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## Present Position

Assistant Professor (SI Gr), Department of Production Technology, Madras Institute of Technology, Anna University, Chennai from December-2007.

## Previous Positions

- Assistant Professor, Department of Production Technology, College of Engineering Guindy, Anna University, Chennai from December-2007.

## Other Employment

- Senior Lecturer, Easwari Engineering College, Ramapuram, Chennai for 1.4 years.
- Lecturer, Dr.M.G.R. Engineering college, Maduravoyal, Chennai for 4.9 years.

## Degree

- ❖ M.E. in COMPUTER INTEGRATED MANUFACTURING , Dr. M.G.R. Engineering College, Maduravoyal, Chennai, Anna University, Chennai (2002 - 2004).
- ❖ B.E. in PRODUCTION ENGINEERING , Dr. MGR Engineering College, Maduravoyal, Chennai, Madras University (1997 - 2001).

## Research Degree

- ❖ Ph.D. in Superplastic Forming, Friction Stir Welding, Finite Element Analysis from Faculty of Mechanical Engineering, College of Engineering, Anna University (2006 - 2013).  
Title: STUDIES ON EXPERIMENTAL, NUMERICAL AND FINITE ELEMENT ANALYSIS OF SUPERPLASTIC FORMING ON FRICTION STIR WELDED AA6061-T6 ALLOY.

## Area of Specialisation

- Metal forming, Finite Element Analysis, Engineering Mechanics, Computed Aid

## Research Guidance

Number of Ph.D Scholars Guiding : 5  
Number of M.E./ M.Tech. Projects : 24  
Guided  
Number of M.E./ M.Tech. Projects : 6  
Guiding  
Number of Ph.D Scholars Guiding : 1  
as Joint-Supervisor

## Papers Published in Journals

Research Papers Published in International Journals : 12  
Research Papers Published in National Journals : 1

1. "Finite Element Simulation in Superplastic forming of Friction Stir Welded Aluminium Alloy 6061-T6", International Journal of Integrated Engineering, published by Penerbit UTHM. Vol. 3, pp. 9-16 (2011).
2. " Superplastic Bulge forming of AA6061-T6 alloy sheet of constant pressure", Journal of Engineering Today, Vol. 14, Issue 2, (2012).
3. "Numerical analysis on superplastic forming of Friction stir welded AA6061-T6 alloy sheet", Advanced Materials Research, published by Transtech. Vol. 488, pp. 753-758 (2012).
4. "Mathematical Model for Estimation of Global Solar Radiation In Tamil Nadu Using Minimum Climatological Parameters", International Journal of Applied Engineering Research, Vol. 9, pp. 8858-8860 (2014).
5. "Experimental and finite element modeling of SPF/DB in Aluminium Alloys", International Journal of Applied Engineering Research, Vol. 9, pp. 8901-8904 (2014).
6. " Superplastic forming of friction stir welded AA6061-T6 alloy sheet with various tool rotation speed", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 30, pp. 1080-1089 (2015).
7. "Effect of welding parameters on friction stir welded dissimilar aluminium alloys 7075 and 6082 with various tool pin profile", Journal of Chemical and Pharmaceutical Sciences, pp. 463-468 (2015).
8. "Experimental study of incremental forming in stainlesssteel (AISI 316) for a truncated pyramid shape", Journal of Chemical and Pharmaceutical Sciences, pp. 454-462 (2015).
9. "Theoretical Prediction of Thickness Distribution on Warm Deep Drawn AISI 304 Steel Cup", Applied Mechanics and Materials, published by Trans Tech Publications. Vol. 766, Issue 76, pp. 974-981 (2015).
10. "Superplastic Forming of a Three-Stage Hemispherical 5083 Aluminium Profile", Strojniški vestnik - Journal of Mechanical Engineering, published by Strojniški vestnik . Vol. 61, Issue 6, pp. 365-373 (2015).

11. Muthusamy Balasubramanian, Pasupathy Ganesh, Kalimuthu Ramanathan, Velukkudi Santhanam Senthil Kumar, "An Experimental Investigation and Numerical Simulation in SPF of AA 5083 Alloy using Programming Logic Control Approach", *Strojniški vestnik - Journal of Mechanical Engineering*, published by Journal of Mechanical Engineering. Vol. 63, Issue 4, pp. 255 - 264 (2017).
12. P. Ganesh, A. Visagan, N. Ethiraj, M. Prabhakar, S. Sendilvelan, "Optimization of pyramid shaped single point incremental forming of AA5052 alloy sheet", *Materials Today: Proceedings*, published by Elsevier. Vol. 45, pp. 5892-5898 (2020).
13. Balasubramanian Arun Prasath, Pasupathy Ganesh and Karibeeran Shanmuga Sundaram, "Optimization of electrohydraulic forming process parameters using the response surface methodology", *Materials Testing*, published by DE Gruyter. Vol. 63, Issue 6, pp. 571-580 (2021).

## Papers Presented in Programmes

Research Papers Presented in International Programmes : 3  
Research Papers Presented in National Programmes : 0

1. "Finite Element Modelling and Experimental Investigation on AA6061-T6 Alloy Sheets for Optimization of Material Parameters" presented in a International level conference on International Conference on Advances in Material Processing and Characterisation, organised by CEG, Anna University, India from 06-Feb-2013 to 08-Feb-2013.
2. "Determination of superplastic material properties for parent material and friction stir welded joint of al-alloy aa6061-t6" presented in a International level conference on ASME 2015 International Mechanical Engineering Congress & Exposition, organised by ASME, Texas from 13-Nov-2015 to 19-Nov-2016.
3. "Experimental investigations of elliptical bulge test in superplastic forming of AA6061-t6" presented in a International level conference on International Conference on Materials, Design and Manufacturing Process, organised by CEG, Anna University, India from 17-Feb-2016 to 19-Feb-2016.

## Current Sponsored Projects

1. "DEVELOPMENT OF SEMI AND FULLY AUTOMATED INTELLIGENT EXO-SKELETAL AND PROSTHETICS FOR DISABLED COMMUNITIES".. Project Cost: 17.82.

## Sponsored Projects Completed

1. "Formability studies on incremental forming of polymers with increased wall angle", funded by CTDT (March-2016 - December-2016). Project Cost: 25000.00.
2. "Design and Fabrication of electromagnetic forming machine for bending process using pulsed power", funded by CTDT (March-2016 - December-2016). Project Cost: 25000.00.
3. "Lifesaving jacket for workers working at high altitude jobs", funded by CTDT (March-2016 - December-2016). Project Cost: 25000.00.

4. "Synthesis of functionally gradient aluminium nano hybrid composite liner using sintering process", funded by CTDT (March-2016 - December-2016). Project Cost: 25000.00.
5. "Development and fabrication of hybrid titanium sandwich composite for thermal protection in hypersonic aircraft skin", funded by CTDT (March-2016 - December-2016). Project Cost: 25000.00.
6. "Design, development and analysis of an electric scooter with on-board range extender", funded by CTDT (March-2015 - December-2015). Project Cost: 25000.00.
7. "Design and fabrication of a treadmill-electric vehicle", funded by CTDT (March-2015 - December-2015). Project Cost: 25000.00.
8. "Stair climbing wheelchair for physically challenged using high grip crawlers", funded by CTDT (March-2013 - December-2013). Project Cost: 25000.00.
9. "Ornithoper for surveillance", funded by CTDT (February-2013 - December-2013). Project Cost: 25000.00.
10. "Low cost semi active car seat suspension system using magneto rheological fluid", funded by CTDT.. Project Cost: 25000.00.
11. "Semi automated roof cleaning robot", funded by CTDT.. Project Cost: 25000.00.
12. "automation of Electrochemical etching for ferrous and non-ferrous metals", funded by CTDT.. Project Cost: 25000.00.
13. "Automation of bulge formation using plc", funded by CTDT.. Project Cost: 25000.00.
14. "Determination of high-temperature mechanical properties of aa6061 alloy by short-term tests", funded by CTDT.. Project Cost: 25000.00.
15. "Damping vibrations in prosthetic leg using magnetorheological fluids", funded by CTDT.. Project Cost: 25000.00.
16. "Desalination of sea water by mechanical vapour compression", funded by CTDT.. Project Cost: 25000.00.
17. "MULTIPASS INCREMENTAL FORMING OF SS304 SHEETS" (August-2017 - December-2017). Project Cost: 23000.00.

## Programme Organized

1. Coordinator, National level workshop on "National Workshop on Emerging Trends for Engineering Applications (ETNEA2014)" from 21-Feb-2014 to 22-Feb-2014.
2. Coordinator, National level workshop on "Emerging trends in Nanomaterials for engineering applications" from 21-Feb-2014 to 22-Feb-2014.
3. Coordinator, National level Short Course on "FDP on Finite Element Analysis (ME2353)" from 04-Dec-2014 to 10-Dec-2014.

4. Coordinator, National level Short Course on "FDP on Metrology and Measurements (ME6504)" from 30-May-2016 to 05-Jun-2016.

## Programme Attended

1. Participated in a National level workshop on "One Day Workshop on Eco – Friendly Welding Process at" organized by Anna University, India.
2. Participated in a National level conference on "National Conference On Advances in Robotics, Precision Engineering and manufacturing Techniques," organized by MIT, Anna University, India from 14-Mar-2008 to 15-Mar-2008.
3. Participated in a International level workshop on "Two Day Workshop on Recent Trends in Non-Destructive Evaluation of materials" organized by MIT, Anna University, India from 24-Mar-2008 to 25-Mar-2008.
4. Attended a International level seminar on "Short Term Training Programme on Engineering Design Principles and New Product Development " organized by IIT Madras, India from 30-Jul-2008 to 05-Aug-2008.
5. Attended a National level seminar on "Short Term Training Programme on Recent Advances in Unmanned Air Vehicles 2008" organized by MIT Anna University, India from 22-Oct-2008 to 25-Oct-2008.
6. Attended a National level Short Course on "Faculty Development Training Programme on Engineering Mechanics" organized by MIT Anna University, India from 15-Dec-2008 to 20-Dec-2008.
7. Participated in a International level workshop on "Two Day Workshop on Advances in Lean Manufacturing and Applications" organized by MIT Anna University, India from 13-Mar-2009 to 14-Mar-2009.
8. Attended a National level Short Course on "Faculty Development Training Programme on ME1402 – Mechatronics" organized by MIT Anna University, India from 08-Jun-2009 to 15-Jun-2009.
9. Participated in a National level workshop on "Indo-German workshop on Advanced technologies" organized by CEG Anna University, India from 03-Dec-2009 to 04-Dec-2009.
10. Attended a National level Short Course on "Faculty Development Training Programme on ME1018 – Operation Research" organized by MIT, Anna University, India from 14-Dec-2009 to 22-Dec-2009.
11. Participated in a National level conference on "National Conference On Recent Innovations in Production Engineering" organized by MIT Anna University, India from 16-Apr-2010 to 17-Apr-2010.
12. Attended a National level seminar on "Short Term Training Programme on Introduction to smart materials and structures" organized by IIT Madras, India from 04-Jan-2011 to 08-Jan-2011.

13. Participated in a International level conference on "International Conference on Mechanical and Manufacturing Engineering" from 06-Jun-2011 to 07-Jun-2011.
14. Attended a National level seminar on "Short Term Training Programme on Engineering Computer Aided Design" organized by IIT Madras, India from 12-Sep-2011 to 16-Sep-2011.
15. Attended a National level Short Course on "Faculty Development Training Programme on ME2353 – Finite Element Analysis" organized by MIT Anna University, India from 02-Dec-2011 to 08-Dec-2011.
16. Participated in a National level conference on "Short Term Training Programme on Robotics Technology" organized by MIT Anna University, India from 10-Dec-2011 to 23-Dec-2011.
17. Attended a National level Short Course on "Faculty Development Training Programme on ME2029 – Design of Jigs, Fixtures and Press Tools" organized by MIT, Anna University, India from 03-Jun-2012 to 10-Jun-2012.
18. Participated in a National level workshop on "National Workshop on Advanced metrology in Manufacturing Engineering" organized by CEG Anna University, India from 03-Oct-2012 to 05-Oct-2012.
19. Participated in a National level workshop on "One Day Workshop on Advances in CNC Machining Skill Development Techniques" organized by CEG Anna University, India from 02-Nov-2012.
20. Attended a National level Short Course on "Faculty Development Training Programme on ME2253 – Engineering Mechanics" organized by MIT Anna University, India from 05-Dec-2012 to 12-Dec-2012.
21. Attended a National level Short Course on "Faculty Development Programme on Advancements in Materials, Manufacturing Processes and Management Systems" organized by Sairam Engineering College, India from 04-Nov-2013 to 16-Nov-2013.
22. Attended a National level Short Course on "Faculty Development Training Programme on ME2026 – Unconventional Machining Processes" organized by MIT, Anna University, India from 04-Dec-2013 to 11-Dec-2013.
23. Participated in a International level conference on "International Conference on 28th Indian Engineering Congress 2013" from 20-Dec-2013 to 22-Dec-2013.
24. Participated in a National level workshop on "Two day Workshop on “Green Manufacturing Concepts”" organized by MIT Anna University, India from 16-Feb-2015 to 17-Feb-2015.
25. Participated in a National level workshop on "Two day Workshop on “High Temperature Ceramics”" organized by ACTECH Anna University, India from 19-Feb-2015 to 20-Feb-2015.
26. Participated in a National level workshop on "Two day Workshop on “Emerging Trends in Mechatronics Systems”" organized by MIT Anna University, India from 06-Mar-2015 to 07-Mar-2015.

27. Attended a National level Short Course on "Faculty Development Training Programme on ME2353 – Finite Element Analysis" organized by MIT Anna University, India from 04-Dec-2015 to 10-Dec-2015.
28. Participated in a National level workshop on "One day Workshop on "Recent Trends in AWJM"" organized by MIT Anna University, India from 19-Feb-2016.
29. Attended a National level Short Course on "Faculty Development Training Programme on ME6504 – Metrology and Measurements" organized by MIT Anna University, India from 30-May-2016 to 05-Jun-2016.
30. Attended a International level Short Course on "Faculty Development Training Programme on ME6301 Engineering Thermodynamics" organized by MIT Anna University, India from 06-Jun-2016 to 12-Jun-2016.
31. Attended a National level Short Course on "Faculty Development Training Programme on ME6503 Design of Machine Elements" organized by Saveetha Engineering College, India from 13-Jun-2016 to 20-Jun-2016.
32. Attended a National level seminar on "CERAMIC COMPOSITES" organized by DEPARTMENT OF CERAMICS, ACTECH, ANNA UNIVERSITY, INDIA from 22-Sep-2017 to 22-Sep-2017.

### Invited Lectures

1. Delivered a Lecture on "Finite Element Analysis" in Seminar organized by Andal Alagar College of Engineering & Technology, Mamandur.
2. Delivered a Lecture on "Weighted Residual Methods" in Faculty Development Training Programme on ME2353 – Finite Element Analysis at Department of Production Technology organized by MIT, Anna University, Chennai. (02-Dec-2011).
3. Delivered a Lecture on "Weighted Residual Methods" in Faculty Development Training Programme on ME2353 – Finite Element Analysis at Department of Production Technology organized by MIT, Anna University, Chennai. (04-Dec-2015).