

CURRICULUM VITAE

Dr. B. Murali Krishna,
FIE, M. Tech (NIT Warangal), MBA (AU), PhD (IIT Madras),
CMI (UK), PG-CSE (NIT Nagpur).

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Career Objective:

I, with strong belief in hard work and sincerity; committed to apply my knowledge and skills with full dedication to deliver high performance, contribute to institutional excellence and sustained long term growth of the organization.

Summary:

Accomplished academic leader with over **26 years** of experience in engineering education, research, and academic administration, including more than **15 years of service as Professor and Principal**. PhD holder from the Indian Institute of Technology Madras (**IIT Madras**). Selected among 50 Principals from private and government engineering and management institutions across India for the prestigious *Further Education Leadership Development Programme* conducted by **AICTE through UKIERI** (UK–India Education and Research Initiative).

Education:

- PhD from Department of Mechanical Engineering, **Indian Institute of Technology Madras, Chennai**, in the year 2010 with **8.5 CGPA**.
- Post graduation-AICTE Certificate Programme in **CSE (Data Science-DS & Data Analytics-DA)** from **VNIT Nagpur**, in the year 2025 with **9 CGPA**.
- Post graduation in **Thermal Engineering** (Design and Production of Internal Combustion Engines and Gas Turbines) from **NIT Warangal**, in the year 2000 with **72%**.
- Post graduation in Business Administration (HRM) - **executive MBA** from **AU**, Visakhapatnam, India, in the year 2018.

- Graduation in Mechanical Engineering, from **Institution of Engineers (India)**, Calcutta, in the year 1998 with **6 CGPA**.
- International Certification (**UK**) - **CMI** (Chartered Management Institute) and Award in Management and Leadership through AICTE-UKIERI.

Experience:

- At Present, working for Avanthi Institute of Engg. & Technology (*Autonomous*), VSP to VZM highway, AP, India as a **Professor & Principal**.
- Worked for Sanketika Institute of Technology and Mgt., Visakhapatnam, AP as a **Professor** and **Principal** since 27th December 2019 to 9th March 2021.
- Worked for NSRIT (formerly named as VITS), Visakhapatnam, AP, India as a **Professor** and **Principal** since 16th Nov 2012 to 07th January 2015.
- Worked for Sri Sivani College of Engineering, Srikakulam, AP as a **Professor** and **Principal** since 08th July 2010 to 15th Nov 2012 & 8th Jan 2015 to 24th Dec. 2019.
- Worked for **GMR** Institute of Technology (**GMRIT**), Rajam, AP, India with various designations started from **Asst. Prof.** to **Professor** and **HOD** in the Dept. of Mechanical Engg., since 10th January 2004 to 07th July 2010.
- Worked for VITAM College of Engineering, Parvatipuram, AP, India as an **Asst. Prof.** in the Dept. of Mech. Engg. since 20th Sep. 2001 to 09th Jan. 2004.
- Worked for Greaves Limited, Aurangabad, MH, India as an **Engineer- R&D** since 2nd May 2000 to 13th Sep. 2001.

Research Publications: 97 (List enclosed)

- **International:** Journals-**33** (*including 2 communicated*) *Published*, Conferences-**29**.
- **National:** Journals-**4** *Published* and Conferences-**21**
- **Articles Published (International): 06**
- **Book/ book Chapters Published :03**
- **Web of Science:08**
<https://www.webofscience.com/wos/author/record/HCI-7323-2022>
- **Scopus: 15**
<https://www.scopus.com/authid/detail.uri?authorId=57350074400>
- **Google Scholar:**
<https://scholar.google.com/citations?user=8onRDIAAAAJ&hl=en>

- **ORCID iD:**
<https://orcid.org/0000-0002-9089-7354>
- Patents Applied: 02, Published Patents:01

Countries visited: London and Paris for presenting research work

- To present a paper at World Congress on Engineering-WCE, Imperial South Kensington Campus, **London**.
- To present a paper at World Academy of Science and Engineering Technology, **Paris**.

In Industry [Greaves limited]:

- Design, analysis, testing and development of single cylinder four-stroke air-cooled and water-cooled diesel engines.
- Testing and Development of engines at **Automotive Research Associate of India** (ARAI), Pune to meet Euro Emission norms.

Funded Projects and Workshops involved:

- Title of project “Experimental and numerical investigations on cold flow of gasoline direct injection engine (GDI) using Particle Image Velocimetry”, at I.C Engines Lab, Dept. of Mechanical Engg., **Indian Institute of Technology Madras**; sponsored by DST, India (18 Lakhs).
- Title of project “Establishment of flow visualization facility-Particle Image Velocimetry”, at I.C Engines Lab, Dept. of Mechanical Engg., **Indian Institute of Technology Madras**, sponsored by DST, India (150 Lakhs).
- Organized IIIT-DM Kurnool and E&ICT Academy-NIT Warangal -sponsored FDP on “Sustainable Energy Systems: AI Driven Innovations in Design and Applications” during 17th- 22nd Feb.2025 (1 Lakh).
- Organized IIIT-DM Kurnool and E&ICT Academy-NIT Warangal -sponsored FDP on “Unmanned Aerial Systems (UAS): Design, Development and Deployment” during 10th- 15th Feb.2025 (1 Lakh).
- Organized AICTE-sponsored-ATAL Online Faculty Development Programme (FDP) “Hydrogen Energy Systems for a Clean and Green Future” during 13th-18th October 2025 (1 Lakh).

- Organized AICTE-sponsored VAANI 3-Day Workshop (Offline Mode) on “Hydrogen Energy in Indian Languages: Awareness and Innovation” during 9th-11th November 2025 (3 Lakh).

Resource person (*Invited Speaker*):

- A seminar on “Research Collaboration-a Vital Need for Real Impact”, Organized by Research committee of Engg. Dept. and **IEEE** student branch of UTAS-University of Technology and Applied Sciences-AI Mussanah, **OMAN** on 19th March.2024.
- 2-Day Workshop on “Renewable Energy Utilization for Sustainable Growth, REUSE-2023”, Organized by Dept. of Mechanical Engg., Indian Institute of Petroleum and Energy (**IPE**), Visakhapatnam on 25th & 26th August 2023.
- 5-Day FDP on “Advances in thermal energy systems, organized by SASI Engg. College, affiliated to JNTUK, Kakinada, 11th -15th Nov, 2019.
- 3-Day Workshops on “Advances in image processing and visualization techniques (AIPVT-2015), Organized by SSCE on 30th & 31st Nov, 2015.
- 2-Day Workshops on “I.C Engines and Advance”, Organized by GATE Engg. College, affiliated to JNTU Hyd. on 15th & 16th February 2015.
- For several Workshops, Conferences, FDPs, Awareness Programmes, Technical Events and Fests as Speaker, Chief Guest, Special Guest, Advisory member, Chair and President.

NPTL Certifications: Star Certified from IIT Madras.

- Python for Data Science
- Artificial Intelligence: Concepts and Techniques
- Introduction to Machine Learning
- Machine Learning and Deep Learning-Fundamentals and Applications
- Introduction to Quantum Computing: Quantum Algorithms and Qiskit.

Workshops/STTPs: 15+

1]. Participated in Intellectual Property awareness program (online), Organized by Intellectual Property Office-IPO, India on October 03, 2023.

2]. Participated for one-week STTPs (**05 no.**) through ICT mode on “i). Outcome based education and accreditation, during 24th-28th Sep.2018; ii). Organizational behavior, during 12th-16thNov.2018; iii). Problem based learning, during 11th-15th Feb.2019; iv). Evaluating student’s performance and designing question papers during 25thFeb-01st Mar.2019; v). Measurement and control for industrial automation, during 11th-15thMar.2019” Organized by **NITTTR** Kolkata,

3]. Workshops (**04 no.**) on “Further Education Leadership Development Programme” Organized by **AICTE-UKERI** i). during 28th - 30th June, 2017 at **NITTTR** Chennai, TN; ii). during 31st July-2nd August, 2017 at **CV Raman College of Engineering**, Bhubaneswar, Orissa, iii). during 4th-6th October, 2017, at **SKIT**, Jaipur, Rajasthan and iv). during 12th -14th January, 2018 at **SP College of Engineering**, Mumbai, MH.

4]. Round table conference of vice chancellors of technical universities on “Innovations in Engineering Education with Global Perspective a Blended Approach” organized by **JNTUK in association of Indian universities**, held during 22-23 September 2015.

5]. Workshop on “Redesigning of Engineering Curriculum in the Context of Outcome Based Learning” organized by **JNTUK**, held during 24-25 Feb. 2013.

6]. Continuing education programme on “Finite Elements in Analysis and Design using ANSYS (FEAD-ANSYS-2007)” during Aug.28-Sep.01, 2007, Organized by Department of Mechanical and Civil Engineering, **Indian Institute of Technology Madras**, Chennai.

7]. International Pre-Conference workshop on “Environmental Management (Air Pollution Control Technologies”, during 27th-30th October 2005, Organized by Institute of Science and Technology, Centre for Environment, **JNTU, Hyderabad**.

Scholar Ships / Grants Received:

- Grant from **IIT Madras** to present paper at World Congress on Engineering (WCE’09), London-UK.
- Grant from **IIT Madras-Alumni** to present a paper at World academy of science and engineering technology-2009, **Paris**.

- **AICTE scholarship** during PhD at IIT Madras.
- **GATE scholarship** during M. Tech at NIT Warangal.
- **Research grant** from Automotive Research Association of India (ARAI), Pune.
- **AICTE Grant** for participation of Workshops on “Further Education Leadership Development Prog. (*FELDP*)” organized by AICTE-UKERI, **India** and **UK Govt.**

Research/Teaching Interests:

- Thermal Engineering, Thermodynamics, Internal Combustion Engines and Pollution, In-cylinder Flow studies, Image processing, Alternate Fuels, Renewable energies, Automobile Engineering, Fluid Mechanics, Power Plant Engineering etc.
- **PhD thesis:** entitled with “Studies on In-Cylinder Tumble Flows in an Unfired Internal Combustion Engine Using Particle Image Velocimetry”.
- **M.Tech thesis:** entitled with “Assessment of Torsional Vibration Characteristics of I.C Engines and Treaties to minimize them”.
- **UG thesis:** entitled with “Design and Fabrication of Flywheel of I.C Engine”.

Professional Activities/memberships:

- **Life member**-The International Association of engineers [*IAENG-102604*]
- **Life member**-The Institute of Engineers, [*IE (India)-FIE No: F-118166-8*].
- **Life member**-The Indian Society for Technical Education (ISTE).
- **Life member**-The Int. Scientific Academy of Engg. and Technology (ISAET)
- **Life member**-The Int. Association of Computer Science and Inf.Tech. (IACSIT).
- **Life member** - Green ThinkerZs society [*GT2014RM076*]
- **Silver membership**-Int. Association of Research and Developed Org. (IARDO).
- **Reviewer**-The American Society of Mech. Engineers (ASME) and few more
- **Editorial Board Member**-I2OR, IJRECE & TRJ.
- **Chairman and Advisory Board Member** for conferences and technical events.
- **CMI member**- Chartered Management Institute, UK [*P04557172*]
- **Life member**-Int. Society for Development and Sustainability [*ISDS- M008025*]

- **Nodal Officer**-for Spoken Tutorial, IIT-Bombay.
- **Program Chair**-for **Springer Int. Conference** Soft Computing in Data Analytics (SCDA-2018) organized by Sri Sivani College of Engineering, Srikakulam on 10th & 11th March, 2018.
- **Editor for Springer Proceedings:** International Conference on Soft Computing in Data Analytics (SCDA-2018), *Book Series: Advances in Intelligent Systems and Computing*.
- **Scientific Committee Member**-Eminent Association of Researchers in Civil & Environmental Engg (EARCEE) under Eminent Association of Pioneers (EAP)
- **Chair for the Session**-"Intelligent System and Control" of **Springer International Conference**, Soft Computing in Data Analytics (SCDA-2018) organized by Sri Sivani College of Engineering, Srikakulam on 10th & 11th March, 2018.

Other accomplishments:

- **NPTEL Star Believer award** received from IIT Madras, India, Dec.2025.
- **Excellence in Leadership and Professional Development award** received from the Council for Skills and Competencies (CSC), NITI AAYOG Regd.Gov. of India on September 15th, 2024.
- **Life Time Achievement award**-received from *three esteemed Padmasri Awardees*-Padmasri Dr. B L Deekshatulu, Padmasri Dr. A. Sai Baba Goud, Padmasri Manjula Anagani at National Level Awards Ceremony & Celebration of Excellence on March 2nd, 2024, AIMER Society, CMR Technical Campus, Hyderabad.
- **Bhishma Acharya award** from the Vice-Chancellor, Andhra University, organized by Bharat Education Excellent Award-BEEA, Brainovision Solutions on 21st April, 2024.
- **Best Engineer award**-received from Institution of Engineers (India), Calcutta at VSP-Chapter on 15.09.2024.
- **Best paper award nomination:** 1 among 8 nominated from 874 papers received for World congress on Engineering (**WCE-2009**) which is single platform for 16 International conferences held at Imperial campus, London.
- **Outstanding Researcher award** from association of **Green ThinkerZs, NIITTR-Chandigarh, I2OR and IIT Bombay**.
- **Best Indian Educationist award** with **Gold Medal** received from honorable former Governor of Sikkim Sri.Randhir Singh at a National Seminar on "Economic Growth & National Unity" conferred by FFI (a social and voluntary forum), held at India International Centre, New Delhi on 28th August 2016.
- **Academic Leadership award** received from I2OR, NITTR Chandigarh and IIT Bombay, MHRD, Govt of India in association with Green ThinkerZ Society, India.

- **Bharat Excellence award** with **Gold Medal** received from honorable former Governor of Sikkim Sri.Randhir Singh at a National Seminar on “Economic Growth & National Unity” conferred by FFI (a social and voluntary forum), held at India International Centre, New Delhi on 28th August 2016.
- Selected for **Indira Gandhi Gold medal** award by Global Economic Progress and Research Association.
- **Appreciation Certificate/Letter** from **IIT Bombay**, for outstanding contribution of implementation/using ICT based teaching and learning methodology for students; played a part in fastest growing **NMEICT Project-National Mission on Education through ICT, funded by MHRD, Govt. of India.**
- Selected for **National Award of Excellence** award by Glacier journal research foundation and Global Management Council.
- Selected for **Indian Global Golden** and **Sparkling Indian** awards by the Indian institute of global brotherhood.
- **Selected** for **AICTE-UKIERI** Further Education Leadership Development Programme (FELDP), **one among 50** shortlisted out of **1058** nominations received at India level.
- **CMI (Chartered Management Institute) International Certification and Award in Management and Leadership** through **AICTE-UKIERI.**
- **Best Researcher Award**, from International Organization of Scientific Research and Development (IOSRD), Chennai.
- Certificate of Participation and Award from **Election Commission of India** in formation of Human chain Ashoka Chakra as **World Record.**
- **Award of Excellence** received from International Association of Research and Developed Organization (IARDO) in association with Gurukul Institute of Engineering & Technology, Kota, India at International Award Conference on Multidisciplinary Research and Latest Innovation held at The International Centre Goa (India) on 28th October 2018.
- **CSI – Institutional Award**
- Familiarity with **NBA and NAAC** accreditation Procedures and works.
- **JNTUK - Ratified Principal/Head of Institution.**
- **JNTUK - Recognized Research Supervisor.**
- **JNTUK - One PhD Research Candidate Awarded.**
- **Experience of facing committees/teams:** JNTUK FFC, AP Govt. Task Forces, AFRC, APHERMC, ISO, AICTE, NBA, NAAC etc.
- **MoUs:** made at Institutional level with IIT Bombay, NIT Warangal, NITTTR Calcutta, TCS, APSSDC, CMs SEC, CEMS etc.

Social Activities done (massive):

- One week Programme-CTAW

- Voter awareness programme-HAC-World record
- ROAD-survey and safety-AP Govt.
- Blood donation camps-gold medal from Governor
- Eye and Dent- awareness programs
- Donating funds and cloths-poor-needy
- Eternal Programmes-Ethics-Moral
- Mass plantation programme
- Swatch-Bharat Programme
- Working in association with RIMS/Red/Cross/other societies.

Best practices carried:

- NIT Warangal, IIT Bombay, NPTL Certification courses for Students & Staff.
- NIT Warangal, IIT Bombay, IIITD Kurnool MOUs
- NPTL Videos-establishment of MRC
- ECAP-student and parent update
- Effective Counseling System
- Special SEP Program for students etc.

Institution Achievements & Recognitions:

- India book of record through AICTE & Brainovision Solutions for contribution in conducting National level FDP.
- World book of records, Eduskills-students internship active participation
- Awarded as one of the Top 5 Best performing colleges-Smart Internz & APSCH @ JNTU Kakinada, AP.
- Nominated for Bharth Education Excellence College Awards-BEEA-AICTE.
- Accredited with A+ by NAAC with CGPA 3.38/4
- Permanently Affiliated to JNTUK, JNTU-GV
- Recognized by UGC under section 2(f)&2(B)
- Autonomous Institution- recognized by UGC
- AIET-BSNL- Incubation Centre
- Member of JKC of A.P. State Gov. with Star Status
- 'A' Grade by AP Knowledge Mission-Consistent
- JNTUK, Kakinada examination Nodal Center
- Member of ISTE, CSI, IETE, IEI
- Nodal Center of Virtual Lab-NITK-Initiative of Ministry of Education

- JNTUGV- CSE, ECE and ME recognized research centers
- Centers of Excellence: Infosys, Springboard, EDU Skills, CSS Corp., APSCHE, PEGA.
- APSSDC-CM's Skill Excellent Centre
- Identified as MSME Host Institution
- DST-GITAM University for research collaboration
- Internships: Edu skills, Edu experts, Aptroid, Effetronics, Bandrix, NTPC, Vizag Steel Plant, HSL, BHEL etc.

LIST OF PUBLICATIONS:

I. INTERNATIONAL JOURNALS

1. **Murali Krishna. B, Sasidhar.G, Ramu.G, Prasad.V.V.S, Rao.Y.K.S,** An Experimental Approach and Artificial Neural Networks used to Analyse the Performance and Emission Characteristics of a Diesel Engine Running on Azadirachta Indica Biodiesel Containing Copper Oxide (CUO) Nanoparticles, *JFUEL-D-25-12068*, **ELSEVIER**, Submitted on Oct.23, 2025 (*Communicated*).
2. **Ramu.G, Prasad.V.V.S, Jaikumar.S Murali Krishna.B,** Experimental response surface methods to analyse the performance a diesel engine on A.I biodiesel containing CUO nanoparticles, *International Journal of Environmental Science and Technology*, **SPRINGER**, Submitted on July11th, 2024 (*Communicated*).
3. **Murali Krishna. B,** DICI Engine with Diesel and CNSL Biodiesel Fuel as Biodegradable Substitute: Alternative and Renewable Fuel, *International Journal of Social Ecology and Sustainable Development (IJSESD)* 13(1), 2022, Vol.13, Issue.1, Article: 20, Pages: 11, ISSN: 1947.8402, EISSN: 1947.8410, EISB N13: 9781683181989, DOI:10.4018, IJSESD.287120, **SCOPUS, INSPEC**.
4. **Anitha Santhoshi. M, Murali Krishna. B and Swami Naidu. G,** Electric Discharge Machining of AA2024 with specific wt% of Red mud Hybrid Composites, *International Journal of Materials Today Proceedings* 39, PP.1390-1395, June 2020, DOI: 10.1016/J.MATPR.2020.04.866, ISSN/EISSN:1369-7021/1873-4103, **WoS, SCI Expanded, SCOPUS, INSPEC**.
5. **Bala Bhaskara Rao. J, B. Murali Krishna and K.Narendra,** Influence of Double Elliptical Leaf Angle with Same Orientation and Direction to Evaluate Thermal Performance in Double Pipe Heat Exchanger, **Springer International Journal of Lecture Notes In Mechanical Engineering**, doi.org/10.1007/978-981-15-2696-145, pg.457-465, Mar.2020, EISSN: 2195-4364, ISSN: 2195-4356, **SCOPUS**.
6. **Murali Krishna. B,** Experimental Investigations on CI Engine with Hydrogen Peroxide as an Alternative, *Global Journal of Researchers in Engineering*, Vol.20, Issue1, version1, Jan-Feb.2020, Online ISSN: 2249-4596 & Print ISSN: 0975-5861, pg. 37-41, J-Gate, Cite Factor, **InfoBase Index**, OAJ Indexing, Open Access, **Google Scholar, EBSCO**.

7. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cyclic Variations of In-Cylinder Flows Analysis Through image processing using Visualization Technique, *International Journal of Computational Intelligence and Informatics*, Vol.9, Issue1, June 2019, ISSN: 2231-0258, pg.23-27, **Indexed ROAD**.
8. **Anitha Santhoshi. M, Murali Krishna. B** and **Swami Naidu. G**, Experimental Investigations on Wear Behaviour of AA2024-Flyash-Nanostructured Red mud Hybrid Composites Synthesized by Stir casting, *International Journal of Surface Engineering and Interdisciplinary Materials Science*, Vol.6, Issue 2, July-Dec. 2018, DOI:10.4018/IJSEIMS.2018070102, pg.23-35, ISSN: 21667225/EISSN: 2166-7233, **SCOPUS, INSPEC**.
9. **Murali Krishna. B** and **J. M. Mallikarjuna**, Tumble Flow Studies using Flat, Flat with bowl, Inclined and Inclined with bowl Pistons for Suitability of Stratified Internal Combustion Engine, *Academia Journal of Scientific Research* 6(8): 312-320, August 2018, DOI:10.15413/AJSR.2018.0141, ISSN-2315-7712, pg.312-320, Cross Mark, **DOAJ**, open J-GATE, SLUB, CABI, **Cross Ref, Google Scholar, EBSCO**.
10. **Chitti Babu. V, Murali Krishna. B, Govinda Rao. P** and **Santa Rao. K**, Design of Accurate Steering Gear Mechanism, *International Journal of Mechanics and Mechanical Engineering*, Vol. 22, No. 1 (2018) pg.93-103, ISSN:1428-1511, EISSN:2354-0192, **SCIMAGO (SJR), Google Scholar, SCOPUS, EBSCO**
11. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cold Flow Study at Combustion Space for Engine Low Emissions using Different Pistons, *International Journal of 'The research journal (TRJ)-A unit of Int. Institute of Organised Research- I2OR*, Vol.3, Issue 6, Nov-Dec 2017, ISSN:2454-7301, EISSN:2454-4930, JIFACTOR, SJIF, DRJI, GIF, **Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar**.
12. **Murali Krishna. B**, Renewable CSO-Diesel blend: a partial substitute and Smoke reduction fuel for DI Diesel engines, *International Journal of 'The research journal (TRJ)-A unit of International Institute of Organised Research- I2OR*, Vol.2, Issue6, Nov-Dec 2016, ISSN:2454-7301, EISSN:2454-4930, pg.36-39, JIFACTOR, SJIF, DRJI, GIF, **Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar**.
13. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cold Flow Study at 330 CAD for Control of Emission with Different Intake Manifolds of a Single Cylinder Internal Combustion Engine, *International Journal of 'The research journal (TRJ)-A unit of International Institute of Organised Research- I2OR*, Vol.2, Issue6, Nov-Dec 2016, ISSN:2454-7301, EISSN:2454-4930, pg.23-26, JIFACTOR, SJIF, DRJI, GIF, **Index Copernicus International, IIFS, Research Bible, Research Gate, DOAJ, Cite Factor, Google Scholar**.
14. **Murali Krishna. B**, DI Diesel engine fuelled with transesterified CSO and water emulsion-an experimental study, *International Journal of Technological Advances and Scientific Research*, DOI: 10.14260/jtasr/2016/31 EISSN-2454-1788, ISSN- 2395-5600, Vol. 2, Issue 04, Oct-Dec. 2016, Pg.172-176, Info base Indexed, J-Gate, Copernicus, **Google Scholar**.

15. **Murali Krishna. B**, Influence of Shroud Intake Valve on Performance and Exhaust Emissions of a Diesel Engine-An Experimental Approach, *International Journal of 'The research journal (TRJ)'*-A unit of International Institute of Organised Research- I2OR, Vol.2, Issue2, Mar-Apr 2016, ISSN: 2454-7301, EISSN:2454-4930,pg.106-109,JIFACTOR, SJIF, DRJI, GIF, **Index Copernicus International**, IIFS, Research Bible, Research Gate, **DOAJ**, **Cite Factor**, **Google Scholar**.
16. **Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Investigations on In-cylinder Flows of Engine with Intake Shrouded Valve, *International Journal of Engineering Technology, Management and Applied Sci.*, Vol.3, Special Issue, Nov.2015, ISSN 2349-4476, pg.85-91, **Indexed in DIIF**.
17. **Murali Krishna. B** and **J. M. Mallikarjuna**, Non-intrusive PIV Experiments and In-Cylinder Flow Structure Analysis of a Unfired Engine Equipped with Inclined Pistons, *International Journal of Engineering Technology Science and Research*, EISSN-2394-3386, **UGC Approved, Indexed in DIIF**.
18. **Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Investigation on Tumble Motion During Cold Flow of Engine Equipped with Bowl Piston, *International Journal of Advanced Research in Science and Engg*, Vol.No.4, Issue 11, Nov.2015, ISSN 2319-8354, pg.79-88, **UGC Approved S.No.:47721**.
19. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Manifold Inclination on an Unfired Engine Equipped with Flat Piston Using Non-Intrusive Technique - Experimental Flow Structure Analysis, *Journal of Basic and Applied Engineering Research*, EISSN: 2350-0255, Vol.No.2, Issue 21, October-Dec.2015, pg.1804-1809, **Cosmos IF:4.24**,
20. **Murali Krishna. B** and **J. M. Mallikarjuna**, PIV Experiments and In-Cylinder Flow Structure Analysis of a Motored Engine Equipped with Inclined Crown Pistons, *International Journal of Engineering Technology Management and Applied Sciences*, ISSN-2349-4476, Vol.3, Special Issue, September 2015, Pg.130-139, Indexed in DIIF.
21. **Murali Krishna. B.**, **P. Ramesh Babu** and **S. Sanyasi Rao**, Experimental analysis on Performance Improvement of Diesel Engine Utilizing Water Gas, *International Journal and Magazine of Engineering, Technology, Management and Research*, ISSN:2348-4845, July 2015, Vol.2, Issue7, Pg.92-97, **IJIF:3.55**, **IARC IF:1.02**
22. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Manifold Inclination on Motored Engine Equipped with Flat Piston Using PIV Technique - Experimental Flow Structure Analysis, *Journal of Aeronautical and Automotive Engineering*, ISSN: 2393-8579, EISSN:2393-8587, Vol.1, Sep. 2014, **Cosmos IF:3.69**.
23. **Murali Krishna. B** and **J. M. Mallikarjuna**, In-cylinder Tumble Flow Analysis in a Motored Engine using PIV Technique, *International Journal of green energy, energy and environment (IJGEEE)*-ISSN 0976-2515, Vol.-1, No.2, July 2010, pp.239-37.
24. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Engine Speed on In-cylinder Tumble Flows in a Motored Internal Combustion Engine-An Experimental Investigation Using Particle Image Velocimetry, *International*

Journal of Applied Fluid Mechanics, Vol.4, No.1, July 2010, ISSN:1735-3572, EISSN:1735-3645, **WoS, EBSCO, Thomson Reuters, SCOPUS, SCI Expanded**.

25. **Murali Krishna. B and J. M. Mallikarjuna**, Characterization of Flow through the Intake Valve of a Single Cylinder Engine Using Particle Image Velocimetry, *International Journal of Applied Fluid Mechanics*, Vol.3, No.2, July 2010, pp.23-32, ISSN:1735-3572, EISSN:1735-3645, **WoS**, Cite Score, InfoBase IBI, **EBSCO**, ISI, **Thomson Reuters, SCI Expanded, SCOPUS**.
26. **Murali Krishna. B and J. M. Mallikarjuna**, Comparative Study of In-Cylinder Tumble Flows in an Internal Combustion Engine Using Different Piston Shapes -An Insight Using Particle Image Velocimetry, *International Journal of Experiments in Fluids*, Published by **Springer** Nature, DOI 10.1007/S00348-009-0783-6, ISSN/EISSN:0723-4864 / 1432-1114, May 2010, Vol. 48, Issue 5, pp 863-874, **WoS, SCOPUS, SCI Expanded**.
27. **Murali Krishna, B and J. M. Mallikarjuna**, Effect of Manifold Orientation on Non-Reacting In-Cylinder Tumble Flows in an IC Engine with Pent-roof Piston-An Investigation using PIV, *SAE International Journal of Materials and Manufacturing*, 3(1):597607, V1195EJ, <https://doi.org/10.4271/2010010956>, **SAE** Paper:2010-01-0956, SP-2295, April 2010, ISSN:1946-3979, EISSN:1946-3987, **WoS, Emerging SCI, SCOPUS**.
28. **Murali Krishna. B., A. Bijucherian and J. M. Mallikarjuna**, Effect of Intake Manifold Inclination on Intake Valve Flow Characteristics of a Single Cylinder Engine using PIV, *Int. Journal of Engg. and Applied Sciences* 6:2 2010, pg.119-125, ISSN:2394-3661, Open J Gate, Directory of Research Journal Indexing, NISCIR, Cross Ref, DOI, **Indexed by DOAJ, Google Scholar, SCOPUS**.
29. **Murali Krishna. B and J. M. Mallikarjuna**, Properties and Performance of Cotton Seed Oil-Diesel Blends as a Fuel, *Journal of Renewable and Sustainable Energy, American Institute of Physics (AIP) publications*, Vol.1, 023106, 2009, <https://doi.org/10.1063/1.3117342>, ISSN /EISSN: 1941-7012, **WoS, Thomson Reuters, SCOPUS, SCI Expanded**.
30. **Murali Krishna, B and J. M. Mallikarjuna**, Effect of Intake Manifold Orientation on In-Cylinder Tumble Flow Structure in an Internal Combustion Engine-an Analysis using Particle Image Velocimetry, ISSN: 0148-7191, EISSN: 2688-3627, <https://doi.org/10.4271/2009-28-0004>, **SAE Paper** No. 2009-28-0004, Dec.13, 2009, published by **ARAI**.
31. **Murali Krishna. B and J. M. Mallikarjuna**, Effect of Cavity in a Pent-roof Piston on the Engine In-cylinder Tumble Flows-An Investigation by Particle Image Velocimetry, *International Journal of Engineering Letters*, Vol. 17, Issue 3, pp 195-199, 2009, ISSN:1816-093X, EISSN:1816-0948, **WoS, Thomson Reuters, SCOPUS, Emerging SCI (WoS)**.
32. **Murali Krishna. B and J. M. Mallikarjuna**, Tumble flow analysis in an unfired engine using Particle Image Velocimetry, *International Journal of Mechanical, Industrial and Aerospace Sciences*, Vol.3, No:6, 2009, pg. 707.712, ISSN:2517995, **WASET.org/1999.8/8168**, doi.org/10.5281/zenodo.1070387, **Semantic Scholar, Zenedo, BASE, WorldCAT, Sherpa/RoMEO, International Science Index (ISI), Google Scholar**.

33. **Murali Krishna. B** and **J. M. Mallikarjuna**, Renewable Bio-Diesel from CSO-a Fuel Option for Diesel Engines, *Proceedings of ASME International Solar Energy Conference*, Published 2007, Indexed: 2007-01-01,pg.485-497, <https://doi.org/10.1115/ISEC2006-99051>, ISBN:0-7918-4745-4, **WoS**.

II. NATIONAL JOURNALS

1. **Murali Krishna. B** and **T.Nikhil**, Direct Injection Compression Ignition Engine with Diesel and CNSO-Biodiesel to meet Energy and Environment Demand, *Journal of Thermal Energy Systems* EISSN: 2582-5747 Vol.5, Issue-3 (Sep-Dec., 2020), Page 14-21, **J-Gate**, Figshare, **Google Scholar**, Cite,**Crossref** Factor, Zenodo, Scientific Indexing Services,Root Indexing.
2. **Murali Krishna.B** and **R.Jyothish Kumar**, Experimental Investigation on CI Engine using Diesel-CNSL-Ethanol as a Renewable Alternate Fuel, *Journal of Automation and Automobile Engineering*, e-ISSN: 2582-3159 Volume-5, Issue-2 (May-August, 2020), Page 1-6, **J-Gate**, Figshare, **Google Scholar**, Cite,**Crossref** Factor, Zenodo, Scientific Indexing Services,Root Indexing.
3. **Murali Krishna. B** and **S.Yasodhar**, CNSL Biodiesel-Diesel Blend and Water Emulsion as a Renewable Fuel for CI Engines, *Journal of Thermal Energy Systems*, e-ISSN: 2582-5747 Volume-5, Issue-2 (May-August, 2020), Page 11-17, **J-Gate**, Figshare, **Google Scholar**, Cite,**Crossref** Factor, Zenodo, Scientific Indexing Services,Root Indexing.
4. **Murali Krishna. B** and **J. M. Mallikarjuna**, In-Cylinder Tumble Flow in a Motored I.C Engine (Flat Piston)- Experimental Investigation using Particle Image Velocimetry, *Journal of Institution of Engineers, India*, Vol. 90, ISSN: 0020-3408, Oct. 2009.

III. INTERNATIONAL CONFERENCES

1. **Bala Bhaskara Rao. J**, **B. Murali Krishna** and **K. Narendra**, Evaluation of Thermal Analysis in Double Pipe Heat Exchanger with three Elliptical Shaped Leaf Strips at Different Inclinations with Same Orientation and Direction, **SCOPUS Indexed Springer Proceedings of International Conference on “Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2019)”** during 17-18 May2019, held at NIT, Rourkela.
2. **Bala Bhaskara Rao. J**, **B. Murali Krishna** and **K. Narendra**, Influence of Double Elliptical Leaf Angle with Same Orientation and Direction to Evaluate Thermal Performance in Double Pipe Heat Exchanger, **SCOPUS Indexed Springer Proceedings of International Conference on “Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2019)”** during 17-18 May2019, held at NIT, Rourkela.
3. **Bala Bhaskara Rao. J**, **B. Murali Krishna** and **K. Narendra**, Experimental and Numerical Analysis of Double Pipe Heat Exchanger with Different Leaf Angle Strips to Fluctuate Heat Transfer and Pressure Drop, **SCOPUS Indexed Springer Proceedings of International Conference on “Innovative Product Design and Intelligent Manufacturing Systems (ICIPDIMS-2019)”** during 17-18 May2019, held at NIT, Rourkela.

4. **Murali Krishna. B** and **J. M. Mallikarjuna**, Analysis of Cyclic Variations of In-cylinder flows in an IC Engine by Experimental Visualisation Technique, *Proceedings of 3rd International Conference on "Digitization, Innovation and Disruption: Keys to Achieving Global Competitiveness (ICDID 2K18)"* on September 15, 2018, held at GL Bajaj Institute of Management & Research (GLBIMR), Greater Noida.
5. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cold Flow Study at Combustion Space for Engine Low Emissions using Different Pistons, *Proceedings of International Conference on Interdisciplinary Research for Sustainable Development (IRSD-2017 held at NITTTR Chandigarh, India on 6-7 Nov. 2017, Organized by Green ThinkerZ Society in association with IIT Bombay, NITTTR Chandigarh and International Institute of Organized Research (I2OR).*
6. **Murali Krishna. B**, Renewable CSO-Diesel blend: A Partial Substitute and Smoke Reduction Fuel for DI Diesel engines, *Proceedings of International Conference on Interdisciplinary Research for Sustainable Development (IRSD 2016), held at NITTTR Chandigarh on 1-2 December 2016 Organized by Green ThinkerZ Society in association with IIT Bombay, NITTTR Chandigarh, Int. Institute of Organized Research (I2OR) and Green Clues.*
7. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cold Flow Study at 330 CAD for Control of Emission with Different Intake Manifolds of a Single Cylinder Internal Combustion Engine, *Proceedings of International Conference on Interdisciplinary Research for Sustainable Development (IRSD-2016), held at NITTTR Chandigarh, India on 1-2 December 2016 Organized by Green ThinkerZ Society in association with IIT Bombay, NITTTR Chandigarh, Int. Institute of Organized Research (I2OR) and Green Clues.*
8. **Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Study on Tumble Flows of an Engine using Flat, Flat with bowl, Inclined and Inclined with bowl Pistons Using PIV, 2nd International Conference-American Society of Thermal and Fluids Engineers (ASTFE), April 2-5, 2017, Las Vegas, Nevada, USA.
9. **Murali Krishna. B**, Influence of Shroud Intake Valve on Performance and Exhaust Emissions of a Diesel Engine-An Experimental Approach, *Proceedings of International Conference on Recent Trends and Developments in Environmental Sustainability (RTDES 2016), 20th May 2016, Organized by Environment Matters, National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh, India.*
10. **Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Investigations on In-cylinder Flows of Engine with Intake Shrouded Valve, *Proceedings of International Conference on Latest Trends in Engineering Science and Management (LTESM-15), Proceedings of Pearson with ISBN 978-93-325-7023-8, 22nd Novembe2015, Jawaharlal Nehru University, JNU Convention Center, New Delhi, India, pg.565-572.*
11. **Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental Investigation on Tumble Motion during Cold Flow of Engine Equipped with Bowl Piston, *Proceedings of 2nd International Conference on Recent Innovations in Science, Engineering and Management, 22nd Novembe2015, Jawaharlal*

Nehru University, JNU Convention Center, New Delhi, India, (*ICRISEM*) ISBN: 978-81-931039-9-9.

12. **Murali Krishna. B** and **J. M. Mallikarjuna**, PIV Experiments and In-Cylinder Flow Structure Analysis of a Motored Engine Equipped with Inclined Crown Pistons, *Proceedings of International Conference on Innovative Research in Engineering, Science and Management (ESM-15), Proceedings of Tata Macgraw Hills*, ISBN(13):978-93-85880-71-1, ISBN(10):93-85880-71-3, Vol.1 September 20th, 2015 Jawaharlal Nehru University, JNU Convention Center, New Delhi, India, pg.232-241.
13. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Manifold Inclination on an Unfired Engine Equipped with Flat Piston Using Non-Intrusive Technique - Experimental Flow Structure Analysis, *Proceedings of 10th International Conference on Advances in Mechanical, Material Science, Manufacturing, Automobile, Aerospace Engineering and Applied Physics (AMAEAP-2015)*, 5th and 6th September, 2015, Jawaharlal Nehru University, New Delhi, India.
14. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Intake valve Shroud and its Position on In-cylinder Tumble Flows in an Unfired Internal Combustion Engine-an Experimental Investigation using Particle Image Velocimetry, *Proceedings of 8th ASPACC (Asia-Pacific Conference on Combustion-8TH-ASPACC-2010)*, 10-13 Dec 2010, Hyd., India, pp.536-543.
15. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Compression Ratio on In-Cylinder Tumble Flows in an Unfired Internal Combustion Engine - An Experimental Study Using Particle Image Velocimetry, *Proceedings of 11th Asian Symposium on Visualization (ASV)*, during 5th -9th June-2011, Niigata, Japan.
16. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Manifold Orientation on Non-Reacting In-Cylinder Tumble Flows in an IC Engine with Pentroof Piston-An Investigation using PIV, *SAE World Cong. 2010*, April 12th -15th, 2010, Detroit, USA.
17. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cycle-by-Cycle Variation in an Internal Combustion Engine-An Analysis using Particle Image Velocimetry, *Proceedings of the 10th Asian Symposium on Visualization*, March 1st -5th, 2010, Chennai, India.
18. **Murali Krishna. B** and **J. M. Mallikarjuna**, Tumble Flows in Gasoline Direct Injection Engine-A Study Using Particle Image Velocimetry, *Proceedings of International Conference on Applications and Design in Mechanical Engineering (ICADME 2009)*, Oct 11th-13rd, 2009, Penang, Malaysia.
19. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Cavity in a Pentroof Piston on the Engine In-cylinder Tumble Flows-An Investigation by Particle Image Velocimetry, *Proceedings of World Congress on Engg*, July 1st -3rd, 2009, London, UK
20. **Murali Krishna. B** and **J. M. Mallikarjuna**, Tumble flow analysis in an unfired engine using Particle Image Velocimetry, *Proceedings of World Academy of Science, Engg and Technology*, Vol. 54, ISSN 2070-3724, June 24th -26th, 2009, Paris, France,

21. **Murali Krishna. B., A. Biju Cherian and J. M. Mallikarjuna**, Effect of manifold inclination on Intake Valve Flow Characteristics of a single cylinder engine using Particle Image Velocimetry, *Proceedings of World Academy of Science, Engg and Technology* (PWASET), Vol. 34, ISSN 2070-3740, Oct 2008, Italy.
22. **Murali Krishna. B and J. M. Mallikarjuna**, Effect of Engine Speed on Intake Valve Flow Characteristics of a Diesel Engine- An Analysis Using Particle Image Velocimetry, *Proceedings of First International Conference on Emerging Trends in Engineering and Technology* (ICETET2008), ISBN:978-0-7695-3267-7/08 © 2008 **IEEE**, PP:1071-1076, July 16th-18th, 2008, Nagpur.
23. **Murali Krishna. B and J. M. Mallikarjuna**, Flow Through Intake Valve of a Direct Injection Diesel Engine-A Preliminary Study Using Particle Image Velocimetry, *Proceedings of International Conference on Mechanical Engineering* (ICME2008), Johor Bahru, Malaysia, May 21st-23rd, 2008.
24. **Murali Krishna. B and J. M. Mallikarjuna**, Optical Diagnosis of Flow through the Intake Valve in a Direct Injection Diesel Engine, *Proceedings of 15th ISME International Conference on New Horizons of Mechanical Engineering (ISME-2008)*, March 18th -20th, 2008, Bhopal, India.
25. **Murali Krishna. B and J. M. Mallikarjuna**, Intake Valve Flow Analysis in a Direct Injection Diesel Engine Using Particle Image Velocimetry, *Proceedings of 2nd International Conference on Recent Advances in Experimental Fluid Mechanics* (RAEFM-2008), March 3rd-6th, 2008, KLC, Vijayawada, India.
26. **Murali Krishna. B and J. M. Mallikarjuna**, The use of CSO in direct injection diesel engine as an alternative fuel, *Proceedings of Int. Conf. on Biofuels Vision (ICBFV2006)*, Engineering College, Bikaner (Rajasthan), India. 13th - 15th October 2006
27. **Murali Krishna. B and J. M. Mallikarjuna**, Renewable Bio-diesel from CSO- A fuel option for Diesel Engines, *Proceedings of ASME International Solar Energy Conference*, 8th -13th July 2006, Denver, ISBN:0-7918-4745-4, Paper No: ISEC 2006-99051.
28. **Murali Krishna. B**, Performance evaluation of single cylinder diesel engine using Bio-diesel (from CSO) as an alternative fuel, *Proceedings of 14th ISME International conference on Mechanical Engineering in Knowledge Age*, Delhi college of Engineering, Delhi 12th -14th December 2005.
29. **Murali Krishna. B**, Bio-diesel from CSO-An option for reducing smoke levels in Diesel Engine, *Proceedings of International Conference on Environmental Management (ICEM-2005)*, JNTU, Hyderabad, 28th- 30th October 2005.

IV. NATIONAL CONFERENCES

1. **Murali Krishna. B and J. M. Mallikarjuna**, Visualization Technique for Tumble Flow Studies of Stratified Engine with Proposed Pistons, *Proceedings of Virtual National Conference on Advances in Engineering, Management and Sciences (NCAEMS-2020)*, [ISBN 978-81-945588-5-9], Organized by Department of Mechanical Engg, Santhiram Engineering College, Nandyal, A.P on 13th June 2020.

2. **Murali Krishna. B** and **J. M. Mallikarjuna**, Cashew Nut Shell Liquid and Diesel Blends as Alternative Fuel for Diesel run Engines–An Experimental Study, *4th National Convention on Hydrogen Energy and Advanced Materials (NCHEAM-2015)*, November 28-29, 2015 organised by MA NIT Bhopal, India in Association with University of Kerala and Hydrogen Energy and Advanced Materials Scientist & Scholar.
3. **Murali Krishna. B** and **J. M. Mallikarjuna**, Development of Environment Friendly Engines through Analysis of Tumble Flow, Tumble Ratio and Turbulent Kinetic Energy of Engine-An Experimental Investigation, *4th National Convention on Hydrogen Energy and Advanced Materials (NCHEAM-2015)*, November 28-29, 2015 organised by MA NIT Bhopal, India in Association with University of Kerala and Hydrogen Energy and Advanced Materials Scientist & Scholar.
4. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of Intake Manifold Orientation on In-Cylinder Tumble Flow Structure in an Internal Combustion Engine – An Analysis Using Particle Image Velocimetry, *Proceedings of SAEINDIA Mobility Conf.*, Dec 2009, Chennai, India, *SAE Technical Paper 2009-28-0004*, 2009, doi:10.4271/2009-28-0004.
5. **Murali Krishna. B** and **J. M. Mallikarjuna**, Experimental In-Cylinder Flow Structure Analysis of Engine with Pentroof-Offset-Bowl Piston: Effect of Intake Manifold Orientation, *21st National Conference on IC Engines and Combustion*, Dec 2009, Davanagere, India.
6. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect on In-Cylinder Tumble Flows with Intake Manifold Orientations-An Analysis with PIV, *XVI National Conference on IC Engines and Combustion (NCICE2009)*, Dec 2009, Davanagere, India.
7. **Murali Krishna. B** and **J. M. Mallikarjuna**, Engine In-Cylinder Tumble Flows-A Study Using Particle Image Velocimetry, *National Conference on New Advances in Thermal Design, Material and Manufacturing Engineering (NATDMME–09)* March 5-7, 2009, Malnad College of Engg, Hassan, India.
8. **Murali Krishna. B** and **J. M. Mallikarjuna**, Effect of rubber damper on reduction of torsional vibrations of six cylinder diesel engine, *National Conference on state of art of technologies in Mech. Engg.*, (NCSAME-06), JNTU, Hyderabad, 5th-6th May 2006.
9. **Murali Krishna. B** and **J. M. Mallikarjuna**, Determination of properties of prospective Biodiesel fuel for diesel engines, *National Conference on State of Art of Technologies in Mechanical Engineering (NCSAME-2006)*, May 5th-6th 2006, JNTU College of Engineering, Hyderabad, AP.
10. **Murali Krishna. B**, CATCON-An immediate solution to reduce exhaust emissions of I.C Engines, *Proceedings of the National conference on Advances in Mechanical Engg. (AIME-2006)*, Jamia Milla Islamia, New Delhi, Jan 20th-21st 2006.
11. **Murali Krishna. B**, Effect of Nozzle hole shape on the performance of single cylinder Direct Injection Diesel Engine, *Proceedings of the National*

Conference on Computer Applications in Mechanical Engineering (CAME-2005), JNTU College of Engineering, Ananthapur, 21st December 2005.

- 12. Murali Krishna. B**, HFC-Power for future automobiles, selected for *National conference on emerging technologies and Applications (ETA-2005)*, Computer Science Department of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1st-2nd October 2005.
- 13. Murali Krishna. B**, Review on never end low emission alternative fuels for Internal Combustion Engines, selected for *National conference on emerging technologies and Applications (ETA-2005)*, Computer Science Dept. of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1st-2nd October 2005.
- 14. Murali Krishna. B**, Production of renewable hydrogen fuel from water using NCES for a clean future, selected for *National conference on emerging technologies and Applications (ETA-2005)*, Computer Science Department of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1st-2nd October 2005.
- 15. Murali Krishna. B**, Energy conservation in boiler application through efficient utilization of steam, selected for *National conference on emerging technologies and Applications (ETA-2005)*, Computer Science Department of Saurashtra University, Rajkoti and Amoghsidhi education society, Sangli, 1st-2nd October 2005.
- 16. Murali Krishna. B**, An analytical approach to solve torsional vibration problem of multi cylinder I.C engines, *Proceedings of the National Conference on Computational Methods in Mechanical Engineering (COMPUTIME-2005)* at Osmania University, Hyderabad, 16th -17th September 2005.
- 17. Murali Krishna. B**, Role of 'SIT' in performance of single cylinder Direct Injection Diesel Engine, *Proceedings of the National Conference on Advances in Mechanical Engineering AIM-2005*, Vasavi college of engineering, Hyderabad 13th-14th May 2005.
- 18. Murali Krishna. B**, Effect of injection timing on diesel engine performance, selected for *National level technical paper presentation competition-2005*, S.V.Institute of computer studies, Kadi (Gujarat) and Amoghsidhi education society, Sangli (Maharashtra), 8th-9th January 2005.
- 19. Murali Krishna. B**, A review on electronic sensors and control systems-for new era automobile engines, selected for *National level technical paper presentation competition-2005*, S.V.Institute of computer studies, Kadi (Gujarat) and Amoghsidhi education society, Sangli (Maharashtra), 8th-9th January 2005.
- 20. Murali Krishna. B**, Establishment and Validation of mathematical model to assess and treat torsional vibrations of I.C engines, selected for *National level technical paper presentation competition-2005*, S.V.Institute of computer studies, Kadi (Gujarat) and Amoghsidhi education society, Sangli (Maharashtra), 8th-9th January 2005.

- 21. Murali Krishna. B,** Development of mathematical model – A key technique to assess and treat torsional vibrations of I.C engines”, *Proceedings of the National Seminar on Role of NDE in Modern Maintenance Management (NDE-2005)*, IACR Engineering College, Rayagada; ISTE Orissa Section, 12th-13th March 2005.

Article published (International): 6

1. Titled with “Cottoning of new kind of fuel”, *published in Inside Science News Reports* from **American Institute of Physics (AIP)** on 29.05.2009.
2. Titled with “Tumble flow analysis in an unfired engine using Particle Image Velocimetry”, published in **EBSCO** Host Connection, WASET-June 2009, Issue30, pg.430.
3. Titled with “Characterization of Flow through the Intake Valve of a Single Cylinder Engine using Particle Image Velocimetry, published in **EBSCO** Host Connection, JAFM-July 2010, Vol.3, Issue 2, pg.23.
4. Titled with “Effect of Cavity in a Pentroof Piston on the Engine In-cylinder Tumble Flows - An Investigation by Particle Image Velocimetry, published in **EBSCO** Host Connection, EL-September 2009, Vol.17, Issue 3, pg.195.
5. Titled with “Effect of Engine Speed on In-Cylinder Tumble Flows in a Motored Internal Combustion Engine-An Experimental Investigation Using Particle Image Velocimetry, published in **EBSCO** Host Connection, JAFM-January 2011, Vol.4, Issue1, pg.1.
6. Titled with “Effect of Intake Manifold Inclination on Intake Valve Flow Characteristics of a Single Cylinder Engine using Particle Image Velocimetry, published in **EBSCO** Host Connection, WASET-October2008, Vol.46, pg.853

Books Published /Chapters Contributed:

1. Soft Computing in Data Analytics: Proceedings of International Conference on SCDA 2018 (Advances in Intelligent Systems and Computing Book 758) 1st ed. 2019 Edition, Kindle Edition, **Springer** with ISBN-13: 978-9811305139, ISBN-10: 9811305137 (*available in Amazon International online*)
2. Experimental Investigations on In-cylinder Flows of Engine with Intake Shrouded Valve, **Pearson** with ISBN 978-93-325-7023-8, Nov.2015, pg.565-572.
3. PIV Experiments and In-Cylinder Flow Structure Analysis of a Motored Engine Equipped with Inclined Crown Pistons, **Tata McGraw Hills**, ISBN(13):978-93-85880-71-1, ISBN(10):93-85880-71-3, Vol.1 Sep. 2015, pg.232-241.

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