposium on Engineering Analysis and Simulation: Frontiers in FEM and CFD Practices*, Bangalore, 11 & 12 January 2007.
32. Mallikarjun, K., Singh, Sumer & Mishra, Manas R. (2007) Design of Bicycle for Indian Children Focusing on Aesthetic and Ergonomics. *SASTECH Journal, MSRSAS 6*, 91-96.
33. Mathew, S., Singh, Sumer & Nawle, Samrat. Design of REVA Electric Car Dashboard and Headlamp. *SASTECH Journal, MSRSAS 5*, 27-30.
34. Mathew, A. J., Sridhara, S. N. & Shankapal, S. R. (2006) Development of a Micro Gas Turbines- Part-2: Design and Performance Analysis of a Miniature Combustor. *Eight National Conference on Air-Breathing Engines and Aerospace Propulsion*, 12 to 14 December 2006, Puna.
35. Narang, K., Gnanamurthy, K. & Vijendran, R. (2007) Inventory Control in Car Seating System Assembly Line. *SASTECH Journal, MSRSAS 6*, 15-21.
36. Narayanaswamy, K. V. (2006) Optical Networks. *International Conference - Photonics 2006*.
37. Narayanaswamy, K. V. (2006) Multiple Attack Localization and Identification in All-Optical Networks. *SASTECH Journal, MSRSAS 5*, 69-71.
38. Nassar, A., Nagpurwala, Q. H. & Reddy, K. B. (2006) Optimisation Studies on Splitter Vane Position in a Back Swept Centrifugal Compressor Impeller. *National Conference on CFD Application in Power and Industry*, BHEL, Hyderabad, 17 & 18 November 2006.
39. Nassar, A., Nagpurwala, Q. H. & Reddy, Bramhananda K. (2006) Design and CFD investigation of Centrifugal Compressor for Turbocharger and Parametric Study on Splitter Blades. *SASTECH Journal, MSRSAS 5*, 35-41.
40. Palaniappan, Ganeshkumar & Pradeep, B. (2007) Design and Implementation of a Conference Server for Multiple Users. *SASTECH Journal, MSRSAS 6*, 79-85.
41. Patil, Archana P., Harshal S. & Shobha., B. N. (2007) Generation of Stereoscopic Images through Virtual Vehicle's Vision from Real Terrain Geometric Model. *SASTECH Journal, MSRSAS 6*, 9-14.
42. Poovanna, C. T. & Sridhara, S. N. (2006) Numerical Investigation of Droplet Distribution from Prefilming Airblast Atomizer. *SASTECH Journal, MSRSAS 5*, 42-45.
43. Poovanna, C. T. (2006) Numerical Investigation of Drop-size Distribution from a Prefilming Air-Blast Atomizer. *Fluent Users conference 2006*.
44. Poovanna, C. T. (2007) Studies on the Effect of Injection Pressure on a DI Diesel Engine Combustion and Numerical Simulation of Combustion in Twin Spark Ignition Engine. *International Symposium on Engineering Analysis and Simulation. Frontiers in FEM & CFD Practices*, 11 & 12 January 2007.

45. Prakash, P., Mishra, Manas R., Prabhu, Sri Krishna R. & Kumar, Abhay. (2007) Design & Development of Ultra Low Cost Water Purifier for Indian Rural Market. *SASTECH Journal, MSRSAS 6*, 86-90.
46. Raghavendra, Prabhu P. & Shankapal, S. R. (2006) Simulation of Effect of Suspension Geometry on Rollover, Squat and Dive Behaviour of a Sports Utility Vehicle. *SASTECH Journal, MSRSAS 5*, 1-11.
47. Rajarajan, R. & Vijay, B. V. (2007) Wind Turbine Aluminum Blade Structural Optimization by GENSIZ. *SASTECH Journal, MSRSAS 6*, 36-43.
48. Rakesh D. & Sridhara, S. N. (2007) Studies on the Air Flow Behaviour in an Intake Manifold of a Multi Cylinder SI Engine, *ANSYS Users Conference 2007*, Bangalore.
49. Ramaswamy, Karthikeyan B. & Kadambi, Govind R. (2007) Design and Simulation of Ultra Wide-Band Antenna for High Data Rate Applications. *SASTECH Journal, MSRSAS 6*, 102-108.
50. Rao, Srinivasa, Prakash R. & Rao, Mohan. (2006) Train Simulator for Testing the Digital Axle Counter under Simulated Conditions of Locomotive Movement. *SASTECH Journal, MSRSAS 5*, 46-51.
51. Rashmi, T. & Vijay, B. V. (2006) Bracket-Frame Topology Optimization With Gensolv. *SASTECH Journal, MSRSAS 5*, 19-22.
52. Reddy, K. B., Bhadur & Jagadeesh, K. (2006) Investigation of Resonance in Vacuum Pump used in Cotton Textile Industry. *ANSYS India Users Conference 2006*, 9 & 10 November 2006.
53. Savio, Rodrigues Ryan & Shilpa, C. (2007) Development of an Internet based Control Architecture for an Unmanned Robotic Arm. *SASTECH Journal, MSRSAS 6*, 52-60.
54. Singh, Sumer (2006) Living with Junks. *Conference on Sustainable Development*, 26 August 2006, MaxMuller Bhavan, New Delhi.
55. Singh, Sumer (2006) Trends for Solving Design Issues. *Conference on Recent Trends in Product Design*, 15 September 2006, DKTE's Textile and Engineering Institute, Ichalkaranji, Maharashtra.
56. Singh, Sumer & Ashok (2006) Killed by Plastics. *National Conference on Environment Conservation*, 1 to 3 September 2006, BITS Pilani.
57. Shankapal, S. R. (2006) Invited talk CAE. *Altair Users Conference*, Bangalore.
58. Shankapal, S. R. (2007) Invited talk. *NAFEMS conference*, 11 & 12 January 2007, MSRMIH, Bangalore.
59. Shivakumar, B. (2006) Numerical Prediction of Non-reacting Flow in Gas Turbine Afterburner. *Fluent Users Conference 2006*.
60. Sivapragasam, M., Sridhara, S. N., Deshpande, M. D. & Ramamurthy, S. (2007) Numerical and Experimental Investigation on Flow Distortion in an Aero Engine Air Intake. *SASTECH Journal, MSRSAS 6*, 28-35.

61. Shobha, B. N. (2006) Fusion of Multisensor Images using Multilevel Wavelets. *National Conference on Innovations in Information and Communication Technology*, 7 & 8 July 2006, PSG College of Engineering, Coimbatore.
62. Sreenivasa, T. N., Sridhara, S. N. & Pundarika, G. (2006) Experimental Investigation of Heat Transfer Characteristics of a Gravity Assisted Heat Pipe, *First International Conference on Frontier Technologies need for the Industry, Business and Education*, 6 to 8 September 2006, Adiamman College of Engineering, Hosur.
63. Sridhar, K. L., Nassar, A. & Nagpurwala, Q. H. (2007) Numerical Investigation on the Effect of Rotor Tip Contouring on an Axial Turbine Rotor. *SASTECH Journal, MSRSAS 6*, 22-27.
64. Swapna, O. E., Anil, K.B. & Mangalakumar, M. (2006) GPS Interfacing and Porting Linux Root File System for a Vehicle Tracking and Navigation System. *SASTECH Journal, MSRSAS 5*, 52-55.
65. Vijay, B. V. (2006) Machine Bed Weight Optimization by GENSIZ. *International Conference PLMSS-06*, 18 December 2006, IISc, Bangalore.
66. Vijay, V., Nagpurwala, Q. H. & Shankapal, S. R. (2006) Development of a Micro Gas Turbine – Part-3: Design and CFD Analysis of a Miniature Radial Turbine, Component Integration and Performance Analysis of Complete Micro Gas Turbine. *Eighth National Conference on Air-Breathing Engines & Aerospace Propulsion*, 12 to 14 December 2006.
67. Yamini, B. K., Sinha, S., Ananthapadmanabha, T. V., Shivashankar, N. & Taly, A. B. (2006) Acoustic Voice Analysis in Wilson's Disease. *Annual Conf. of Indian Academy of Neurology*. October 2006.