

Dr. C. DANIEL



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Hindustan Institute of Technology and Science
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Total Experience in years: 4

Specialization: Structural Engineering

Research areas: Smart Materials, Smart Foldable Housing,
Structural Vibration Control. Prestressed Concrete and Textile
Reinforced Concrete

List of Publications

Book

- Daniel C, Sarala L, Vincent Sam Jebadurai S, Arunraj E, Hemalatha G, “Innovative Teaching Practices for 4G Students”, IOR International Press, Coimbatore, India, ISBN: [978-93-88413-40].
- Daniel C, Bindu Swetha Pasuluri, D. S. Vijayan, V J K Kishor Sonti, V. Lakshmi Prasanna, “Innovative Teaching and Learning Process during COVID 19”, IOR International Press, Coimbatore, India, ISBN: [978-93-89631-64-7], 1st Edition.
- Bindu Swetha Pasuluri, Daniel C, D. S. Vijayan, S. Arvindan, S. Pradeep Kumar, “Innovative Teaching and Learning Process during COVID 19”, IOR International Press, Coimbatore, India, ISBN: [978-93-89631-66-1], 2nd Edition.

Book Chapter

- Daniel C, Hemalatha G, Sarala L, Tensing D, Sundar Manoharan S, “Effects of Creep on RC frame subjected to cyclic load with Magnetorheological Damper”, Creep Characteristics of Engineering Materials, IntechOpen, 2020, pp. 1-14.
- C. Daniel, J. B. Renin Jeya Gem, P. Mounica, “Advantages of Online Classes During Covid 19”, Innovative Teaching and Learning Process during COVID 19, Edition 2, IOR International Press, India.
- J. B. Renin Jeya Gem, P. Mounica, C. Daniel “Teaching learning practices during lockdown”, Innovative Teaching and Learning Process during COVID 19, Edition 2, IOR International Press, India

Journal Articles

- Joel Shelton, Venkata Naresh, Arun Solomon, Daniel C, " Experimental and analytical investigation of geo-grid confined RC beams with glass fiber reinforced concrete Structures", Structures, 34, pp. 487-497. Elsevier
- S. V. S. Jebadurai, D. Tensing, C. Daniel, E. Arunraj, G. Hemalatha, "Analytical Approach to Estimate Equivalent Strut Width for Wire Meshed Masonry Infilled RC Frame Under Dynamic Loading", Civil Engineering and Architecture, 9 (4), 2021, pp. 1198-1205
- K. Sumanth Ratna, C. Daniel, Anshika Ram, B. Siva Kumar Yadav, G. Hemalatha, "Analytical Investigation of MR Damper for Vibration Control: A Review", Journal of Applied Engineering Sciences, Vol. 11(24), 2021, pp. 49-52.
- Daniel C, Hemalatha G, Ehsan Noroozinejad Farsangi, Arnab Banerjee, Sarala L, Sundar Manoharan S, "On the Seismic Performance Evaluation of a Recently Developed Magnetorheological Damper: Experimental Investigation", Practice Periodical on Structural Design and Construction, ASCE, Vol. 26 (1),2021, pp. 1-14.
- Daniel C, G. Hemalatha, Ehsan Noroozinejad Farsangi, L. Sarala, D. Tensing, and S. Sundar Manoharan, " Development of a Multiple Coil Magneto-Rheological Smart Damper to Improve the Seismic Resilience of Building Structures", The Open Civil Engineering Journal, Vol. 14, 2020, pp. 78-93.
- Daniel C, G. Hemalatha, L. Sarala, D. Tensing, and S. Sundar Manoharan, " Study on Magnatec Oil-based MR Fluid and its Damping Efficiency", Energy, Ecology and Environment, 2020, pp. 1-11
- Daniel C, G. Hemalatha, L. Sarala, D. Tensing, and S. Sundar Manoharan, "Seismic Mitigation of Building Frames using Magnetorheological Damper", International Journal of Engineering, Transactions B: Applications, Vol. 32 (11), 2019, pp. 1543-1547.
- Daniel C, Arunraj E, Vincent Sam Jebadurai S, Joel Shelton J*, Hemalatha G, "Dynamic Analysis of Structure Using Fluid Viscous Damper for Various Seismic Intensities", International Journal of Innovative Technology and Exploring Engineering, Vol. 9 (1), 2019, pp – 517-520.
- Arunraj Ebanesar, Daniel Cruze, Ehsan Noroozinejad Farsangi, Vincent Sam Jebadurai Seenivasan , Adil Dar Mohammad , Dar Abdul Rashid , Hemalatha Gladston, " Seismic Performance Evaluation of a Proposed Buckling-Restrained Brace for RC-MRFS", Civil And Environmental Engineering Reports, Vol. 30 (3), 2019, pp. 164-173.
- Arunraj E, S Vincent Jebadurai, Daniel C, Joel Shelton J, Hemalatha G, "Experimental Study on Brick Using Natural Fibres", International Journal of Engineering, Transactions B: Applications, Vol. 32 (6), 2019, pp. 799-804.
- Arunraj E, Vincent Sam Jebadurai S, Samuel Abraham D, Daniel C, Hemalatha G, "Analytical Investigation of Buckling Restrained Braced Frame Subjected to Non-Linear Static Analysis" International Journal of Engineering and Advanced Technology, Vol. 8 (5), 2019, pp. 334-338.
- Daniel C, Hemalatha G, S. Vincent Sam Jebadurai, Sarala L, Tensing D & S. S. Judith Emilian Christy, "A Review on the Magnetorheological Fluid, Damper and Its

Applications for Seismic Mitigation”, Civil Engineering Journal, Vol. 4 (12), 2018, pp. 3058-3074.

- Rakshita R, Daniel C, Vincent Sam Jebadurai S, Sarala L, Arunraj E, Hemalatha G, “Influence of Stiffness and Mass Parameters on Seismic Damping of Structures”, International Journal of Engineering and Advanced Technology, Vol. 8 (2), 2018, pp. 58-62.
- Daniel C, Hemalatha. G, Arunraj. E, Vincent Sam Jebadurai. S & Sarala. L, “A Review on Optimal Design of Magneto-Rheological Damper”, International Journal of Mechanical and Production Engineering Research and Development, Vol. 8 (6), Dec 2018, pp. 569-578, doi.org/10.24247/ijmperdec201860.
- Daniel Cruze, Solomon Sundar Manoharan, Tensing Dharmaraj, Sarala Loganathan, Sophia Immanuel and Hemalatha Gladston, "Experimental Investigation on Magnetorheological Damper for RCC Frames Subjected to Cyclic Loading", Advances in Civil Engineering Materials, ASTM, Vol. 7 (3), 2018, pp. 413-427,
- Lokesh Kumar Anaimallur Mani, Arunraj E, Vincent Sam Jebadurai S, Daniel C, Joel Shelton J and Hemalatha G, “Bridge of I-35 Design using PG Super”, International Journal of Civil Engineering and Technology, Vol. 9 (6), 2018, pp. 355-362.
- Daniel C, G. Hemalatha, L. Sarala, D. Tensing, and S. Sundar Manoharan. "Magnetorheological Fluid with Nano Fe₃O₄ for Performance Enhancement of MR Damper for Seismic Resistance of Steel Structures", Key Engineering Materials, vol. 763, 2018, pp. 975-982,
- Levin Daniel J V, Daniel C, Joel Shelton J, Arun Raj E, Vincent Sam Jebadurai S and Hemalatha G, “Effect of Inhibitive Influence of Aqueous Extract of Fenugreek Sprouts on the Corrosion of Aluminium in 1N NaOH”. International Journal of Mechanical Engineering and Technology, Vol. 8 (5), 2017, pp. 638–646.
- Vincent Sam Jebadurai S, Arunraj E, Daniel C, Joel Shelton J et al “Feasibility test of Calcium Lignosulphonate on Clay”, Rasayan Journal of Chemistry, Vol. 10 (4), 2017, pp. 1481-1491,
- Daniel C, Ajita Magdalene, Hemalatha G, Tensing D, Sundar Manoharan S, “Experimental Investigation on Magnetorheological Damper for Seismic Resistance of Structures with Nano Fe₃ O₄ MR Fluid”, International Journal on Applied Bioengineering, Vol.10 (2), July 2016, pp. 1-6,
- Daniel C, Levin Daniel J V, Joel Shelton J, Arunraj E, Vincent Sam Jebadurai S and Hemalatha G, “Influence of Wind Loads Design of Indian Code Compared with American Code”, International Journal of Civil Engineering and Technology, Vol. 8 (5), 2017, pp. 676–685.

Conference articles

- Joel Shelton J, A.M D. Nisar Basha, A Arun Solomon and Daniel C, “Axial Compression Behaviour Analysis of Insulated Concrete Form (ICF) Wall Panel With Fibre Cement Board”, In Third International Conference on Materials Science and Manufacturing Technology (ICMSMT 2021) during 08 - 09, April 2021 Coimbatore.

- Rakshita R, Daniel C, Hemalatha G, Sarala L, Tensing D, Manoharan, “Studies on Modelling and Control of RCC Frame with MR Damper”, Smart Technologies for Sustainable Development. In: Sanjay Kumar Shukla, Srinivasan Chandrasekaran, Bibhuti Bhusan Das, Sreevalsa Kolathayar. Lecture Notes in Civil Engineering, (SMTS 2019) (Published Online).
- Daniel C., Hemalatha G., Sarala L., Tensing D., Manoharan S.S. (2021) Smart Lightweight MR Damper for the Enhancement of Seismic Mitigation. In: Adhikari S., Dutta A., Choudhury S. (eds) Advances in Structural Technologies. Lecture Notes in Civil Engineering, vol 81. Springer, Singapore.
- Daniel C, Hemalatha G, Paul Sathiyam, Betsya G, Sarala L, Tensing D, Sundar Manoharan S, (2019) “System Identification of Magnetorheological Damper for Various Configuration”, IOP Conf. Ser.: Material Science and Engineering, Vol. 561 - 012028, pp. 1-16.
- Daniel C, Hemalatha G, Sarala L, Tensing D, Manoharan S.S, Bai XX “Experimental Investigation of a Self-powered Magnetorheological Damper for Seismic Mitigation”. In: Ha-Minh C., Dao D., Benboudjema F., Derrible S., Huynh D., Tang A. (eds) CIGOS 2019, Innovation for Sustainable Infrastructure. Lecture Notes in Civil Engineering, 2020, vol 54, pp. 397-402, (Springer)
- Daniel C., Hemalatha G., Magdalene A., Tensing D., Sundar Manoharan S., “Magnetorheological Damper for Performance Enhancement against Seismic Forces”. In: Rodrigues H., Elnashai A., Calvi G. (eds) Facing the Challenges in Structural Engineering. GeoMEast 2017, Egypt. Sustainable Civil Infrastructures, 2018, pp. 104-117, (Springer).

Awards

- Best Poster Award, Colloquium on research practices, Karunya Institute of Technology and Sciences, Coimbatore, April 8 -2018
- Best Paper Award, International Conference on Advances in Concrete, Structural & Geotechnical Engineering, BITS, Pilani, Rajasthan, Feb. 26 - 2018
- Best Poster Award, Colloquium on research Practices, Karunya Institute of Technology and Sciences, Coimbatore, April 7 - 2017
- Young Researcher Award, International Conference on Nanoscience and Nanotechnology for Energy Applications, Sathyabama Institute of Science and Technology, Chennai, June 27 – 2016

Guest Lecture Delivered

- “Digital Tools for Scientific Document Preparation” Webinar organized by St. Albert’s College (Autonomous), Ernakulam, Kerala on 06-12-2021.
- “Smart Material Resisting Structural Vibration” FDP on Challenges and Innovative Techniques in Concrete Structures organized by Jyothi Engineering College, Thrissur, Kerala on 27-10-2021.

- “How to Check the Journals are indexed or not” FDP on Nuances of Research Techniques organized by Sri Krishna Aditya College of Arts and Science, Coimbatore on 10-08-2021.
- “Research Training” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 14-06-2021 to 25-06-2021.
- “Research training” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 18-01-2021 to 29-1-2021.
- “Research training” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 22-02-2021 to 05-03-2021.
- “Entrepreneurship Development Programme” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 15-3-2021 to 19-03-2021.
- “Entrepreneurship Development Programme” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 26-5-2021 to 30-05-2021.
- “Research training” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 03-05-2021 to 15-05-2021.
- “Research training” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 17-05-2021 to 28-05-2021.
- “Research training” organized by MSME (PPDC) - Agra, Ministry of MSME, Govt. of India on 30-11-2020 to 31-12-2020.
- "How to write Research Article" organized by Department of Computer Science & Engineering, KKR & KSR Institute of Technology and Sciences, Guntur, Andhra Pradesh, India on 11-06-2021
- "How to write Research Article" organized by IQAC and Department of Computer Applications, Kristu Jyoti College of Management and Technology, Changanacherry, Kerala on 3-06-2021.
- “Mendeley and Zotero: The Reference Manager” organized by Department of Civil Engineering and IIC, Mohamed Sathak A J College of Engineering, Chennai on 05/06/2021
- “Research Methodologies” organized by the Department of Civil Engineering, Mohamed Sathak A. J. College of Engineering, Chennai from 08.03.2021 to 12.03.2021.
- “Emerging Trends in construction" organized by Department of Civil Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh RIPPLE 2K21 on 25-06-2021
- “Research Methodology and Tools” organized by School of Computer Science and Engineering, Reva University, Bengaluru on 18-1-2021 to 23-1-2021

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Google Scholar: <https://goo.gl/1qrhwo>