Dr. M. P. MUTHURAI - PUBLICATIONS

IOURNAL PUBLICATIONS (International Refereed Journals)

INTERNATIONAL JOURNALS

- 1. **Muthuraj, M. P.,** and Britto X J, "Prediction of compressive strength of bacteria incorporated GPC using ANN and MARS", Structural Engineering and Mechanics, ISSN: 1225-4568, Vol. 70, No. 6, pp. 671 681, **2019**
- 2. **Muthuraj, M. P.,** Nithyapriya K, Subramanian K and Britto X J, "Shear Behaviour of Glass Fibre-Reinforced Geopolymer Concrete", Recent Advances in Structural Engineering, Volume 1, ISBN 978-981-13-0362-3, pp. 999-1010, **2019**
- 3. **Muthuraj, M. P.** and Jayaprakash, G., "Prediction of Compressive Strength of Various SCC Mixes using Relevance Vector Machine", International Journal of Computer, Material and Continua, ISSN: 1546-2226, Vol.54, No. 1, pp.83 102, **2018**
- 4. **Muthuraj, M. P.** and Nithyapriya, K., "Experimental studies on multicellular GFRP bridge deck panels under static and fatigue loading", Sadhana, Indian Academy of Sciences, ISSN: 0256-2499, Vol. 42, No. 12, pp. 2171–2181, **2017**
- 5. **Muthuraj, M. P.** and Nithyapriya, K., "Experimental and Numerical Investigations on Multicellular GFRP Bridge Deck Panels", International Journal of Computer, Material and Continua, ISSN: 1546-2226, Vol.48, No. 2, pp.119 132, **2015**
- Muthuraj, M. P. "Experimental Investigation on Glass Fibre Reinforced Polymer Bridge Decks Subjected To Static and Fatigue Loading" International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 9, NO. 24, pp. 28749-28767, 2014

NATIONAL JOURNAL

- 7. **Muthuraj, M. P.** and Jayaprakash, G., "Prediction of Fresh Properties of Various SCC Mixes using Support Vector Machine", Journal of Structural Engineering, ISSN 0970 0137, Vol.46, No. 3, pp. 179-189, **2019**
- 8. **Muthuraj, M. P.** and Karthick, B., "Specific Fracture Energy For Normal Strength Concrete, High Strength Conrete And Fibre Reinforced Conrete Three Approaches", Journal of Structural Engineering, ISSN 0970 0137, Vol.46, No. 2, pp. 94-100, **2019**
- 9. **Muthuraj, M. P.** and Nithyapriya, K., "Determination of Size-independent specific fracture energy and corresponding stress vs crack width relation for various concretes", Journal of Structural Engineering, ISSN 0970 0137, Vol.42, No. 2, pp. 167-175, **2015**

CONFERENCES (International / National)

- 10. **Muthuraj M. P.**et al, Presented paper "Retrofitting of RCC columns by Concrete Jacketing" National Conference on "**Advanced construction materials and Techniques in Civil Engineering**" 25th 26th April **2019**, C.I.T, Coimbatore
- 11. **Muthuraj M. P**.et al, Presented paper "Study on Bacterial Concrete" National Conference on "**Advanced construction materials and Techniques in Civil Engineering**" 25th 26th April **2019**, C.I.T, Coimbatore
- 12. **Muthuraj M. P.**et al, Presented paper "Studies on Mechanical Properties and Durability Characteristics of Bacterial Geopolymer Concrete" National Conference on "**Advanced construction materials and Techniques in Civil Engineering**" 27th April **2018**, C.I.T, Coimbatore
- 13. **Muthuraj M. P**.et al, Presented paper "Design Optimization for a Dep Test Tank Facility on a River Bank" National Conference on "**Advanced construction materials and Techniques in Civil Engineering**" 27th April **2018**, C.I.T, Coimbatore
- 14. **Muthuraj M. P.**et al, Presented paper "Experimental investigation on the strength of Geopolymer Bacterial Concrete" National Conference on "**Innovations in Material, Mechanics and Processes for Sustainable Development**" 13th April **2017**, C.I.T, Coimbatore

- 15. **Muthuraj M. P.**et al, Presented paper "Strength and Durability Characteristic on Partial REpacement of Cement with Zeolite" National Conference on "**Innovations in Material, Mechanics and Processes for Sustainable Development**" 13th April **2017**, C.I.T, Coimbatore
- 16. Muthuraj M. P.et al, Presented paper "Mechnical and Durability Properties of Concrete Incorporating Zeolite and Silica Fume" National Conference on "Innovations in Material, Mechanics and Processes for Sustainable Development" 13th April 2017, C.I.T, Coimbatore
- 17. **Muthuraj M. P.**et al, Presented paper "neural Networks and Multi Variate Adoptive Regression Splines for Prediction of Strength Properties of Concrete" National Conference on "**Innovations in Material, Mechanics and Processes for Sustainable Development**" 20th April **2016,** C.I.T, Coimbatore
- 18. **Muthuraj M. P.**et al, Presented paper "Analyzing Construction Project, Performance using Earned Value Through Fuzzy Approach and Develop a Model for Effective Implementation" National Conference on "Innovations in Material, Mechanics and Processes for Sustainable Development" 20th April **2016**, C.I.T, Coimbatore
- 19. **Muthuraj M. P.**et al, Presented paper "Study on Strength Characteristics of Concrete with Partial Replacement of Cement by Zeolite" National Conference on "**Innovations in Material, Mechanics and Processes for Sustainable Development**" 20th April **2016,** C.I.T, Coimbatore
- 20. **Muthuraj M. P.**et al, Presented paper "Strength Characteristics of Fibre Reinforced Goepolymer Concrete" National Conference on "**Innovations in Material, Mechanics and Processes for Sustainable Development**" 20th April **2016**, C.I.T, Coimbatore
- 21. **Muthuraj M. P.**et al, Presented paper "Investigation on Ternary Blend on Flexural Behaviour of Geopolymer Concrete" National Conference on "**Innovations in Material, Mechanics and Processes for Sustainable Development**" 20th April **2016**, C.I.T, Coimbatore
- 22. **Muthuraj M. P.**et al, Presented Paper "Shear Behaviour of GFR based Geopolymer Concrete" International conference on "**Structural engineering Convention 2016**", December 2016, CSIR SERC, Chennai
- 23. **Muthuraj M. P**.et al, Presented paper "Impact of value engineering in construction industry" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" 22nd April **2015,** C.I.T, Coimbatore
- 24. **Muthuraj M. P.**et al, Presented paper "Impact of various contract clauses dealing with construction project performance" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" 22nd April **2015**, C.I.T, Coimbatore
- 25. **Muthuraj M. P.**et al, Presented paper "Studies on the mechanical properties of concrete with internal self curing polymer" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" 22nd April **2015**, C.I.T, Coimbatore
- 26. **Muthuraj M. P.**et al, Presented paper "Experimental investigation on concrete with partial replacement of cement by bagasse ash" National Conference on "**Innovations in Civil Engineering Systems for Sustainable Construction**" 22nd April **2015**, C.I.T, Coimbatore
- 27. **Muthuraj M. P.**et al, Presented paper in "Experimental investigation on steel scrap reinforced concrete" in TEQIP Sponsored National level Conference on "**Frontier applications in Civil and Environmental Engineering**", 24-25th Feb **2014**, C.I.T, Coimbatore
- 28. **Muthuraj M. P.**et al, Presented paper in "Comparison of experimental investigation on glass fibre reinforced polymer bridge decks subjected to static loading with analytical evaluation using ABAQUS" in TEQIP Sponsored National level Conference on "**Frontier applications in Civil and Environmental Engineering**", 24-25th Feb **2014**, C.I.T, Coimbatore