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1	Examining the Effect of Blunt Leading Edge in Alteration of Flow Separation using Non-Equilibrium Flow Solver  Siddesh Desai*, Vinayak Kulkarni* & Hrishikesh Gadgil#	*Department of Mech. Engg, IIT Guwahati, Guwahati, Assam, India  #Department of Aero. Engg, IIT Bombay, Mumbai, Maharashtra, India
2	Spectral Analysis of Higher-Order Multilevel Method S. M. Joshi_ & A. Chatterjee <a href="mailto:smjoshi@aero.iitb.ac.in">smjoshi@aero.iitb.ac.in</a>	Department of Aerospace Engineering Indian Institute of Technology, Bombay Mumbai 400076, India
3	Application of numerical lifting line theory for swept wings with different aspect ratios  Manish Kr. Singh <sup>1</sup> , Partha Mondal <sup>2</sup> , Sudip Das <sup>3</sup> & Priyank Kumar <sup>4</sup> 1 Master's student  2 Assistant Professor: <a href="mailto:pmondal@gmail.com">pmondal@gmail.com</a>  3 Associate Professor  4 Assistant Professor	Department of Space Engg. and Rocketry, Birla Institute of Technology, Mesra, Ranchi-835215
4	Triggering Vortex Shedding over a Circular Cylinder using Wall Boundary Condition Perturbation  K. Manokaran *, M. Ramakrishna , and T. Jayachandran *Engineer, *Professor, *Deputy Director	*Vikram Sarabhai Space Centre, India,  <a href="mailto:Manoo_krish@yahoo.co.in">Manoo_krish@yahoo.co.in</a>  *Department of Aerospace Engineering, IIT Madras  *PRSO Entity, Vikram Sarabhai Space Centre, India
5	Numerical Investigation of Insect-sized Flapping Wings in Inclined stroke plane under the influence of Frontal Gust Manabendra M. De*, J S Mathur#, S Vengadesan * Ext. Ph.D Scholar, # Chief Scientist, § Professor,	*Applied Mechanics Dept., IIT M & Scientist, CSMST, CSIR-NAL, Bengaluru - 17, India  Applied Mechanics Dept., IIT M, Chennai, 600036, India <a href="mailto:manav@nal.res.in">manav@nal.res.in</a>
6	Computational Analysis on the Performance of Cambered Airfoils at Transitional Low Reynolds Numbers  C. Pranesh, M. Sivapragasam, M.D. Deshpande & H. K. Narahari	M. S. Ramaiah University of Applied Sciences Bengaluru-560 058, India  <a href="mailto:praneshc016.et.et@msruas.ac.in">praneshc016.et.et@msruas.ac.in</a>
7	Experimental and Numerical investigation of Heat Transfer Characteristics of Circular Jet Impinging on a Flat Plate  BALAKRISHNAN R* and K. ARUL PRAKASH,	Department of Applied Mechanics, IIT Madras Chennai  <a href="mailto:Am14m003@smail.iitm.ac.in">Am14m003@smail.iitm.ac.in</a> (Balakrishnan R* Tel.: 9488042638)

8	<p>Thermal Analysis Of Corrugated Afterburner Liner With Upstream Screech Hole Coolant Injection.</p> <p>1Niranjan P Meti, 2 Batchu Suresh, 3Kishore Kumar. S and 4U. S. Mallikarjun</p> <p>1Student, M.Tech, 2Scientist 'F', 3Retd Scientist, 4Professor,</p>	<p>1. SIT, Tumakuru, +91-9036275712 2. HTG, GTRE, DRDO 3. GTRE, DRDO, Bangalore, 4. Mech. Engineering Dept., SIT, Tumkur</p> <p>1 <a href="mailto:niranjan.meti047@gmail.com">niranjan.meti047@gmail.com</a> 2 <a href="mailto:batchusuresh71@gmail.com">batchusuresh71@gmail.com</a> 3 <a href="mailto:s.kihore.kumar2@gmail.com">s.kihore.kumar2@gmail.com</a> 4 <a href="mailto:usm_sit@yahoo.co.in">usm_sit@yahoo.co.in</a></p>
9	<p>Large Eddy Simulation of Lab-Scale Trapped Vortex Combustor</p> <p>Bappaditya Roy</p>	<p>Robert Bosch Engineering and Business Solutions, 1B, North Wing, Ecospace, Bangalore - 560103, India</p> <p><a href="mailto:bappaditya.roy@in.bosch.com">bappaditya.roy@in.bosch.com</a></p>
10	<p>Optimization using Meshless Methods with Automatic Point Generation</p> <p>Konark Arora Assistant Professor,</p>	<p>Amity Institute of Aerospace Engg. (AIAE), AMITY University, Noida, UP - 201303. <a href="mailto:konark.arora@gmail.com">konark.arora@gmail.com</a></p>
11	<p>Design and Analysis of Exhuast Diffuser of a Gas Turbine Afterburner using CFD</p> <p>1Vinod Kumar S Hiremath, 2Dr. S. Ganesan and 3Dr. R. Suresh</p> <p>1 M.Tech Student, 2 Scientist F, 3 Associate Professor,</p>	<p>1 SIT, Tumakuru 2 ABES, GTRE, Bangalore 3MechanicalEngineering Dept., SIT, Tumakuru</p> <p>1 <a href="mailto:hiremathvinod99@gmail.com">hiremathvinod99@gmail.com</a></p>
12	<p>Design and Analysis of Fuel Injection System in a Gas Turbine Afterburner using CFD</p> <p>Aravind N. Badiger<sup>1*</sup>, Dr.Ganesan S.<sup>2</sup>, Dr. Yogesha K.B.<sup>3</sup></p> <p><sup>1</sup>M.Tech student, <sup>2</sup>Scientist F, <sup>3</sup>Associate Professor</p>	<p>1 JSSATE, Bangalore 2 GTRE, Bangalore 3 JSSATE, Bangalore</p> <p>*<a href="mailto:aravindnb91@gmail.com">aravindnb91@gmail.com</a></p>
13	<p>Adiabatic Film Cooling Analysis over Cylindrical and Laidback Fan Shaped Hole Flat Plate Models</p> <p>1Dhulesh Mirje, 2Batchu Suresh, 3H R Purushothama</p> <p>1M.Tech student, 2 Scientist 'F', 3Associate Professor</p>	<p>1 SIT Tumakuru, 2HTG, GTRE, DRDO, <i>Corresponding author</i> 3 Mechanical Engineering Dept., SIT, Tumakuru,</p> <p>1 <a href="mailto:dhuleshmirje123@gmail.com">dhuleshmirje123@gmail.com</a> 2 <a href="mailto:batchusuresh71@gmail.com">batchusuresh71@gmail.com</a> 3 <a href="mailto:hrp_sit@yahoo.com">hrp_sit@yahoo.com</a> Contact No: 1+91-9742439774</p>
14	<p>Fairing Separation Studies using CFD at ground test conditions</p> <p>Mrinal Mahato, K.Anandhanarayanan, R. Krishnamurthy and Debasis Chakraborty Scientists</p>	<p>Defence Research and Development Laboratory, Hyderabad, India</p> <p><a href="mailto:mrinal.mahato.1912@gmail.com">mrinal.mahato.1912@gmail.com</a></p>
15	<p>Computational Study of Flame Acceleration in Obstacle Laden Channel: Effect of Obstacle Shape and Spacing</p> <p>Muralitharan S and Amit Kumar</p>	<p>Department of Aerospace Engineering, IIT Madras, Chennai – 600036, INDIA</p> <p><a href="mailto:muralitharan2789@gmail.com">muralitharan2789@gmail.com</a> <a href="mailto:amitk@ae.iitmadras.ac.in">amitk@ae.iitmadras.ac.in</a></p>

16	Simulation of High Enthalpy Flows without Riemann Problem Solvers  G Vijay Saida Babu, Jagadeeshwar Goshika,, Hrishikesh Gadgil, Kowsik Bodi	Department of Aerospace Engineering, Indian Institute of Technology, Bombay
17	Transonic aerodynamic characteristics of a typical rocket model with bulbous payload in accelerated flow  G. Kumaravel* and E. Rathakrishnan †	*Vikram Sarabhai Space Centre, India, <a href="mailto:gnanakumaravel@gmail.com">gnanakumaravel@gmail.com</a> †Department of Aerospace Engineering, IIT Kanpur
18	Mixed Convection Heat Transfer in Electrically Conductive Fluids  Pavan Kumar.P, Vipin.G.Bokade, <sup>3</sup> Prof.U.V.Bhandarkar <sup>4</sup> Prof.Kowsik Bodi	<sup>3</sup> Dept. of Mechanical Engineering, IIT Bombay.  <sup>4</sup> Dept. of Aerospace Engineering, IIT Bombay.
19	Parameteric study of the Performance of two-dimensional Scramjet Intake  V. Jagadish Babu, Pratikkumar Raje, Rachit Singh, Subhajit Roy and Krishnendu Sinha*	Department of Aerospace Engg., Indian Institute of Technology Bombay, Mumbai  *Corresponding author: <a href="mailto:krish@aero.iitb.ac.in">krish@aero.iitb.ac.in</a>
20	A Critical Comparison of RANS, LES, Hybrid LES/RANS and DNS Studies of the Flow Past a Low Pressure Turbine Blade in a Cascade  Rajesh Ranjan, S M Deshpande, Roddam Narasimha	Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore – 560064  <a href="mailto:rajesh@incasr.ac.in">rajesh@incasr.ac.in</a>
21	A DNS Study of a Transient Diabatic Plume as a Model for a Cumulus Cloud  Samrat Rao, P. Prasanth, S. M. Deshpande, Roddam Narasimha	Engineering Mechanics Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore – 560064 <a href="mailto:samrat.rao@gmail.com">samrat.rao@gmail.com</a>
22	Magnetohydrodynamic flow control of hypersonic blunt body flowfield involving real gas effects  R. Balasubramanian*, K. Anandhanarayanan, R. Krishnamurthy and Debasis Chakraborty	Directorate of Computational Dynamics Defence Research and Development Laboratory, Hyderabad, India. PIN code-500058. *Corresponding author- <a href="mailto:bals.cfd@gmail.com">bals.cfd@gmail.com</a> , Mob: +91-94909-56576
23	Aerobraking of reentry flight vehicle using Magnetohydrodynamics  R. Balasubramanian*, K. Anandhanarayanan, R. Krishnamurthy and Debasis Chakraborty	Directorate of Computational Dynamics Defence Research and Development Laboratory, Hyderabad, India. PIN code-500058. *Corresponding author. <a href="mailto:bals.cfd@gmail.com">bals.cfd@gmail.com</a> , Mob: +91-94909-56576
24	Validation of 3D Unstructured Grid Based Euler Solver Developed Using Common Framework For RAE Wing-Body Configuration  Vajjala Keshava Suman, Shikhar A. Jaiswal, Jyothi Kumar Puttam and V. Karthik	Computational & Theoretical Fluid Dynamics Division Council of Scientific and Industrial Research - National Aerospace Laboratories Bangalore - 560017, INDIA. Corresponding author e-mail: <a href="mailto:vksuman@ctfd.cmmacs.ernet.in">vksuman@ctfd.cmmacs.ernet.in</a>
25	Method of Kinetic Streamlined-Upwinding and its Variant for Ideal Magnetohydrodynamics  Ameya D. Jagtap Research Associate	Department of Aerospace Engineering, Indian Institute of Science, Bangalore 560012  <a href="mailto:ameya.aero@gmail.com">ameya.aero@gmail.com</a>
26	Numerical simulation of missile jet deflector  Soumyajit Saha, Souraseni Basu and	Directorate of Computational Dynamics, Defence Research and Development Laboratory (DRDL), Kanchanbagh,

	Debasis Chakraborty	Hyderabad-500058, India Tel: +91-40-24583310, Fax: +91-40-24340037, <a href="mailto:debasis_cfd@drdl.drdo.in">debasis_cfd@drdl.drdo.in</a>
27	Numerical Study on Mixing Phenomena in Supersonic Flows with Slot Injection  Malsur Dharavath, P. Manna and Debasis Chakraborty*	Defence Research and Development Laboratory, Kanchanbagh, Hyderabad-500058, India  Tel: +91-40-24583310, Fax: +91-40-24340037, Email*: <a href="mailto:debasis_cfd@drdl.drdo.in">debasis_cfd@drdl.drdo.in</a>
28	Cfd Analysys Of Pre-Cleaner With Axial Cyclone Filters  N Anshath Hussain *K. Arul Prakash	Department of Applied Mechanics, IIT Madras, Chennai  <a href="mailto:anshath4u@gmail.com">anshath4u@gmail.com</a> Tel.: 9037270969
29	Exhaust Jet Analysis during Booster Tail-off at Various Operating Temperatures  Afroz Javed and Debasis Chakraborty	Directorate of Computational Dynamics Defence Research and Development Laboratory, APJ Abdul Kalam Missile Complex, Hyderabad 500058
30	Optimization of Trapped Vortex Cavity for Airfoil Separation Control  Raman Chawla <sup>1</sup> , Manoj T Nair <sup>2</sup>	Department of Aerospace Engineering, Indian Institute of Space Science and Technology, Thiruvananthapuram, India <sup>1</sup> <a href="mailto:ramaniist@gmail.com">ramaniist@gmail.com</a> <sup>2</sup> <a href="mailto:manojtnair.iist@gmail.com">manojtnair.iist@gmail.com</a>
31	Numerical Investigation on the Effect of Jet Interaction on Aerodynamics of a Launch Vehicle  Sanjoy Kumar Saha	Aerodynamic Data Synthesis Division Vikram Sarabhai Space Centre, Thiruvanthapuram, India. ( <a href="mailto:sanjoy_kumar@vssc.gov.in">sanjoy_kumar@vssc.gov.in</a> , <a href="mailto:sanjoy254@gmail.com">sanjoy254@gmail.com</a> )
32	A Novel Kinetic Solver for Continuum and Rarefied Flow  Indranil Banerjee, Kamalesh Chandra Guha	Bhabha Atomic Research Centre,  <a href="mailto:banerjeei@yahoo.com">banerjeei@yahoo.com</a>
33	Numerical Analysis of Self Activating Flap for Separation Control on Airfoils  V. Harsha Vardhan Reddy, Manoj T. Nair	Department of Aerospace Engineering, Indian Institute of Space Science and Technology Trivandrum, 695547
34	Computational Analysis for Drag Reduction Using FishBAC Morphing Concept  R. Abishek*, Bhavesh Gulati and Jayanta Sinha#	Amity Institute of Aerospace Engineering Amity University, Uttar Pradesh  # <a href="mailto:jsinha1@amity.edu">jsinha1@amity.edu</a> * <a href="mailto:abishek4994@gmail.com">abishek4994@gmail.com</a>
35	Implementation of Asynchronous Scheme on Parallel Frameworks using MPI  Kumar Saurabh <sup>1</sup>	<sup>1</sup> Department of Mathematics, IIT Madras. <a href="mailto:ma14m004@smail.iitm.ac.in">ma14m004@smail.iitm.ac.in</a>  <sup>1</sup> Address: 184, Sant Hussain Nagar, Shivpur Shahbajganj, Gorakhpur.
36	Numerical Analysis of Pulse Detonation Engine with Shchelkin Spiral Geometry for its Effects of Pre- Detonation Chamber Properties with Varying Mass Flow Rates Using Hydrogen/Air Mixture  C T Dheeraj Kumar Singh <sup>1*</sup> , Dr Gurunadh Velidi <sup>2</sup> , Karthik Sundarraj <sup>3</sup> , Dr Prakash S Kulkarni <sup>4</sup>  <sup>1*</sup> M. Tech, <sup>2</sup> Assistant Professor, <sup>3</sup> Technical Manager, <sup>4</sup> Cheif Research Scientist	<sup>1</sup> Computational Fluid Dynamics, UPES, Email: <a href="mailto:dheerajsingh14@stu.upes.ac.in">dheerajsingh14@stu.upes.ac.in</a>  <sup>2</sup> Aerospace Department, UPES, Dehradun.  <sup>3</sup> CFD, ARK Infosolutions, Bangalore.  <sup>4</sup> CML Lab, IISC, Bangalore

37	Intake Performance Studies for a Generic Fighter Aircraft Configuration  Mohan M, Rakesh R, N Om Prakashraj, Pankaj Gandhi, Anil Nanduri	Aeronautical Development Agency, Ministry of Defence, Govt. of India
38	Aerodynamic shape optimization of a low speed aerofoil through novel parameterization techniques  Perachiselvi, Pankaj Gandhi, N Om Prakash Raj	Aeronautical Development Agency, Ministry of Defence, Govt. of India
39	Role Of Stator Orientation In Single Stage Axial Flow Compressor  Albin Baby, S Satish Kumar	Propulsion Division, CSIR-NAL, Bangalore, India - 560037
40	Computational study of aerodynamic interference flowfield at high speeds  Prabhakaran. G., Ajinkya Maskey and Naresh Kumarz	Computational and Theoretical Fluid Dynamics Division CSIR-National Aerospace Laboratories, Bangalore, India <a href="mailto:naresh@ctfd.cmmacs.ernet.in">naresh@ctfd.cmmacs.ernet.in</a>
41	Numerical Study On Porous Medium For Cooling  Mahesh Kumar N <sup>1</sup> , P S Kulkarni <sup>2</sup>  <sup>1</sup> Research student, <sup>2</sup> Chief Research Scientist,	<sup>1</sup> CML Lab, Department of Aerospace Engineering, IISc, Bengaluru, India  <sup>2</sup> CML Lab, Department of Aerospace Engineering, IISc, Bengaluru, India. <a href="mailto:mkmahesh81@gmail.com">mkmahesh81@gmail.com</a> <a href="mailto:psk@aero.iisc.ernet.in">psk@aero.iisc.ernet.in</a>
42	Parallel 3D UGKS for simulation of Continuum and Rarefied flows  Lokesh Kumar Ragta, Balaji Srinivasan, Sawan S. Sinha	Applied Mechanics Department, Indian Institute of Technology-Delhi, Hauz Khas, Delhi, India  <a href="mailto:lokeshragta.id@gmail.com">lokeshragta.id@gmail.com</a>
43	Computation of flow over Delta Wing with fuselage using SU2 Karthik V., K. Madhu Babu, Manish K. Singh*	corresponding author: <a href="mailto:mksingh@nal.res.in">mksingh@nal.res.in</a>
44	Heterogeneously parallelized solver for DNS of compressible turbulence using GKM  Nishant Parashar*, Balaji Srinivasan, and Sawan S. Sinha	Department of Applied Mechanics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016  *Corresponding author: <a href="mailto:nishantparashar14@gmail.com">nishantparashar14@gmail.com</a>
45	Simulation of flow past an airship using Partially-averaged Navier Stokes  Sagar Saroha, Sawan S. Sinha and Balaji Srinivasan	Department of Applied Mechanics, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016  Corresponding author: <a href="mailto:sagarsaroha18@gmail.com">sagarsaroha18@gmail.com</a>
46	Fluid Dynamic Interaction of Tip Leakage and Secondary Flow in a Low Aspect Ratio Transonic Axial Compressor Stage  Ayesha Khan, S. Subbaramu and Q.H. Nagpurwala*	M.S. Ramaiah University of Applied Sciences, Bengaluru 560058, India (*Corresponding Author: <a href="mailto:nagpurwala.aae.et@msruas.ac.in">nagpurwala.aae.et@msruas.ac.in</a> )
47	A Sharp-Interface Immersed Boundary Method for High-Speed Compressible flows  Shuvayan Brahmachary*, Ganesh Natarajan*, Vinayak Kulkarni*, Niranjana Sahoo*	*Department of Mechanical Engineering, Indian Institute of Technology, Guwahati 781039, India  1 Author for correspondence: <a href="mailto:b.shuvayan@iitg.ernet.in">b.shuvayan@iitg.ernet.in</a>

48	A two-dimensional hybrid transform for analysis of scale interactions in the atmosphere  T. N. Venkatesh, Asha V. and Arshad Shameem C.	Aerospace Weather Research Group, CTFD Division, CSIR-National Aerospace Laboratories, PB-1779, Kodihalli, Bangalore-17, e-mail: tnv@nal.res.in
49	Open loop control of cavity flows using reduced order Models  Kaushik Kumar Nagarajan a, Sintu Singha a	National Aerospace Laboratories, Bengaluru
50	Performance Characteristics of the Supersonic Nozzle of a 10 N class Pulsed Microthruster employed for Satellite Orbital Corrections  K Vijaya Sankaran +, GUS Athith +, Shambhoo *, M Janaki Rami Reddy*, H.S. Raghukumar*, C. Rajashekar*	* Propulsion Division, CSIR-National Aerospace Laboratories, Bangalore 560017, India  +Department of Aeronautical Engineering, PARK College of Engg. and Technology (affiliated to the Anna University, Chennai), Coimbatore, India.  1Corresponding author Address: Propulsion Division, CSIR-NAL, Bangalore 560017, India  1 <a href="mailto:rajashekar@nal.res.in">rajashekar@nal.res.in</a>
51	Numerical Simulation Of The Liquid Flow In A Pulsed Fuel Injection System For Triggering Combustion Instabilities In A Developmental Aero-Gas Turbine Afterburner  S. Chenthil Kumar*, G. Sriram*, Shambhoo*, H.S. Raghukumar*, M. Janaki Rami Reddy*, C. Rajashekar*1, K Ashirvadam#, And J J Isaac*	* CSIR-National Aerospace Laboratories, Propulsion Division, Bangalore 560017, India  # Gas Turbine Research Establishment, Bangalore 560093, India 1 Corresponding author Address: Propulsion Division, CSIR-NAL, Bangalore 560017, India  1 E-mail : <a href="mailto:rajashekar@nal.res.in">rajashekar@nal.res.in</a>
52	Parametric optimization for aerodynamic design of a high subsonic / transonic wing  Kandasamy S <sup>*</sup> , Jayaprakash K <sup>+</sup> , Debkumar Ghosh <sup>†</sup> , J Umakant <sup>‡</sup>	Defence Research & Development Organisation, Hyderabad, India, PIN – 500069 <a href="mailto:kandasamy.s@rcilab.in">kandasamy.s@rcilab.in</a>
53	Aft-body optimization of a Generic Fighter Aircraft for Supersonic Drag reduction  Pratheek T G, Ramkumar B, N Om Prakash Raj, Sreeja S Kumar, Mrunalini B, Keerthi M	Aeronautical Development Agency, Ministry of Defence, Govt. of India
54	CFD studies with nose chine and fuselage strake on a generic fighter aircraft  Neeraj. S, Libin. G, Kuldeep. R. J, Pathanjali.R.J+, Muralidhar.M++,	Aeronautical Development Agency, Bangalore, India <a href="mailto:pathanaero@gmail.com">pathanaero@gmail.com</a> , Pathanjali. R. J, ADA, Bangalore  ++ <a href="mailto:muralidhar.aerospace@gmail.com">muralidhar.aerospace@gmail.com</a> , Muralidhar Madhusudan, ADA, Bangalore
55	Ground Effects from CFD and Flight Test for a generic fighter aircraft  Shibin., Manju. A, Shardha Devi, Pathanjali.R.J+, Muralidhar.M++	Aeronautical Development Agency, Bangalore, India <a href="mailto:pathanaero@gmail.com">pathanaero@gmail.com</a> , Pathanjali, ADA, B'lore  ++ <a href="mailto:muralidhar.aerospace@gmail.com">muralidhar.aerospace@gmail.com</a> , Muralidhar Madhusudan, ADA, B'lore
56	Design of fuel tank of a generic fighter aircraft constrained by its influence on neighboring store	Aeronautical Development Agency, Bangalore, India <a href="mailto:pathanaero@gmail.com">pathanaero@gmail.com</a> , Pathanjali. R. J, ADA, Bangalore

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57	Effect Of Arrangement Of Weapons On Zero-Lift Drag Of An Aircraft Keerthi M, Sreeja S, Mrunalini B	Aeronautical Development Agency, Bangalore <a href="mailto:keerthi@jetmail.ada.gov.in">keerthi@jetmail.ada.gov.in</a> <a href="mailto:sreeja@jetmail.ada.gov.in">sreeja@jetmail.ada.gov.in</a> <a href="mailto:mrunalini@jetmail.ada.gov.in">mrunalini@jetmail.ada.gov.in</a>
58	CFD investigation of longitudinal characteristics of a compound delta wing fighter aircraft in Transonic regimes Sreeja S, Keerthi M, Pratheek TG, Sabari Girish S, Mrunalini B	Aeronautical Development Agency, Bangalore e-mail id: <a href="mailto:sreeja@jetmail.ada.gov.in">sreeja@jetmail.ada.gov.in</a> <a href="mailto:keerthi@jetmail.ada.gov.in">keerthi@jetmail.ada.gov.in</a> <a href="mailto:pratheeek@jetmail.ada.gov.in">pratheeek@jetmail.ada.gov.in</a> <a href="mailto:girish@jetmail.ada.gov.in">girish@jetmail.ada.gov.in</a> <a href="mailto:mrunalini@jetmail.ada.gov.in">mrunalini@jetmail.ada.gov.in</a>
59	An improved clear-air turbulence index using a non-local approach Arshad Shameem C., J. Saravanakumar and T. N. Venkatesh	CTFD Division, CSIR-National Aerospace Laboratories, Bengaluru- 560017, e-mail: <a href="mailto:arshad.tnv@nal.res.in">arshad.tnv@nal.res.in</a>
60	Simulations of ow past multiple high-rise buildings using OpenFOAM, K Veena, V Asha, C Arshad Shameem, T N Venkatesh	CTFD Division, CSIR-National Aerospace Laboratories, Bengaluru- 560017 <a href="mailto:aarya.vjs@gmail.com">aarya.vjs@gmail.com</a> , <a href="mailto:tnv@nal.res.in">tnv@nal.res.in</a>
61	Time Domain Flutter Analysis of the AGARD 445.6 Wing Vasanth Dhanagopal1, T. Varghese Mathew2 and Sharanappa V. Sajjan3	Computational and Theoretical Fluid Dynamics Division, CSIR-National Aerospace Laboratories, Bangalor 560017, India <a href="mailto:svsajjan@ctfd.cmmacs.ernet.in">svsajjan@ctfd.cmmacs.ernet.in</a>
62	Development of a General Purpose CFD Code: 'Unified CFD Solver' for Aerospace Applications Aaditya N. Chaphalkar, Harichand M.V., Pankaj Priyadarshi, V. Ashok	Aerodynamic Design and Data Synthesis Division Vikram Sarabhai Space Centre, Thiruvanthapuram, India. ( <a href="mailto:aaditya_chaphalkar@vssc.gov.in">aaditya_chaphalkar@vssc.gov.in</a> , <a href="mailto:aaditya.chaphalkar@gmail.com">aaditya.chaphalkar@gmail.com</a> )
63	Aerodynamic interference effect on a winged body due to supersonic lateral jet in hypersonic flow G Vidya and KManokaran	Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram, India ( <a href="mailto:g_vidya@vssc.gov.in">g_vidya@vssc.gov.in</a> )
64	Numerical And Experimental Studies Of Launch Vehicle Local Aerodynamics With Boundary Layer Trip  Juluri S, S Vinay Kumar#, S Epuri, and Dr. Patil M M	Sci./Engr, Vikram Sarabhai Space Centre, Trivandrum  #Sci./Engr, Semi-Conductors Laboratory, Chandigarh, Punjab.  Patil Malakarjun Mahadeo [ <a href="mailto:mm_patil@vssc.gov.in">mm_patil@vssc.gov.in</a> ]