

Bio Data of Dr. P. GANESH

Basic Details:

Name: Dr. P. GANESH

Qualification: Assistant Professor

Designation: M.E. (CIM), Ph.D. (Metal Forming)

Area of Interest: Metal Forming, Incremental Forming, Superplastic Forming, Finite Element Analysis, CIM and Computer Aided Product Design

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Educational Qualification:

Degree	Branch/Specialization	Class	Year of Passing	College	University
Ph.D	Mechanical / Metal Forming	Highly Commented	2013	CEG Campus, Anna University, Chennai	Anna University
M.E	Computer Integrated Manufacturing	University 3 rd Rank, First Class with Distinction	2004	Dr. M.G.R. Engineering College, Maduravoyal, Chennai	Anna University
B.E	Production Engineering	First Class	2001	Dr. M.G.R. Engineering College, Maduravoyal, Chennai	Madras University

Experience:

Post held	Period		Total Service		College
	From	To	Year	Month	
Lecturer	31/8/2001	31/05/2006	4	9	Dr.M.G.R. Engineering college, Maduravoyal, Chennai
Lecturer	19/06/2006	31/07/2007	1	-	Easwari Engineering College, Ramapuram, chennai
Senior Lecturer	01/08/2007	17/12/2007	-	4	Easwari Engineering College, Ramapuram, chennai
Assistant Professor	17/12/2007	Till date	8	5	Anna University, MIT Campus, Chrompet, Chennai
Total Experience			14 Years	6 month	

PUBLICATION:

INTERNATIONAL JOURNALS:

- Palaniappan, **P. Ganesh**, S. B. Pranesh, D. Sathianarayanan, G. A. Ramadass, Design and Development of Unmanned Underwater and Aerial Vehicle, © Springer Nature Singapore Pte Ltd. 2019, Proceedings of the Fourth International Conference in Ocean Engineering (ICOE2018), Lecture Notes in Civil Engineering 22, PP 479-489.
- 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 2017 (63)4, 255-264.
- Navaneethakrishnan. T, **Ganesh. P**, Effect Of Welding Parameters On Friction Stir Welded Dissimilar Aluminum Alloys 7075 And 6082 With Various Tool Pin Profiles, International Conference On Recent Advancement In Mechanical Engineering &Technology (ICRAMET' 15), JCHPS Special Issue 9: April 2015.
- Balasubramanian, M. **Ganesh, P.** Ramanathan, K. Velukkudi Santhanam Senthil Kumar, Superplastic Forming of a Three-Stage Hemispherical 5083 Aluminium Profile, Strojniški vestnik - Journal of Mechanical Engineering 61(2015)6, 365-373.
- Senthil Kumar Velukkudi Santhanam, **Ganesh Pasupathy**, Padmanabhan Kuppaswamy Anantha, Determination Of Superplastic Material Properties For Parent Material And Friction Stir Welded Joint Of Al-Alloy Aa6061-T6, Proceedings of the ASME 2015 International Mechanical Engineering Congress and Exposition IMECE2015, November 13-19, 2015, Houston, Texas
- Sundarasrinivasan.A, **Ganesh. P**, Experimental Study Of Incremental Forming In Stainlesssteel (Aisi 316) For A Truncated Pyramid Shape, International Conference On Recent Advancement In Mechanical Engineering &Technology (ICRAMET' 15), JCHPS Special Issue 9: April 2015
- **Ganesh, P.** and Senthil Kumar, V. S. Superplastic forming of friction stir welded AA6061-T6 alloy sheet with various tool rotation speed, Materials and Manufacturing Processes, Vol. 30, pp. 1080-1089 Page 11, 2015
- N. Ethiraj, **P.Ganesh** and V.S. Senthil Kumar, Theoretical Prediction of Thickness Distribution on Warm Deep Drawn AISI 304 Steel Cup, Applied Mechanics and Materials, Vols 766-76, pp 974-981, Page 8,2015.
- Sundarasrinivasan.A, **Ganesh. P**, Experimental study of incremental forming in stainlesssteel (AISI 316) for a truncated pyramid shape, Journal of Chemical and Pharmaceutical Sciences, Special Issue, pp. 454-462 Page 9,2015.

- **Ganesh, P** and Navaneetha Krishnan, T, 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, Special Issue, pp. 463-468, Page 6,2015.
- **Ganesh P**, Anbarasu S and Nepolean V, Experimental and finite element modeling of SPF/DB in Aluminium Alloys, International Journal of Applied Engineering Research, Vol. 9, pp. 8901-8904, Page 4,2014.
- Anbarasu S, **Ganesh P**, and Sindu R, 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, Page 3,2014.
- **Ganesh, P.** and Senthil Kumar, V. S., Numerical analysis on superplastic forming of Friction stir welded AA6061-T6 alloy sheet, Advanced Materials Research, Vol. 488-489, pp. 753-758, Page 6,2012.

NATIONAL JOURNALS

- Kotteesvaran .B and **Ganesh .P**, Superplastic Bulge forming of AA6061-T6 alloy sheet of constant pressure, Journal of Engineering Today, Volume xiv, Issue 2 ISSN : 0974-8377, Page 6,2012.

CONFERENCES

Year	Title	Conducted/Attended	Duration
2016	Experimental investigations of elliptical bulge test in superplastic forming of AA6061-t6	International Conference on Materials, Design and Manufacturing Process	2
2015	Determination of superplastic material properties for parent material and friction stir welded joint of al-alloy aa6061-t6	ASME 2015 International Mechanical Engineering Congress & Exposition	2
2015	Experimental investigation of single point incremental forming in stainless steel (AISI 316)	Advances in materials, manufacturing and applications	2
2015	Effect of various tool pin profiles over friction stir welding of dissimilar aluminum alloy	Advances in materials, manufacturing and applications	2
2015	Experimental study of incremental forming in stainlesssteel (AISI 316) for a truncated pyramid shape	International conference on recent advancement in mechanical engineering and technology at Aarupadai veedu institute of technology, Kancheepuram dist	2
2015	Effect of welding parameters on	International conference on recent	2

	friction stir welded dissimilar aluminium alloys 7075 and 6082 with various tool pin profile	advancement in mechanical engineering and technology at Aarupadai veedu institute of technology, Kancheepuram dist	
2015	An empirical study of effect of dry film thickness of corrosion behaviour of HSLA (IRS-M-41) STEEL	International conference on contemporary engineering and technology 2015 at Aarupadai veedu institute of technology, Kancheepuram dist	2
2013	Finite Element Modelling and Experimental Investigation on AA6061-T6 Alloy Sheets for Optimization of Material Parameters	International Conference on Advances in Material Processing and Characterisation, Anna University, Chennai, February 2013	2
2011	Finite Element Simulation in Superplastic forming of Friction Stir Welded Aluminium Alloy 6061-T6	International Conference of Mechanical Engineering 2011 (ICME2011). Universiti Tun Hussein Onn Malaysia.	2
2007	MSME	Review of Advanced SPF/DB Techniques	2
2015	Experimental study of incremental sheet forming for truncated pyramid shape in stainless steel 316 (AISI)	National conference on recent trends in engineering (NCRTE-2015) at Aarupadai veedu institute of technology, Kancheepuram dist	2
2015	Analysis of corrosion resistance of high strength low alloy steel by using salt fog spray test and weight loss method	National conference on recent trends in engineering (NCRTE-2015) at Aarupadai veedu institute of technology, Kancheepuram dist	2
2015	Effect of welding parameters on friction stir welded dissimilar aluminium alloys 7075 and 6082 with various tool pin profile	National conference on recent trends in engineering (NCRTE-2015) at Aarupadai veedu institute of technology, Kancheepuram dist	2
2015	Effect of friction stir welding parameters on microstructures and mechanical properties of brass joints	National conference on recent trends in engineering (NCRTE-2015) at Aarupadai veedu institute of technology, Kancheepuram dist	2
2015	Robotic crawler for structural health monitoring of tanks and furnaces	National conference on Mechatronics technologies and future challenges	2
2015	3D model based rapid prototyping	National conference on emerging trends in civil, computer, electrical, electronics and mechanical engineering by shri sapthagiri institute of technology, ochri	2
2014	Prediction of spring back effect in incremental forming for various tool path profile	National conference on recent advanced research and technological innovation in mechanical engineering by P.T.Lee chengalvaraya naicker college of engg and tech	2

2014	Study and an experimental investigation on superplastic forming in a spherical closed split die	National conference on recent advanced research and technological innovation in mechanical engineering by P.T.Lee chengalvaraya naicker college of engg and tech	2
2014	Experimental and finite element analysis of hydroforming for stepped die	National conference on contemporary approaches in mechanical, automobile and building sciences by karpaga vinayaga college of engg and tech	2
2014	The influence of multi pass friction stir welding on the micro structural and mechanical properties of dissimilar aluminium alloys	National conference on contemporary approaches in mechanical, automobile and building sciences by karpaga vinayaga college of engg and tech	2
2010	Development and testing of fly ash based brake lining material	Recent Innovation in Production Engineering at MIT, Production Tech	2
2009	Flaw detection on aluminium alloy weld using ultrasonic technic	SNCETET 09 Raja Rajeswari College, Chennai	2
2009	Experimental analysis of superplastic forming and diffusion bonding process on AA6063	Conference on Manufacturing Xcellence (COMAX 09) HKBK College of Engg, Bangalore	2
2008	Fuzzy Based RF wireless multilevel speed limiter and theft detection for vehicle	MIT	2
2008	Intelligence Tremor Suppression device using magneto rheological fluid	MIT	2

SEMINAR/SYMPOSIUM/WORKSHOP CONDUCTED/ATTENDED

Sl. No.	Title	Conducted/ Attended	seminars/ symposium/workshop	Date
1	FDP on Finite Element Analysis (ME2353)	Conducted	FDTP	4 th to 10 th Dec 2014
2	National Workshop on Emerging Trends for Engineering Applications (ETNEA2014)	Conducted	FDTP	21st to 22nd Feb 2014
3	FDP on Metrology and Measurements (ME6504)	Conducted	FDTP	30th May to 5th June 2016
4	National Conference On Advances in Robotics, Precision Engineering and manufacturing Techniques,	Attended	symposium	14th to 15th March 2008
5	Two Day Workshop on Recent Trends in Non-Destructive Evaluation of materials	Attended	workshop	24th to 25th March 2008

6	Short Term Training Programme on Engineering Design Principles and New Product Development at	Attended	seminars	30th July to 5th August 2008
7	Short Term Training Programme on Recent Advances in Unmanned Air Vehicles 2008	Attended	seminars	22nd to 25th October 2008
9	Two Day Workshop on Advances in Lean Manufacturing and Applications	Attended	workshop	13th to 14th March 2009
11	Indo-German workshop on Advanced technologies	Attended	workshop	03rd to 4th Dec 2009
13	National Conference On Recent Innovations	Attended	symposium	16th to 17th April 2010
14	One Day Workshop on Eco – Friendly Welding Process at	Attended	workshop	2010
15	Short Term Training Programme on Introduction to smart materials and structures	Attended	seminars	04th to 08th Jan 2011
16	International Conference on Mechanical and Manufacturing Engineering	Attended	symposium	06th to 07th June 2011
17	Short Term Training Programme on Engineering Computer Aided Design	Attended	seminars	12th to 16th Sep 2011
19	Short Term Training Programme on Robotics Technology	Attended	seminars	10th to 23rd Dec 2011
21	National Workshop on Advanced metrology in Manufacturing Engineering	Attended	workshop	3rd to 5th Oct 2012
22	One Day Workshop on Advances in CNC Machining Skill Development Techniques	Attended	workshop	2nd Nov 2012
24	International Conference on Advances in Material Processing and Characterisation,	Attended	symposium/	06th to 08th Feb 2013
27	International Conference on 28th Indian Engineering Congress 2013	Attended	symposium	20th to 22nd Dec 2013
28	Emerging trends in Nanomaterials for engineering applications	Attended	workshop	21st to 22nd Feb 2014

30	Two day Workshop on “Green Manufacturing Concepts”	Attended	workshop	16th to 17th Feb 2015
31	Two day Workshop on “High Temperature Ceramics”	Attended	workshop	19th to 20th Feb 2015
32	Two day Workshop on “Emerging Trends in Mechatronics Systems”	Attended	workshop	06th to 07th March 2015
33	One day Workshop on “Recent Trends in AWJM”	Attended	workshop	19th Feb 2016

FUNDED PROJECT

S.No.	Project Title	Funding Agency	Grant Received	Year	Status
1	Formability studies on incremental forming of polymers with increased wall angle	CTDT	25,000/-	2015	Ongoing
2	Design and Fabrication of electromagnetic forming machine for bending process using pulsed power	CTDT	25,000/-	2015	Ongoing
3	Lifesaving jacket for workers working at high altitude jobs	CTDT	25,000/-	2015	Ongoing
4	Synthesis of functionally gradient aluminium nano hybrid composite liner using sintering process	CTDT	25,000/-	2015	Ongoing
5	Development and fabrication of hybrid titanium sandwich composite for thermal protection in hypersonic aircraft skin	CTDT	25,000/-	2015	Completed
6	Design, development and analysis of an electric scooter with on-board range extender	CTDT	25,000/-	2015	Completed
7	Design and fabrication of a treadmill-electric vehicle	CTDT	25,000/-	2015	Completed
8	Smart head gear with pcm sensors to protect bikers	CTDT	25,000/-	2014	Not completed
9	Stair climbing wheelchair for physically challenged using high grip crawlers	CTDT	25,000/-	2013	Completed
10	Ornithopter for surveillance	CTDT	25,000/-	2013	Completed
11	Low cost semi active car seat suspension system using magneto rheological fluid	CTDT	25,000/-	2013	Completed

12	Semi automated roof cleaning robot	CTDT	25,000/-	2013	Completed
13	automation of Electrochemical etching for ferrous and non-ferrous metals	CTDT	25,000/-	2013	Completed
14	Automation of bulge formation using plc	CTDT	25,000/-	2013	Completed
15	Determination of high-temperature mechanical properties of aa6061 alloy by short-term tests	CTDT	50,000/-	2013	Completed
16	Damping vibrations in prosthetic leg using magnetorheological fluids	CTDT	25,000/-	2012	Completed
17	Desalination of sea water by mechanical vapour compression	CTDT	25,000/-	2011	Completed

DEPARTMENT CONTRIBUTION:

1. NBA File Preparation and documentation has been prepared for the year 2014-15
2. Conducted two Faculty Development training Programme on Finite Element analysis and Metrology and Measurements.
3. Conducted National Workshop on Emerging Trends.