

LIST OF PUBLICATIONS BY FACULTY IN 2019 -20

1. SARAVANAN, V. ET AL. AND V.R.SANAL KUMAR, CONCEPTUAL AERODYNAMIC DESIGN OF PINTLE NOZZLE FOR VARIABLE-THRUST PROPULSION, INT. J. AERONAUT. SPACE SCI., VOL.21, 2019, 10.1007/s42405-019-00193-2
2. NICHITH CHANDRASEKARAN ET AL., AND V.R.SANAL KUMAR, "PREDICTION OF DETONATION VELOCITY AND N-O COMPOSITION OF HIGH ENERGY C-H-O EXPLOSIVES BY MEANS OF ARTIFICIAL NEURAL NETWORKS, PROPELLANTS, EXPLOSIVE, PYROTECHNICS, VOL.44, 579-587, 2019, [HTTPS://DOI.ORG/10.1002/PROP.201800325](https://doi.org/10.1002/PROP.201800325)
3. ABRUKOV, V., ET AL. AND V.R.SANAL KUMAR, RECENT ADVANCEMENTS IN STUDY OF EFFECTS OF NANO MICRO ADDITIVES ON SOLID PROPELLANTS COMBUSTION BY MEANS OF THE DATA SCIENCE METHODS, DEFENCE SCIENCE JOURNAL, VOL.69, 2019. DOI:10.14429/DSJ.69.12948
4. ARAVIND A, VETRIVEL M, ABHIMANYU P, AKAASH EMMANUEL RAJ C. A, K. SUNDARARAJ AND V.R.S.KUMAR, AERODYNAMIC DESIGN OPTIMIZATION OF HIGH-SPEED HATCHBACK CARS FOR LUCRATIVE COMMERCIAL APPLICATIONS" INTERNATIONAL JOURNAL OF AEROSPACE AND MECHANICAL ENGINEERING VOL:13, No:3, 2019
5. K NAVEEN KUMAR, VIJAYANANDH R, RAMESH M, DESIGN OPTIMIZATION OF NOZZLE AND SECOND THROAT DIFFUSER SYSTEM FOR HIGH ALTITUDE TEST USING CFD, IOP - JOURNAL OF PHYSICS: CONFERENCE SERIES, 1355 012012, 2019. [HTTPS://DOI.ORG/10.1088/1742-6596/1355/1/012012](https://doi.org/10.1088/1742-6596/1355/1/012012)
6. NAVEEN KUMAR K, VIJAYANANDH R, BRUCE RALPHIN ROSE J, SWATHI V, NARMATHA R ,VENKATESAN. K, RESEARCH ON STRUCTURAL BEHAVIOR OF COMPOSITE MATERIALS ON DIFFERENT CANTILEVER STRUCTURES USING FSI, INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY, ISSN: 2249 – 8958, VOLUME-8, ISSUE-6S3, PP: 1075 - 1086, SEPTEMBER 2019, RETRIEVAL NUMBER: F11780986S319/2019©BEIESP.
7. BALAJI SONAIMUTHU, PRABHAGARAN PANCHALINGAM, VIJAYANANDH RAJA, COMPARATIVE ANALYSIS OF PROPULSIVE SYSTEM IN MULTI-ROTOR UNMANNED AERIAL VEHICLE, , VOLUME - 2, PROCEEDINGS OF THE ASME 2019 GAS TURBINE INDIA CONFERENCE - GTINDIA2019, DECEMBER 5-6, 2019, CHENNAI, TAMIL NADU, INDIA, ISBN: 978-0-7918-8353-2, GTINDIA2019-2429, V002T08A004; 8 PAGES, [HTTPS://DOI.ORG/10.1115/GTINDIA2019-2429](https://doi.org/10.1115/GTINDIA2019-2429)
8. RAMESH MURUGESAN, VIJAYANANDH RAJA, ACOUSTIC INVESTIGATION ON UNMANNED AERIAL VEHICLE'S ROTOR USING CFD-MRF APPROACH, VOLUME - 2, PROCEEDINGS OF THE ASME 2019, GAS TURBINE INDIA CONFERENCE - GTINDIA2019, DECEMBER 5-6, 2019, CHENNAI, TAMIL NADU, INDIA, GTINDIA2019-2430, ISBN: 978-0-7918-8353-2, V002T08A005; 7 PAGES, [HTTPS://DOI.ORG/10.1115/GTINDIA2019-2430](https://doi.org/10.1115/GTINDIA2019-2430)
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10. VIJAYANANDH R, RAMESH M, RAJ KUMAR G, THIANESH U K, VENKATESAN K, SENTHIL KUMAR M, RESEARCH OF NOISE IN THE UNMANNED AERIAL VEHICLE'S PROPELLER USING CFD, INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY, ISSN: 2249 – 8958, VOLUME-8, ISSUE-6S, PP 145 – 150, AUGUST 2019, RETRIEVAL NUMBER: F10310886S19/19©BEIESP, DOI:10.35940/IJEAT.F1031.0886S19.
11. V PRAVEEN KUMAR, S KISHOR KUMAR, K R SANKARESH PANDIAN, E ASHRAF, K THANGA TAMIL SELVAN, VIJAYANANDH R, CONCEPTUAL DESIGN AND HYDRODYNAMIC RESEARCH ON UNMANNED AQUATIC VEHICLE, INTERNATIONAL JOURNAL OF INNOVATIVE TECHNOLOGY AND EXPLORING ENGINEERING, ISSN: 2278-3075, VOLUME-8, ISSUE-11S, PP 121 - 127, SEPTEMBER 2019, RETRIEVAL NUMBER: K102709811S19/2019©BEIESP, DOI: 10.35940/IJITEE.K1027.09811S19.
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13. BALAJI S, PRABHAGARAN P, VIJAYANANDH R, SENTHIL KUMAR M, RAJ KUMAR R, COMPARATIVE COMPUTATIONAL ANALYSIS ON HIGH STABLE HEXACOPTER FOR LONG RANGE APPLICATIONS, 1ST INTERNATIONAL CONFERENCE ON UNMANNED AERIAL SYSTEM IN GEOMATICS - 2019 IN COOPERATION WITH ISPRS 6TH AND 7TH OF APRIL 2019, IIT ROORKEE NOIDA CAMPUS. BALAJI S, PRABHAGARAN P, VIJAYANANDH R, SENTHIL KUMAR M, RAJ KUMAR R, COMPARATIVE COMPUTATIONAL ANALYSIS ON HIGH STABLE HEXACOPTER FOR LONG RANGE APPLICATIONS, UNMANNED AERIAL SYSTEM IN GEOMATICS, LECTURE NOTES IN CIVIL ENGINEERING, eBook ISBN: 978-3-030-7393-1, CHAPTER NUMBER 31, PP. 369-391, 2020,
14. VIJAYANANDH R, SENTHIL KUMAR M, RAHUL S, THAMIZHANBU E AND DURAI ISAAC JAFFERSON M, CONCEPTUAL DESIGN AND COMPARATIVE CFD ANALYSES ON UNMANNED AMPHIBIOUS VEHICLE FOR CRACK DETECTION, 1ST INTERNATIONAL CONFERENCE ON UNMANNED AERIAL SYSTEM IN GEOMATICS - 2019 IN COOPERATION WITH ISPRS 6TH AND 7TH OF APRIL 2019, IIT ROORKEE NOIDA CAMPUS. VIJAYANANDH R, SENTHIL KUMAR M, RAHUL S, THAMIZHANBU E AND DURAI ISAAC JAFFERSON M, CONCEPTUAL DESIGN AND COMPARATIVE CFD ANALYSES ON UNMANNED AMPHIBIOUS VEHICLE FOR CRACK DETECTION, UNMANNED AERIAL SYSTEM IN GEOMATICS, LECTURE NOTES IN CIVIL ENGINEERING, eBook ISBN: 978-3-030-7393-1, CHAPTER NUMBER 14, PP. 133-150, 2020
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16. RAJ KUMAR G, BALASUBRAMANIAM S, SENTHIL KUMAR M, VIJAYANANDH R, RAJ KUMAR R, VARUN S (2019), 'CRASH ANALYSIS ON THE AUTOMOTIVE VEHICLE BUMPER', INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY (IJEAT), ISSN: 2249 – 8958, VOLUME-8, ISSUE-6S3.
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19. V.R.SANAL KUMAR ET AL., SANAL FLOW CHOKING: A PARADIGM SHIFT IN COMPUTATIONAL FLUID DYNAMICS CODE VERIFICATION AND DIAGNOSING DETONATION AND HEMORRHAGE IN REAL-WORLD FLUID-FLOW SYSTEMS, GLOBAL CHALLENGES (WILEY PUBLICATIONS), VOL.4, 2020,
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21. ASHISH KUMAR, SUGJOON YOON AND V.R.SANAL KUMAR, MIXED REALITY SIMULATION OF HIGH-ENDURANCE UNMANNED AERIAL VEHICLE WITH DUAL-HEAD ELECTROMAGNETIC PROPULSION DEVICES FOR EARTH AND OTHER PLANETARY EXPLORATIONS, APPLIED SCIENCE, VOL.10, 2020, <https://doi.org/10.3390/app10113736>
22. ARAVIND S ET AL. AND V.R.SANAL KUMAR, " DESIGN OPTIMIZATION OF DUMP DIFFUSERS WITH NACA 66-021 SHAPED FLAME TUBE." AIAA PROPULSION AND ENERGY 2020 FORUM, AUGUST 24-28, 2020, AIAA 2020-3705 <https://doi.org/10.2514/6.2020-3705>