

## Faculty Publications

Name of the faculty: Dr SK Maharana

### A. Research Papers in journals (published, sent to publisher, in the pipeline, working paper)

Sl. No.	Title of the research paper	Journal (Name, Volume, Issue & Page Nos.)	Authors & Co authors	International/National	ISSN/ISBN&Country	Impact factor	H Index
1	A Numerical Study Of Multiphase Fluid Flow Across Two Heated Circular Cylinders In Tandem Arrangement	Int. Jou of Advanced Technology in Engineering and Science, Vol. 2, pp 81-88, 2014	B.K.Dhar, S.K Mahapatra, <b>S K Maharana</b> , A.Sarkar	<b>International</b>	<b>2348-7550</b>	<b>1.012</b>	
2	Advanced Technique for Bio-Medical Image Processing in Cloud Platform Using MATLAB	Indian Journal of Advances in Computer Sciences and Technology, Vol. 01, Issue 1, pp 37-46,2013	<b>S K Maharana</b> et al.	<b>National</b>	2249-3123		
3	Monte Carlo Simulation for Process Heat Cogeneration System	Indian Journal of Mechanical Engineering Research, Vol. 01, Issue 1, pp 23-34,2013	Shweta Agrawal , <b>S.K. Maharana</b>	<b>National</b>	2249-0019		
4	A Study of Cloud Computing for Retinal	International Journal of Cloud Applications and Computing	<b>S K Maharana</b> , Ganesh	<b>International</b>			

	Image Processing through MATLAB	Vol. 02, Issue 2, pp.60-67,2012	Prabhakar P, Amit Bhati				
5	Thermodynamic Performance Analysis Of A Combined Cycle System With Wet Compression	Journal of Engineering Science and Technology management, Vol. 01, Issue 2, pp.1-6 2012	Shweta Singhal, <b>S K Maharana</b>	International	<i>2277-5161</i>		
6	A Numerical Investigation of Interference Effect of flows over a Sloping Roof Structure and a Prismatic Building in Tandem Arrangement	International Journal of Applied Engineering Research, Vol. 05, Issue 20, pp.3311-3321, 2010	<b>S K Maharana</b> & A K Ghosh	International	<i>1087-1090</i>		
7	A Study of Interference Effect of wind flow over a Prismatic Building in side by side arrangement with a 'Hut' type structure using LES Method	International Journal of Applied Mathematics & Engineering Sciences, Vol. 06, Issue 16, pp. 56-66,2010	<b>S K Maharana</b> & A K Ghosh	International	<i>0973-5275</i>		
8	A Numerical Prediction of Interference Effect of flows over a Prismatic Building and a	International Journal of Applied Mathematics & Engineering Sciences, Vol. 4, No.2, pp.133-142, 2010	<b>S K Maharana</b> & A K Ghosh	International	<i>0973-5275</i>		

	Sloping Roof Structure in side-by-side arrangements using LES technique						
9	A numerical Study of Flow over a Sloping Roof Structure in Tandem Arrangement	Journal of Wind and Engineering , Vol. 01, pp. 53-59,2004	S K Maharana & A K Ghosh	National			
10	Numerical Simulation of Flow over successive buildings of square cross section	J. Wind Eng.Ind.Aerodyn, Vol. 67/68, pp.944,1997	S K Maharana & A K Ghosh	International			

### **B. Research Articles in Souvenirs (of conferences, seminars and others)**

<b>Sl. No.</b>	<b>Title of the Paper</b>	<b>Journal (Name, Volume, Issue &amp; Page Nos.)</b>	<b>Authors</b>	<b>International/National</b>	<b>ISSN/ISBN&amp;Country</b>
1	Thermal Analysis of VLSI chips using control volume method,	Proceedings of 7th International Conference on Advanced Computing and Communication Technologies (ICACCT™-2013) held in Nov 2013	Jayashree Dash, SK Maharana,	International	India
2	A numerical analysis of vortex-shedding phenomenon over a	Proceedings of 12th Americas Conference on Wind Engineering (12ACWE), Westin Seattle Hotel,	SK Maharana	International	USA

	sloping roof structure in tandem with a prismatic building	Seattle, Washington			
3	Numerical investigation on effectiveness of axially uniform and non-uniform tip clearance height on the performance of single stage transonic axial flow compressor	Proceedings of EUCASS, 5th European Conference for Aeronautics and Space Sciences (EUCASS 2013)	Pritam B, Dilip A, SK Maharana	International	
4	Numerical Optimization of Axially Non-uniform Tip Clearance Height on the Performance of Single Stage Transonic Axial Flow Compressor	Proceedings of ASME 2013 Gas Turbine India Conference (GTINDIA2013)	Pritam B, Dilip A, SK Maharana	International	India
5	Understanding of Unsteady Aerodynamics of an Insect Inspired Flapping wing MAV,	CSIR sponsored National Seminar on Application of Biotechnology and Insect Aerodynamics in Micro Aerial Vehicles, 11-12 Nov, 2011	SK Maharana, Somashekar	National	India
6	A Study of Cloud Computing Architecture to facilitate thermal characteristics of chips in Stack,	National Symposium on Instrumentation (NSI-35), January 7-9, 2011, Visvesvaraya Tech University, Karnataka, India	Vignesh Kumar V, Sunil J, S K Maharana, S K Parida	National	India
7	Proof of Concept of a Cloud Computing Architecture to compute Thermal characteristics of a Multi-chip Module (MCM)	First National Conference on Computational Control Systems and Optimization, CCSO 2011, 12 – 13 May 2011	Vignesh Kumar V, Sunil J, S K Maharana	National	India
8	Cloud Computing Network Explored for the	International Conference on Frontiers of Computer Science, 7-9	Praveen B Mali, Ganesh Prabhakar	International	India

	Computation of Thermal Characteristics of SIP	Aug, 2011, J.N. Tata Convention Centre, IISc, Bangalore	P, Sunil J, Vignesh Kumar V, S.K.Maharana		

**Name of the faculty: Somashekar V**

**A. Research Papers in journals (published, sent to publisher, in the pipeline, working paper)**

Sl. No.	Title of the research paper	Journal (Name, Volume, Issue & Page Nos.)	Authors & Co authors	International/National	ISSN/ISBN&Country	Impact factor	H Index
1	Numerical Analysis of Solar Flat Plate Collector for Circular Pipe Configuration by Using CFD	International Journal of Engineering Research and Technology, Dec-2013, Vol. 2, Issue. 12	Co-author	International	2278-0181	1.76	
2	CFD Simulation & Experimental Verification of Air Flow	IOSR Journal of Mechanical & Civil Engineering, Nov-Dec. 2013, Vol. 10, Issue. 3	Co-author	International	2278-1684	1.485	
3	Vibration Signature Analysis of IC Engine	International Journal of Innovative Research & Development, Dec. 2013, Vol. 2, Issue. 13	author	International	2278-0211	1.463	

4	Determination of Vibration Characteristics of Hypo & Hyper Eutectic " Al-Si" Alloys	International Journal of Engineering Research and Technology, Jan. 2014, Vol. 3, Issue. 1	author	International	2278-0181	1.76	
5	A computational investigation of Unsteady Aerodynamics of Insect-Inspired Fixed Wing Micro Aerial Vehicle's 2D Airfoil	Hindawi Publishing Corporation, Vol. 2014, Article ID: 504049	author	International	Article ID: 504049	1.644	
6	A computational Study of Unsteady Aerodynamics of A Fixed Wing Micro Aerial Vehicle	International Journal of Research In Aeronautical & Mechanical Engineering, May. 2014, Vol. 5, Issue. 5	author	International	2321-3051	0.875	
7	CFD Simulation and Experimental Verification of Air Flow through Heated Pipe (Revised)	International Journal of Engineering Sciences and Research Technology	author	International	Accepted	2.114	

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1	Applications of Open Source CFD Software's in Aerospace Industries	International Conference on Applied Engineering Science & Technology	Somashekar V	International	Submitted
2	Applications of Aerodynamic Software's in Aerospace Industries	International Conference on Information, Computation and Communications	Somashekar V	International	Accepted
3	Understanding of Unsteady	CSIR sponsored National Seminar on	Somashekar V	National	2011

	Aerodynamics of an Insect Inspired Flapping wing MAV	Application of Biotechnology and Insect Aerodynamics in Micro Aerial Vehicles			
4	Understanding of unsteady Aerodynamics of an insect inspired Flapping Wing MAV Poster	CSIR sponsored National Seminar on Application of Biotechnology and Insect Aerodynamics in Micro Aerial Vehicles	Somashekar V	National	2011
5	Possible flapping mechanisms & components of an insect-inspired Flapping Wing MAV Poster	CSIR sponsored National Seminar on Application of Biotechnology and Insect Aerodynamics in Micro Aerial Vehicles	Somashekar V	National	2011

**Name of the faculty: TRESA HARSHA P GEORGE**

**A. Research Papers in journals (published, sent to publisher, in the pipeline, working paper)**

Sl. No.	Title of the research paper	Journal (Name, Volume, Issue & Page Nos.)	Authors & Co authors	International/National	ISSN/ISBN&Country	Impact factor	H Index
1.	Reduction Of Turbine Induced Turbulence Using Riblets	Nehru International Journal Of Engineering and Technology (NIJET), Vol.1, No.1 March 2014, Page no: 7 -12	TRESA HARSHA P GEORGE&P KALEESHWARAN	INTERNATIONAL	ISSN: 2348-6007& INDIA	0.197	

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Sl. No.	Title of the Paper	Journal (Name, Volume, Issue & Page Nos.)	Authors	International/National	ISSN/ISBN&Country
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1.	Study Of Flow Characteristics Over Ribleted Turbine Blade Surface	International Conference On Emerging Trends In Engineering And Technology [Icetet'2014]	Tresa Harsha P George&P Kaleeshwaran	International	2348-6007& India
2	Flow Analysis Over Ribleted Turbine Blade	International Conference On Emerging Trends In Engineering And Technology [Icetet'2014]	Tresa Harsha P George,Prakash Kumar,John Britto& Parthasarathi A	International	2348-6007& India

**Name of the faculty: Swetha S**

**A. Research Papers in journals (published, sent to publisher, in the pipeline, working paper)**

Sl. No.	Title of the research paper	Journal (Name, Volume, Issue & Page Nos.)	Authors & Co authors	International/National	ISSN/ISBN&Country	Impact factor	H Index
1.	The effect of ceramic reinforcement on the Microstructure, Mechanical properties and Dry sliding wear behavior of hypo-eutectic Al-Si-Mg alloy	<b>International Journal of Innovative Research in Science, Engineering and Technology</b> <i>Vol. 2, Issue 3, March 2013</i>	Avinash L, M.H. Annaiah, Davis P skariah, Swetha S, Harendra Kumar H.V.	International	2319-8753 & India		
2	Effect of Injection Pressure on the performance and Emission characteristics of CI Engine using Jatropha curcus as Bio-Diesel with SC5D	<b>International Journal of Engineering Research and Application</b> 2248-9622 Vol 2 issue 3, 2012	CV Mahesh, ET Puttaiah, Swetha S	International	2248-9622		



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