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Present Position

Assistant Professor (Sr Gr), Department of Production Technology, Madras Institute of Technology, Anna University, Chennai from October-2009.

Previous Positions

- > Teaching Research Associate, Department of Production Technology, Madras Institute of Technology, Anna University, Chennai during August-2008 and October-2009.

Previous Additional Responsibility

- > , , Anna University, Chennai.

Other Employment

- > Assistant Professor, Bahir Dar University, Bahir Dar Ins. of Tech, Bahir Dar, Ethiopia for 2 Years.

Degree

- ❖ M.E. in MANUFACTURING ENGINEERING , Madras Institute of Technology, , Anna University (1995 - 1998).

Research Degree

- ❖ Ph.D. in FRICTION STIR WELDING from Faculty of MECHANICAL, MADRAS INSTITUTE OF TECHNOLOGY, ANNA UNIVERSITY (2009 - 2018).
Title: MICROSTRUCTURE AND MECHANICAL BEHAVIOUR OF FRICTION STIR WELDED COPPER AND ITS ALLOYS.

Area of Specialisation

- > Friction Stir Welding, Advanced Mfg Processes and Material Characterization

Membership in Professional Organization

- > Indian Institute of Metals

Research Guidance

Number of Ph.D Scholars Guiding : 2

Papers Published in Journals

Research Papers Published in International Journals : 7
Research Papers Published in National Journals : 0

1. N. Srirangarajalu, " Microstructure and Mechanical Behaviour of Friction Stir Welded Copper", International Conference on Intelligent Robotics Automation and Manufacturing, Vol. 1, Issue 1, pp. 458-465 (2012).
2. N. Srirangarajalu, " Microstructure and Mechanical Behaviour of Friction Stir Welded Brass", International Journal of Applied Environmental Science, Vol. 9, Issue 2, pp. 165-172 (2014).
3. N. Srirangarajalu, A. Rajadurai, " Microstructure and Mechanical Behaviour of Friction Stir Welded ETP Copper", Metallurgia Italiana, Vol. 108, Issue 2, pp. 13-20 (2015).
4. N. Srirangarajalu, " Parameter Optimization of Extrusion Machine Producing UPVC Pipes Using Taguchi Method: A Case of Amhara Pipe Factory", International Journal of Engineering and Technical Research, Vol. 5, Issue 1, pp. 65-75 (2016).
5. N. Srirangarajalu, A. Rajadurai, " Hardness and Tensile Behaviour of Friction Stir Welded Cu-40wt% Zn Brass", Indian Journal of Engineering and Materials Science, Vol. 24, Issue 1, pp. 63-68 (2017).
6. N. Srirangarajalu, " Effect of Manufacturing Process Parameter on Wear Rate of Al6061 Cu SiCP Alloy Composites", Emerging Materials, Vol. 8, Issue 2, pp. 217-224 (2019).
7. Jaganath Nithin, N. Srirangarajalu, " Modeling and Analysis of Auxetic Structure Based Bioabsorbable Stents", Lecture Notes on Data Engineering and Communications Technologies, Vol. 35, Issue 1, pp. 540-550 (2019).

Papers Presented in Programmes

Research Papers Presented in International Programmes : 10
Research Papers Presented in National Programmes : 4

1. "Friction Stir Welding of AA5083" presented in a International level conference on National Conference on Advances in Robotics, Precision Engineering & Manufacturing Techniques (AIRPAM-2008), organised by MIT Campus, Anna University, Chennai., India from 14-Mar-2008 to 15-Mar-2008.

2. "Effect of Process Parameters in Friction Stir Welding of AA1100 and AA2024, AA7075 Dissimilar Aluminium Alloys" presented in a National level conference on National Conference on Recent Innovations in Production Engineering (RIPE-2010), organised by MIT Campus, Anna University, Chennai., India from 16-Apr-2010 to 17-Apr-2010.
3. "Friction Stir Welding of Copper and Its Alloys" presented in a International level conference on International Conference on Advanced Materials (ICAM-2011), organised by BTI Institute of Technology, Bangalore., India from 19-Aug-2011 to 20-Aug-2011.
4. "Microstructural and Mechanical Characterization of Friction Stir Welded Brass Plates" presented in a National level conference on National Conference on Innovative Research on New Technologies (IRONS 2K12), organised by Jayalakshmi Institute of Technology, Thoppur, Dharmapuri, India from 22-Mar-2012 to 22-Mar-2012.
5. "Friction Stir Welding of Copper and Its Alloys Using Different Tool Pin Profiles" presented in a International level conference on International Conference on Advances in Engineering and Technology(ICAET-2012), organised by EGS Pillay Engineering College, Nagapattinam., India from 28-Mar-2012 to 29-Mar-2012.
6. "Microstructure and Mechanical Behaviour of Friction Stir Welded Copper" presented in a International level conference on Intelligent Robotics, Automation and Manufacturing (IRAM 2012), organised by Monash University, Sunway Campus, Malaysia, Kuala Lumpur from 28-Nov-2012 to 30-Nov-2012.
7. "Experimental Study on Friction Stir Spot Welded Aluminium Alloy AA2014" presented in a National level conference on Recent Trends in Manufacturing Sciences (RTMS-13), organised by Dhanalakshmi Srinivasan College of Engineering and Technology, Chennai., India from 12-Apr-2013 to 12-Apr-2013.
8. "Microstructure and Mechanical Behaviour of Friction Stir Welded Brass" presented in a International level conference on International Conference on Engineering Materials and Processes(ICEMAP-2013), organised by Tagore Engineering College, Chennai., India from 23-May-2013 to 24-May-2013.
9. "Effect of Pin Geometry on Bonding Microstructure and Mechanical Properties in Friction Stir Welding of AA2024-T3" presented in a National level conference on 4th National Conference on Advances in Mechanical Engineering (NCAME-2014), organised by Sri Balaji Chockalingam Engineering College, Arni, , India from 20-Mar-2014 to 21-Mar-2014.
10. "Microstructural Investigation on Friction Stir Processed Al-Si Alloy" presented in a International level conference on International Conference in Magna on Emerging Engineering Trends (ICMEET-2K14), organised by Magna College of Engineering, Chennai, , India from 09-Apr-2014 to 10-Apr-2014.
11. "Experimental Investigation of Friction Stir Welded Aluminium Silicon Alloy" presented in a International level conference on 3rd International Conference on Advancements of Science and Technology (ICAST-2015), organised by Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, Ethiopia, Ethiopia from 08-May-2015 to 09-May-2015.

12. "A Review of Friction Stir Welded Copper" presented in a International level conference on 4th International Conference on the Advancements of Science and Technology (ICAST -2016), organised by Bahir Dar Institute of Technology, Bahir Dar University, Bahir Dar, , Ethiopia from 17-Jun-2016 to 18-Jun-2016.
13. N. SRIRANGARAJALU, "Investigation of Friction Stir Welding Dissimilar Copper and Brass Plates" presented in a International level conference on Recent Innovations in Production Engineering (RIPE-2017), organised by MIT Campus, Anna University, Chennai, , India from 24-Mar-2017 to 25-Mar-2017.
14. "Modelling and Analysis of Auxetic Structure Based Bio Absorbable Stents" presented in a International level conference on Phoenixes on Emerging Current Trends in Materials, Manufacturing, Management Practices and Construction Technologies (PECMACT 2K19), organised by Panimalar Engineering College, Chennai,, India from 22-Mar-2019 to 23-Mar-2019.

Programme Chaired

1. Chairman, International level conference titled "International Conference on Advances in Design, Materials, Manufacturing and Surface Engineering for Mobility ADMMS 2019" conducted by MIT Campus, Anna University, Chennai from 11-Oct-2019 to 12-Oct-2019.

Programme Organized

1. Co-ordinator, National level Short Course on "Faculty Development Training Program" from 05-Dec-2016 to 12-Dec-2016.
2. Co-ordinator, National level Short Course on "Faculty Development Training Program" from 15-May-2017 to 21-May-2017.

Programme Attended

1. Participated in a National level conference on "National Conference on Recent Advances in Product Design, Materials Technology and Manufacturing Systems" organized by MIT Campus, Anna University, Chennai, , India from 06-Jan-2006 to 07-Jan-2006.
2. Participated in a National level workshop on "One Day Workshop on Advances in Manufacturing Technology (ADMAT-2007)" organized by MIT Campus, Anna University, Chennai, , India from 10-Mar-2007 to 10-Mar-2007.
3. Participated in a National level workshop on "Recent Trends in Non-Destructive Evaluation of Materials" organized by MIT Campus, Anna University, Chennai, , India from 24-Mar-2008 to 25-Mar-2008.
4. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 15-Dec-2008 to 20-Dec-2008.

5. Participated in a National level workshop on "Two Day Workshop on Advances in Lean Manufacturing and Applications" organized by MIT Campus, Anna University, Chennai, , India from 13-Mar-2009 to 14-Mar-2009.
6. Participated in a National level workshop on "National Workshop on Environmentally Cleaner Welding Process" organized by Annamalai University, Chidambaram, , India from 17-Apr-2009 to 18-Apr-2009.
7. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai,, India from 08-Jun-2009 to 15-Jun-2009.
8. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 14-Dec-2009 to 22-Dec-2009.
9. Participated in a National level workshop on "Two Day Workshop on Advances in Strong Materials & its Applications" organized by CEG Campus, Anna University, Chennai,, India from 05-Feb-2010 to 06-Feb-2010.
10. Attended a National level Short Course on "CNC Turn Mill Centre- Programming & Operation (Fanuc Oi-TB) 2 Modules" organized by Advanced Training Institute, Chennai,, India from 21-Jun-2010 to 02-Jul-2010.
11. Participated in a National level workshop on "Workshop on Eco-Friendly Welding Process" organized by Annamalai University, Chidambaram, , India from 07-Dec-2010 to 07-Dec-2010.
12. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai,, India from 01-Jun-2011 to 08-Jun-2011.
13. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 13-Jun-2011 to 19-Jun-2011.
14. Participated in a National level workshop on "One Day Workshop on Laser Beam Welding & Processing " organized by SSN College of Engineering, Chennai,, India from 14-Oct-2011 to 14-Oct-2011.
15. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 02-Dec-2011 to 08-Dec-2011.
16. Attended a National level Short Course on "AICTE Sponsored Staff Development Programme" organized by MIT Campus, Anna University, Chennai, , India from 10-Dec-2011 to 23-Dec-2011.
17. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 26-Dec-2011 to 02-Jan-2012.
18. Participated in a National level workshop on "Welding Research Today: Challenges & Opportunities (WRT-2012)" organized by Indian Institute of Technology Madras, Chennai, , India from 23-Nov-2012 to 24-Nov-2012.

19. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 05-Dec-2012 to 12-Dec-2012.
20. Attended a National level Short Course on "UGC Sponsored Short Term Course on Research Methodology, Techniques of writing Research Articles for SCI Journals and Ph.D thesis Preparation" organized by MIT Campus, Anna University, Chennai, , India from 07-Mar-2013 to 07-Mar-2013.
21. Participated in a National level conference on "Recent Advances in Characterization of Aerospace Materials Through Impact Testing (RACAMIT'13)" organized by MIT Campus, Anna University, Chennai, , India from 22-Mar-2013 to 23-Mar-2013.
22. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 03-Jun-2013 to 10-Jun-2013.
23. Participated in a National level workshop on "NRB Research Dissemination Workshop on Titanium Matrix Composites" organized by Indian Institute of Technology Madras, Chennai, , India from 30-Aug-2013 to 30-Aug-2013.
24. Attended a National level Short Course on "Two Day Course on Metallurgy and Materials for Practicing Engineers & Researchers " organized by Indian Institute of Metals Chennai Chapter & IIT Madras, Chennai,, India from 21-Sep-2013 to 22-Sep-2013.
25. Attended a National level Short Course on "Faculty Development Training Programme" organized by MIT Campus, Anna University, Chennai, , India from 04-Dec-2013 to 11-Dec-2013.
26. Participated in a National level workshop on "Workshop on Carbon Accounting and Energy Efficiency" organized by Anna University, Chennai, , India from 06-Feb-2014 to 06-Feb-2014.
27. Participated in a National level workshop on "Workshop on Image Processing Cum Robotics" organized by MIT Campus, Anna University, Chennai, , India from 08-Mar-2014 to 09-Mar-2014.
28. Attended a National level Short Course on "New Materials Their Characterization and Applications" organized by MIT Campus, Anna University, Chennai, , India from 15-Oct-2014 to 16-Oct-2014.
29. Attended a National level Short Course on "Student Evaluation and Question Paper Setting" organized by MIT Campus, Anna University, Chennai, , India from 13-Oct-2016 to 15-Oct-2016.
30. Attended a National level Short Course on "Innovation & Entrepreneurship Development Program" organized by MIT Campus, Anna University, Chennai, , India from 24-Nov-2016 to 26-Nov-2016.
31. Participated in a National level workshop on "Prevention of Failures during Manufacturing and Production (PFMAP-2017)" organized by Society for Failure Analysis, Chennai Chapter &MIT Campus, Anna University, Chennai,, India from 03-Feb-2017 to 04-Feb-2017.

32. Attended a National level Short Course on "Fluid Mechanics and Machinery " organized by MIT Campus, Anna University, Chennai, , India from 07-Jun-2017 to 14-Jun-2017.
33. Participated in a National level workshop on "Siemens Education Day" organized by Siemens and Vi Microsystems Pvt. Ltd, Chennai, India from 04-Aug-2017 to 04-Aug-2017.
34. Attended a National level seminar on "Ceramic Composites" organized by Alagappa College of Technology, Anna University, Chennai, , India from 22-Sep-2017 to 22-Sep-2017.
35. Attended a National level seminar on "Future Requirements in Space and Defence Technologies for India (FRISADTFI-17)" organized by MIT Campus, Anna University, Chennai, India, India from 14-Oct-2017 to 14-Oct-2017.
36. Attended a National level Short Course on "Unconventional Machining Processes" organized by MIT Campus, Anna University, Chennai,, India from 04-Dec-2017 to 11-Dec-2017.
37. Attended a National level Short Course on "Two-Week Faculty Development Training Programme" organized by Alagappa College of Technology, Anna University, Chennai,, India from 21-Jan-2019 to 02-Feb-2019.
38. Participated in a National level workshop on "Writing Science, Engineering and Technology in Tamil" organized by Anna University, Chennai,, India from 01-Apr-2019 to 01-Apr-2019.
39. Participated in a International level workshop on "SERB Sponsored Five Day National Level Workshop" organized by Indian Institute of Information Technology, Design and Manufacturing (IIITDM), Chennai, India from 29-Apr-2019 to 03-May-2019.
40. Attended a National level Short Course on "All India Council For Technical Education" organized by Anna University, Chennai,, India from 13-May-2019 to 15-May-2019.
41. Attended a National level Short Course on "All India Council For Technical Education" organized by Anna University, Chennai, , India from 10-Jun-2019 to 16-Jun-2019.
42. Participated in a National level workshop on "Friction Stir Welding Technology" organized by Indian Institute of Welding Chennai Branch, Chennai, , India from 11-Jan-2020 to 11-Jan-2020.
43. Participated in a National level workshop on "Nanomaterials and their Applications" organized by SSN College of Engineering, Chennai, , India from 23-Jan-2020 to 23-Jan-2020.
44. Attended a National level Short Course on "Modern Materials and Industrial Automation" organized by Sri Sai Ram Institute of Technology, Chennai, , India from 20-Jun-2020 to 25-Jun-2020.
45. Attended a International level Short Course on "Enduring Trends in Hydraulic Control Systems: Past, Present and Future" organized by Indian Institute of Technology Madras, Chennai, India, India from 22-Mar-2021 to 27-Mar-2021.
46. Attended a International level Short Course on "Open Core Smart Manufacturing-Building the Bridge between Automation and Information Technology" organized by Indian Institute of Technology Madras, Chennai, India, India from 26-Apr-2021 to 01-May-2021.

Experience Abroad

1. Visited Monash University, Malasiya, Sunway Campus, Malasiya, Kuala Lumpur from 28-Nov-2012 to 30-Nov-2012. Purpose of visit :Paper Presentation in Conference.
2. Visited Bahir Dar University, Bahir Dar Institute of Technology, Bahir Dar, Ethiopia, Ethiopia from 30-Oct-2014 to 18-Jul-2016. Purpose of visit :Assistant Professor.

Invited Lectures

1. Delivered a Lecture on "Unconventional Machining Processes" in Faculty Development Training Program organized by MIT Campus, Anna University, , Chennai (04-Dec-2017).
2. Delivered a Lecture on "Tools for Quality Control and Manufacturing Processes" in Employability Skill Enhancement Program E-SAP Jointly by AU-CUIC RNTBCI organized by Anna University, , Chennai (08-Dec-2017).
3. Delivered a Lecture on "Unconventional Machining Processes" in Faculty Development Training Program organized by MIT Campus, Anna University,, Chennai (09-Dec-2017).
4. Delivered a Lecture on "Tools for Quality Control and Manufacturing Processes" in Employability Skill Enhancement Program E-SAP Jointly by AU-CUIC RNTBCI organized by National Engineering College, Kovilpatti, Kovilpatti (11-Dec-2017).
5. Delivered a Lecture on "Materials Evaluation and Selection" in Employability Skill Enhancement Programme (E-SEP) Jointly by AU-CUIC & RNTBCI organized by Mahalingam College of Engineering, Coimbatore,, India (15-Feb-2019).
6. Delivered a Lecture on "Materials Evaluation and Selection" in Employability Skill Enhancement Programme (E-SEP) Jointly by AU-CUIC & RNTBCI organized by Sri Easwar Engineering College, Coimbatore, , India (16-Feb-2019).
7. Delivered a Lecture on "Tools for Quality Control and Manufacturing Processes" in Employability Skill Enhancement Program E-SAP Jointly by AU-CUIC RNTBCI organized by Sri Sai Ram Engineering College, Chennai (20-Feb-2019).
8. Delivered a Lecture on "Tools for Quality Control and Manufacturing Processes" in Employability Skill Enhancement Program E-SAP Jointly by AU-CUIC RNTBCI organized by Rajalakshmi Engineering College,, Chennai (22-Feb-2019).
9. Delivered a Lecture on "Industrial Fluid Power Applications" in Workshop on Recent Trends in Fluid Power Control System and Its Industrial Applications organized by Sri Sai Ram Engineering College, Chennai (04-Feb-2020).