

Brief Biodata of
Dr. Pulak M. Pandey, Professor
Department of Mechanical Engineering
Indian Institute of Technology Delhi

Total Experience: Approx 22 yrs
 Experience at IITD: 13 yrs
 Professor since Jan. 2017



RESEARCH INTERESTS:

- Rapid Prototyping and Tooling, CAD/CAM
- Non-traditional Machining and Finishing
- FEA of Manufacturing Processes
- Biomedical application of RP

SUPERVISION OF STUDENT'S PROJECTS:

- Ph.D.: 27^(completed) + 2^(synopsis) + 13^(ongoing)
- M.Tech.: 34
- B.Tech. and Mini Projects: ~20

PUBLICATIONS:

- International Journal: 153 + 12^(submitted for review)
- International Peer Reviewed Conference: 42
- National Conference: 6
- Manuscript under preparation: 8^(for international journals)
- Book Chapters: 6

EDUTATIONAL BACKGROUND:

- PhD (Mech. Engg.) 2003 IIT Kanpur (India)
Area: CAD/CAM, Optimization, Rapid Prototyping and Tooling, Manufacturing Science .
- MTech (Mech. Engg.) 1995 IIT Kanpur (India)
Area: Manufacturing Science, Finite Element Method.
- BTech (Mech. Engg.) 1993 HBTI Kanpur (India).

PhD Supervision	<ol style="list-style-type: none"> 1. Dilprit Singh, Design, manufacturing and evaluation of elbow implant, June 2019. (Shared with Dr. D. Kalyanasundaram) 2. Pawan Sharma, Rapid development of porous iron scaffold with improved degradation rate and mechanical properties, March 2019. 3. Hardikkumar Shashikantbhai Beravala, Experimental investigations and modeling of magnetic field-air/gas assisted electric discharge machining, Oct. 2018. 4. Girish Chandra Verma, Experimental investigations and modeling of ultrasonic assisted end milling, Oct. 2018. 5. Lokesh Upadhyay, Experimental investigations and analysis of magneto-rheological fluid based electric discharge machining process, Sept. 2018. (Registered at YMCAUSE, Faridabad) (With Dr. M L Aggarwal) 6. Harsha Goel, Experimental investigations and modeling of ultrasonic assisted jet electrochemical micro-drilling process, July 2018. 7. Virendra Mishra, Experimental investigations and modeling of electric discharge grinding of inconel 601, April 2018. 8. Palab Biswas, Analysis of reconfigurability paradigms in supply chain perspective, March 2018. (with Prof Ravi Shankar) 9. Kheeraj Pandey, Experimental investigations and modeling of surface roughness of silicon wafer polished by chemically assisted double disk magnetic abrasive finishing, March 2018. 10. Aviral Mishra, On the modeling, simulation and optimization of ultrasonic assisted magnetic abrasive finishing process, February 2018. 11. Vipin Shukla, Experimental investigations and analysis of ultrasonic assisted magnetic abrasive finishing process with bonded abrasives and efficaciously designed electromagnet, December 2017. 12. Anil Jain, Experimental investigations and analysis of micro rotary ultrasonic machining process, May 2017. 13. Varun Sharma, Experimental investigations and modelling of ultrasonic assisted turning with self lubricating textured cutting inserts, April, 2017. 14. Nishant Singh, Experimental, investigations and analysis of air assisted electric disc machining with perforated tools, March 2017. (Registered at IIT ISM Dhanbad) 15. Vishal Gupta, Experimental investigations and modeling of ultrasonic assisted bone drilling: a vivo study, February 2017. 16. J P Singh, Rapid manufacturing and quality studies of open cell porous regular interconnected structures, March 2016. 17. Prateek Kala, Experimental investigations and modeling of double disk magnetic abrasive finishing process, March 2015. 18. Mridul Singh Rajput, Experimental investigations and modeling of ultrasonic assisted jet electrodeposition process for micro-part fabrication, December 2014 (with Dr Sunil Jha). 19. Kanwaljeet Singh, Design and development of simple orthosis for treatment of clubfoot, December 2014 (with Prof Alok Ray). 20. M K Satyarthi, Experimental investigations and modeling of electric discharge machining process, Synopsis completed, Dec 2014. 21. Anant Kumar Singh, Experimental investigations and modeling of Ball End Magneto Rheological Finishing Process, Oct 2013 (with Dr Sunil Jha). 22. Vineet Srivastava, Experimental investigations and analysis of ultrasonically assisted cryogenically cooled EDM Process, July 2013 23. Rahul S Mulik, Experimental investigations and analysis of ultrasonic assisted magnetic abrasive finishing process, May 2011. 24. K M Patel, Experimental investigations into electro discharge machining of TiC particles and SiC whiskers reinforced alumina ceramic composite, February 2011 (with Prof. P.V. Rao). 25. K Senthilkumaran, Experimental investigations and shape realizability studies in selective laser sintering, Ph.D. thesis, December 2009 (with Prof.PVM Rao). 26. P K Jain, Experimental and computational studies related to part strength in selective laser sintering, Ph.D. thesis, June 2009 (with Prof. PVM Rao) 27. S K Singhal, Optimum part deposition orientation and adaptive slicing in SL and SLS prototyping, PhD Thesis, January 2008 (with Prof. AK Nagpal)
------------------------	--

PATENT APPLICATIONS:

1. P. M. Pandey, G. Singh, J. Singh, Methodology to fabricate customized shape polymeric tubular stent. (Copyright)
2. P. M. Pandey, J. Singh, Internally Cooled EDM tool by Rapid Manufacturing.
3. P. M. Pandey, G. Singh, P Sharma, Rapid manufacturing of metal products using ultrasonic vibration assisted pressureless sintering (UAPS).
4. P.M. Pandey, V. Shukla, Ultrasonic assisted magnetic abrasive finishing with pulsating current (UAMAF-PC).
5. P.M. Pandey. P. Sharma, J.P. Singh, A Process of preparation of ordered cell metal foam.
6. Design registration granted (no. 245068) 01/11/2012: Orthosis for clubfoot.

7. D. Kalyansundaram, D. Singh, P.M. Pandey, Design of elbow prosthesis.
8. P.M. Pandey, G. Verma, P. Kala, Magnetic abrasive finishing tool for finishing internal cylindrical surfaces.
9. P.M. Pandey, A. R. Ray, K. Singh, Clubfoot deformity measuring instrument.
10. P.M. Pandey, P. Kala, S. Kumar, Double disk polishing set up for non-ferromagnetic materials.
11. P.M. Pandey, A. R. Ray, K. Singh, Orthosis for simultaneous 3D correction of clubfoot.
12. S.Jha, P.M. Pandey, A.K. Singh, Process of generating magnetically controlled ball end smart abrasive laden shape for finishing of 3d intricate shaped surfaces with stationary electromagnet.
13. P.M. Pandey, R.S. Mulik, Device for Ultrasonic Assisted Magnetic Abrasive Finishing Process and process thereof.
14. S.Jha, P. M. Pandey, A K Singh, Process of generating magnetically controlled ball end smart abrasive laden shape for finishing of 3d intricate shaped surfaces.
15. P.M. Pandey, P.V.M. Rao, K. Senthilkumaran, Fabricating more accurate SLS prototypes.
16. P.M. Pandey, P.V.M. Rao, P.K. Jain, Tailoring properties in rapid prototypes.

AWARDS AND HONORS:

- Gandhian Young Technological Innovation Award 2018.
- Four awards , Gandhian Young Technological Innovation Awards, one in 2013, two in 2015 and one in 2017.
- Outstanding research award by Additive Manufacturing Society of India, 2015.
- Editorial Board Member of The Rapid Product Development (RPD) Magazine endorsed by RP Society of India, French RP Association, Portuguese RP Association, Standard and Industrial Research Malaysia.
- B.Tech. Project titled Cryogenic Applications for Reducing Tool Wear in EDM has been recommended as Best Hardware Project, May 2009
- Outstanding Young Faculty Fellowship (IIT Delhi) sponsored by Kusuma Trust, Gibraltar.
- Highly Commended Paper Award by Rapid Prototyping Journal for the paper “Experimental investigations into the effect of delay time on part strength in Selective Laser Sintering” presented in *International Conference on Manufacturing Automation (ICMA 07)* held at National University of Singapore during May 28-30, 2007.
- Certificate of Merit for achieving first position in B.Tech. Mechanical Engineering in Kanpur University
- Merit Certificate for proficiency in Physics, by National Physics Teachers Association, 1990, nowadays it is known as Olympiad.
- Short listed for INAE Young Engineer award in 2005 & 2006.

SPONSORED PROJECTS: 4 (ongoing) +5(completed as PI)+3(completed as CoPI)

[Value of completed and ongoing projects: approx Rs. 633 Lacs]

1. Design and development of biodegradable metal implants for orthopaedic and cardiovascular applications. (Ongoing)
2. Experimental investigations and modelling of magnetic field assisted near dry EDM and magnetic field assisted powder mixed EDM process. (Co-PI: Dr. Sunil Jha) (Ongoing)
3. Development of ultrasonic assisted bone drilling machine prototype, approx. 15 Lakh. (Ongoing)
4. Design and development of magneto and electro rheological systems, Approx. 77 Lakh. PI- Dr. Sunil jha(ongoing)
5. Experimental investigations and modelling of ultrasonic assistance on jet electrochemical micro drilling process, Women Scientist Project Mentor sponsored by DST New Delhi, Approx. Rs. 27 Lakh (completed).
6. Modelling of advanced materials for simulation of transformative manufacturing processes, Sponsored by EPSRC-DST forum, Approx 240 lakh, (Partners: IISc Bangalore, IIT Guwahati, Loughborough and Oxford University UK) Dec. 2014-Dec 2017 (completed).
7. Development of CNC Magnetorheological Finishing (MRF) System, Sponsored by DST New Delhi, Rs.122.39 Lakh (PI: Dr Sunil Jha) (completed).
8. Development and fabrication of ultrasonic barrel cleaning device for artillery & AFV gun barrels, Sponsored by Army Technology Board, Approx 30 Lakh (completed).
9. Development of cryogenically cooled vibratory EDM process to machine hard materials and conducting ceramics, Sponsored by DST New Delhi, Approx 37 Lacs, Project duration: Sep 2010-Oct 2013, (Co-PI: Dr Sudarsan Ghosh and Dr Sunil Jha) (completed).
10. Experimental investigations and analysis of ultrasonic assisted magnetic abrasive finishing process, Sponsored by CSIR New Delhi, Approx 25 Lacs, Project duration: Nov 2009-Nov 2013 (Co-PI: Dr Sunil Jha) (completed).
11. Development of Biodegradable plastic composite scaffolds for bone growth through microcellular injection molding, Sponsored by DBT, Approx. 48 Lacs, PI: Prof Naresh Bhatnagar (completed).
12. Improvement of part quality in selective laser sintering by study & control of surface roughness, 11.68 Lacs, Sponsored by CSIR New Delhi (Co-PI: Prof PVM Rao) (completed).

WORK EXPERIENCE:

- Project Associate, R&D Department, IIT Kanpur from April 24, 1995 to January 30, 1996, Worked in a CSIR sponsored research project on Whisker Reinforced Particulate Composites, Ceramic Laboratory, IIT Kanpur.

- Lecturer, Department of Mechanical Engineering, Harcourt Butler Technological Institute, Kanpur from May 31, 1996 to May 30, 2001.
- Sr. Lecturer, Department of Mechanical Engineering, Harcourt Butler Technological Institute, Kanpur from May 31, 2001 to April 29, 2004.
- Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Delhi from April 30, 2004 to December 02, 2010.
- Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology Delhi from December 03, 2010 to December 2017.
- Professor, Department of Mechanical Engineering, Indian Institute of Technology Delhi from January, 2017 till date.

CONSULTANCY PROJECTS:

- Capacity Evaluation/Measurement of Rolling Mills for local industries of Kanpur, Central Excise Department, 1998-99
- Capacity Evaluation and Measurement of Reheat Induction Furnace Plants at Kanpur, Orai and Bharwa Sumerpur. Central Excise Department, 1999-2000
- Consultancy for Hans Metals Limited, Bharwa Sumerpur, Hamirpur. 1998
- Proposal has been submitted through FITT to Research Center Imarat (RCI) Hyderabad for design and development of MRAFF Machine: Sunil Jha and P M Pandey
- Initial discussions are going on with M/s Mahindra and Mahindra for design and fabrication of MRFdampers, Sunil Jha and P M Pandey
- Central Excise Department work, 0.35 Lacs, October 2010.

INVOLVEMENT WITH OUTSIDE INSTITUTES:

- Reviewer of International Journal of Advanced Manufacturing Technology , Springer Verlag
- Reviewer of Journal of Materials Processing Technology, Elsevier Sciences
- Reviewer of International Journal of Manufacturing Research, Inderscience
- Reviewer of International Journal of Machining Technology and Management, Inderscience
- Reviewer of research projects from DST, New Delhi
- Recorded on lecture on ‘Tolerance Analysis’ for IGNOU which was broadcasted live as well as it would be broadcasted later
- Invited lecture at LASTEC, New Delhi
- Invited lecture at DMSRDE Kanpur
- Invited lecture at CMTI Bangalore
- Invited lectures at IIT Kanpur
- Invited lectures at Indo US and Indo Japan workshops
- Key note lecture in 5 conference of national level
- Coordinated a course titled ‘CNC Technology’ for M.Tech. Sequential Program of UP Tech. University
- Coordinated and taught full course on ‘Rapid Product Development Technology’ for IIITDM Jabalpur.

ADMINISTRATIVE ASSIGNMENTS:

- O/I Metrology Laboratory for 1 year
- O/I Mech. Engg. Office for last 3 years (continuing)
- Active involvement with Rapid Prototyping Central Facility, IIT Delhi
- In charge, Industrial tour, December 2004
- Member of B. Tech. Project evaluation committee, 2004-05.
- P&I group convener for last 3 years (continuing)
- Member of mini-Project committee, 2006-07
- O/I In Charge of ME Library, 2006-07
- O/I Integrated Design and Manufacturing Laboratory since Sep 2007
- Program Coordinator M.Tech. (Production Engineering) since Sep 2007
- Warden, Kumaon Hostel, IIT Delhi, 2010-2015.

FUTURE RESEARCH PLANS:

- Cryogenic EDM, Machining of hard metals and ceramics.
- Ultrasonic Assisted Magnetic Abrasive Finishing: Nano finishing.
- Micro EDM tooling using RP.
- Bio-medical applications of CAD and RP.
- Laser Sintered nanocomposites for enhancing part strength in RP.
- Reverse engineering and rapid tooling facility at RP Center.

PUBLICATIONS

List of papers published

(Total citations: 4364; h-index=32; i-10 index=78) [Source: Google scholar as on 07/04/2019]

1. V Mayur, N Kumar, P K Jain, P Tandon, and P M Pandey. "On the Surface Finish Improvement in Hybrid Additive Subtractive Manufacturing Process." In Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018), pp. 443-449. Springer, Singapore, 2019.
2. K Pandey, and P M Pandey, An integrated application of chemo-ultrasonic approach for improving surface finish of Si (100) using double disk magnetic abrasive finishing. The International Journal of Advanced Manufacturing Technology, pp.1-16, 2019.
3. P Sharma, and P M Pandey. "Corrosion rate modelling of biodegradable porous iron scaffold considering the effect of porosity and pore morphology." Materials Science and Engineering: C 103 (2019): 109776.
4. G Singh, and P M Pandey. "Rapid manufacturing of copper components using 3D printing and ultrasonic assisted pressureless sintering: Experimental investigations and process optimization." *Journal of Manufacturing Processes* 43 (2019): 253-269.
5. G Singh, and P M Pandey. "Uniform and graded copper open cell ordered foams fabricated by rapid manufacturing: surface morphology, mechanical properties and energy absorption capacity." Materials Science and Engineering: A (2019): 138035.
6. G C Verma, P M Pandey, and U S Dixit. "An experimental study on surface roughness and frictional property of ultrasonic-vibration-assisted milled surface." Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science (2019): 0954406219834587.
7. K Pandey and P M Pandey, Surface roughness modeling in chemically etched polishing of Si (100) using Double Disk Magnetic Abrasive Finishing. Machining Science and Technology, 2019.
8. A Misra, P M Pandey, U S Dixit, A Roy, and V V Silberschmidt. "Multi-objective optimization of ultrasonic-assisted magnetic abrasive finishing process." The International Journal of Advanced Manufacturing Technology(2018): 1-10.
9. N Kumar, P K Jain, P Tandon and P M Pandey. Investigations on the melt flow behavior of aluminium filled ABS polymer composite for the extrusion-based additive manufacturing process. International Journal of Materials and Product Technology, 2019.
10. P Sharma, and P M Pandey. "Corrosion behaviour of the porous iron scaffold in simulated body fluid for biodegradable implant application." Materials Science and Engineering: C 99 (2019): 838-852.
11. N K Singh, P M Pandey, and K K Singh. "A semi-empirical model to predict material removal rate during air-assisted electrical discharge machining." Journal of the Brazilian Society of Mechanical Sciences and Engineering 41, no. 3 (2019): 122.
12. V Sharma, P M Pandey. Mechanistic Based Cutting Force Model during Ultrasonic Assisted Turning with Self-Lubricating Cutting Inserts. Journal of Advanced Manufacturing Systems. 2018 Nov 8.
13. H Goel, U Rath, and P M Pandey. "Modelling and simulation of ultrasonic-assisted jet electrochemical micro drilling process." Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science (2019): 0954406219834328.
14. G Singh, P M Pandey. Ultrasonic Assisted Pressureless Sintering for rapid manufacturing of complex copper components. Materials Letters. 2019 Feb 1;236:276-80.
15. N Kumar, P K Jain, P Tandon, and P M Pandey, Investigation on the effects of process parameters in CNC assisted pellet based fused layer modeling process. Journal of Manufacturing Processes, 35, 428-436, 2018.
16. N Kumar, P K Jain, P Tandon, and P M Pandey, the effect of process parameters on tensile behavior of 3D printed flexible parts of ethylene vinyl acetate (EVA). Journal of Manufacturing Processes, 35, 317-326, 2018.
17. P Sharma, and P M Pandey. Morphological and mechanical characterization of topologically ordered open cell porous iron foam fabricated using 3D printing and pressureless microwave sintering. Materials & Design, 2018.
18. A. K. Jain, P M Pandey, K Narasaiah, S Gopinath, and P V Venkitakrishnan, Effect of tool design parameters study in micro rotary ultrasonic machining process. The International Journal of Advanced Manufacturing Technology, 1-19, 2018.
19. H Goel and P M Pandey, Experimental investigations and statistical modelling of ultrasonic assisted jet electrochemical micro-drilling process with pulsed dc, Journal of Advanced Manufacturing Systems, 2018.
20. D Singh, D Kalyanasundaram and P M Pandey, Experimental assessment of biomechanical properties in human male elbow bone subjected to bending and compression loads, Journal of applied biomaterials and functional materials, 2018.
21. K Pandey and P M Pandey, Statistical modeling and surface texture study of polished silicon wafer Si (100) using chemically assisted Double Disk Magnetic Abrasive Finishing, 1-19, Silicon, 2018.
22. D Singh, A Rana, P Sharma, P M Pandey, and D Kalyanasundaram, Microwave Sintering of Ti6Al4V: Optimization of Processing Parameters for Maximal Tensile Strength and Minimal Pore Size. *Metals*, 8(12), p.1086, 2018.
23. G C Verma, and P M Pandey, Machining forces in ultrasonic-vibration assisted end milling, Ultrasonics, 2018.

24. N Kumar, P K Jain, P Tandon, and P M Pandey, Toolpath Generation for Additive Manufacturing Using CNC Milling Machine. In *3D Printing and Additive Manufacturing Technologies*, 73-82, Springer, Singapore, 2019.
25. H Beravala, and P M Pandey, Experimental investigations to evaluate the effect of magnetic field on the performance of air and argon gas assisted EDM processes. *Journal of Manufacturing Processes*, 34, 356-373, 2018.
26. P Sharma, and P M Pandey, Rapid manufacturing of biodegradable pure iron scaffold using amalgamation of three-dimensional printing and pressureless microwave sintering. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 2018.
27. N Kumar, P K Jain, P Tandon, P M Pandey. Experimental investigations on suitability of polypropylene (PP) and ethylene vinyl acetate (EVA) in additive manufacturing. *Materials Today: Proceedings*, 5(2), 4118-4127, 2018.
28. P Sharma, and P M Pandey, A novel manufacturing route for the fabrication of topologically-ordered open-cell porous iron scaffold. *Materials Letters*, 222, 160-163, 2018.
29. N Kumar, P K Jain, P Tandon, and P M Pandey. Additive manufacturing of flexible electrically conductive polymer composites via CNC-assisted fused layer modeling process. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 40(4), 175, 2018.
30. G C Verma, P M Pandey, and U S Dixit. Estimation of workpiece-temperature during ultrasonic-vibration assisted milling considering acoustic softening. *International Journal of Mechanical Sciences*, 140, 547-556, 2018.
31. N Kumar, P K Jain, P Tandon, and P M Pandey, Extrusion-based additive manufacturing process for producing flexible parts. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 40(3), 143, 2018.
32. D Singh, P M Pandey, and D Kalyanasundaram, Optimization of pressure-less microwave sintering of Ti6Al4V by response surface methodology. *Materials and Manufacturing Processes*, 1-10, 2018.
33. K Pandey and P M Pandey, Use of chemical oxidizers with alumina slurry in Double Disk Magnetic Abrasive Finishing for improving surface finish of Si (100), *Journal of Manufacturing Processes*, 32,138-150, 2018.
34. V Mishra and P M Pandey, Experimental investigations into electric discharge grinding and ultrasonic vibration-assisted electric discharge grinding of Inconel 601, *Materials and Manufacturing Processes*, 2018. (accepted)
35. V Sharma and P M Pandey, Mechanistic based cutting force model during ultrasonic assisted turning with self-lubricating cutting inserts, *Journal of Advanced Manufacturing Systems*, 2018. (Accepted)
36. K S Khas, P M Pandey, and A R Ray, Development of an orthosis for simultaneous three-dimensional correction of clubfoot deformity. *Clinical Biomechanics*, 51, 67-75, 2018.
37. M Vispute, N Kumar, P K Jain, P Tandon, and P M Pandey. "Shrinkage Compensation Study for Performing Machining on Additive Manufactured Parts." *Materials Today: Proceedings* 5, no. 9 (2018): 18544-18551.
38. A Arora, C M Arora, P M Pandey, A K Dargar, S Mukhopadhyay, and T K Ray Macro-study on Hard Anodised Aluminium Oxide (HAAO) Coated Solar Receivers. In *Concentrated Solar Thermal Energy Technologies*, 127-135, 2018.
39. A Prabhakar, G C Verma, H Krishnasamy, P M Pandey, M G Lee, and S Suwas. Dislocation density based constitutive model for ultrasonic assisted deformation. *Mechanics Research Communications*, 85, 76-80, 2017.
40. A Misra, P M Pandey, and U S Dixit. Modeling and simulation of surface roughness in ultrasonic assisted magnetic abrasive finishing process. *International Journal of Mechanical Sciences*, 133, 344-356, 2017.
41. G C Verma, P M Pandey, and U S Dixit. Modeling of static machining force in axial ultrasonic-vibration assisted milling considering acoustic softening. *International Journal of Mechanical Sciences*, 2017.
42. J P Singh, and P M Pandey. Fabrication and assessment of mechanical properties of open cell porous regular interconnected metallic structure through rapid manufacturing route. *Rapid Prototyping Journal*, 2017.
43. V Sharma, and P M Pandey. Experimental investigations and statistical modeling of surface roughness during ultrasonic-assisted turning with self-lubricating cutting inserts. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering*, 2017.
44. A Misra, P M Pandey, and U S Dixit. Modeling of material removal in ultrasonic assisted magnetic abrasive finishing process. *International Journal of Mechanical Sciences*, 131, 853-867, 2017.
45. L Upadhyay, M L Aggrawal, and P M Pandey. Performance analysis of magnetorheological fluid-assisted electrical discharge machining. *Materials and Manufacturing Processes*, 1-9, 2017.
46. N Sihag, P Kala, and P M Pandey. Analysis of Surface Finish Improvement during Ultrasonic Assisted Magnetic Abrasive Finishing on Chemically treated Tungsten Substrate. *Procedia Manufacturing* 10, 2017.
47. V Gupta, P M Pandey, A Mridha, and R K Gupta. Effect of Various Parameters on the Temperature Distribution in Conventional and Diamond Coated Hollow Tool Bone Drilling: A Comparative Study. *Procedia Engineering* 184, 2017.
48. K Pandey, P M Pandey. Chemically Assisted Polishing of Monocrystalline Silicon Wafer Si (100) by DDMAF. *Procedia Engineering* 184, 2017.
49. V Shukla, P M. Pandey, U S. Dixit, A Roy, and V Silberschmidt. Modeling of normal force and finishing torque considering shearing and ploughing effects in ultrasonic assisted magnetic abrasive finishing process with sintered magnetic abrasive powder. *Wear*, 2017.
50. P Kala, P M Pandey, GC Verma, and V Sharma. Understanding flexible abrasive brush behavior for double disk magnetic abrasive finishing based on force signature. *Journal of Manufacturing Processes*, 2017.
51. GC Verma, P Kala, and PM Pandey. "Experimental investigations into internal magnetic abrasive finishing of pipes." *The International Journal of Advanced Manufacturing Technology*. 5-8, 2017.
52. H Goel, PM Pandey. Experimental investigations into the ultrasonic assisted jet electrochemical micro-drilling process. Accepted in *Materials and Manufacturing Processes*, 2017.

53. V Gupta, PM Pandey. In-situ tool wear monitoring and its effects on the performance of porcine cortical bone drilling: a comparative in-vitro investigation. Accepted in *Mechanics of Advanced Materials and Modern Processes*, 2017.
54. P. Kala, V. Sharma, P. M. Pandey. Surface roughness modelling for Double Disk Magnetic Abrasive Finishing process. *Journal of Manufacturing Processes*. 25, 37–48, 2017.
55. V Gupta, P M Pandey, R K Gupta, A R Mridha. Rotary ultrasonic drilling on bone: A novel technique to put an end to thermal injury to bone. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 2017.
56. AK Jain, PM Pandey. Modeling of un-deformed chip thickness in RUM process and study of size effects in μ -RUM. *Ultrasonics*, 2017.
57. AK Jain, PM Pandey. Experimental investigations of ceramic machining using μ -grinding and μ -rotary ultrasonic machining processes: A comparative study. *Materials and Manufacturing Processes*, 2016.
58. NK Singh, MK Sharma, KK Singh, PM Pandey. Steps towards green manufacturing through EDM process: A review. *Cogent Engineering*, 2016.
59. NK Singh, PM Pandey, KK Singh. Experimental investigations into the performance of EDM using argon gas-assisted perforated electrodes. *Materials and Manufacturing Processes*, 2016.
60. NK Singh, PM Pandey, KK Singh. EDM with an Air-Assisted Multi-Hole Rotating Tool. *Materials and Manufacturing Processes* 31 (14), 1872-1878, 2016.
61. M K Satyarthi; P M Pandey. Processing of Al₂O₃-SiCw-TiC ceramic composite by powder mixed electric discharge grinding. *Mechanics of Advanced Materials and Modern Processes*, 2016.
62. V Gupta, P M. Pandey and Vadim V. Silberschmidt. Rotary Ultrasonic Bone Drilling: improved pullout strength and reduced damage. accepted in *Medical engineering and physics*, 2016.
63. V Gupta and P M Pandey. An in-vitro study of cutting force and torque during rotary ultrasonic bone drilling. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2016.
64. V Sharma, PM Pandey, Recent advances in turning with textured cutting tools: A review, *Journal of Cleaner Production* 137, 701-715, 2016.
65. V Gupta, PM Pandey, Experimental investigation and statistical modeling of temperature rise in rotary ultrasonic bone drilling, *Medical Engineering & Physics*, 2016.
66. V Sharma, PM Pandey, Optimization of machining and vibration parameters for residual stresses minimization in ultrasonic assisted turning of 4340 hardened steel, *Ultrasonics* 70, 172-182, 2016.
67. NK Singh, PM Pandey, KK Singh, Experimental Investigations into the Performance of EDM Using Argon Gas Assisted Perforated Electrodes, *Materials and Manufacturing Processes*, 2016.
68. V Sharma, PM Pandey, Recent advances in ultrasonic assisted turning: A step towards sustainability, *Cogent Engineering*, 2016.
69. JP Singh, PM Pandey, AK Verma, Fabrication of three dimensional open porous regular structure of PA-2200 for enhanced strength of scaffold using selective laser sintering, *Rapid Prototyping Journal* 22 (4), 2016.
70. H Goel, PM Pandey, Performance evaluation of different variants of jet electrochemical micro-drilling process, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2016.
71. AK Jain, PM Pandey, Study of Peck drilling of borosilicate glass with μ RUM process for MEMS, *Journal of Manufacturing Processes* 22, 134-150.
72. VC Shukla, PM Pandey, Experimental Investigations into Sintering of Magnetic Abrasive Powder for Ultrasonic Assisted Magnetic Abrasive Finishing Process, *Materials and Manufacturing Processes*, 2016.
73. JP Singh, PM Pandey, Fabrication and characterization of open cell porous regular interconnected metallic structure with solid core, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2016.
74. JP Singh, PM Pandey, Experimental investigations for fabrication and comparison of fatigue properties of an open cell porous regular metallic structure and with inner solid core through rapid manufacturing, 1137, 2016.
75. GC Verma, P Kala, PM Pandey, Experimental investigations into internal magnetic abrasive finishing of pipes, *The International Journal of Advanced Manufacturing Technology*, 1-12, 2016.
76. A K Jain, P M Pandey, Experimental studies on tool wear in μ -RUM process, *The International Journal of Advanced Manufacturing Technology*, 1-14, 2016.
77. V Sharma, PM Pandey, Geometrical design optimization of hybrid textured self-lubricating cutting inserts for turning 4340 hardened steel, *The International Journal of Advanced Manufacturing Technology*, 1-15, 2015.
78. V Sharma, P M Pandey, Comparative Study of Turning of 4340 Hardened Steel with Hybrid Textured Self-Lubricating Cutting Inserts, *Materials and Manufacturing Processes*, 2015.
79. V Sharma, P M Pandey, A comparative analysis of cutting force while machining 4340 hardened steel using plane and EDM textured cutting inserts, *International Journal of Applied Engineering Research*, 2015.
80. NK Singh, P M Pandey, KK Singh, EDM with Air Assisted Multi-Hole Rotating Tool, accepted for publication in *Materials and Manufacturing Processes*, 2015.
81. P Mangla, A Agarwal and P M Pandey, Factors Influencing the Information Technology Adoption in Micro, Small and Medium Enterprises (MSMEs): An Empirical Study. *International Journal of Engineering Research and Applications*, 15(2), 115-123, 2015.
82. P Mangla, A Agarwal and P M Pandey. Inventory Management Performance In MSMEs: What Factors Do Influence Them?, 2015.

83. N Sihag, P Kala, P M Pandey, Experimental investigations of chemo-ultrasonic assisted magnetic abrasive finishing process, *International Journal of Precision Technology*, 2015.
84. V Sharma, G. C. Verma, P M Pandey, Magnetic Abrasive Finishing Process: State of the Art, *International Journal of Applied Engineering Research*, 2015.
85. J P Singh, P M Pandey, Experimental investigations and statistical analysis of regular open cell porous metallic structure fabricated through rapid manufacturing, *International Journal of Materials Engineering Innovation*, 2015
86. P Kala, P M.Pandey, Magnetic tool design for effective finishing of flat paramagnetic workpiece, *International Journal of Applied Engineering Research*, 2015.
87. N Sihag, P Kala, PM Pandey, Chemo Assisted Magnetic Abrasive Finishing: Experimental Investigations, *Procedia CIRP*, 2015.
88. V Srivastava, PM Pandey, Statistical Modeling and Material Removal Mechanism of Electrical Discharge Machining Process with Cryogenically Cooled Electrode, *Procedia Materials Science*, 2014.
89. P Kala, PM Pandey, Experimental Study on Finishing Forces in Double Disk Magnetic Abrasive Finishing Process While Finishing Paramagnetic Workpiece, *Procedia Materials Science*, 2014.
90. V Gupta, PM Pandey, M P Garg, R Khanna, N K Batra, Minimization of Kerf Taper Angle and Kerf Width Using Taguchis Method in Abrasive Water Jet Machining of Marble, *Procedia Materials Science*, 2014.
91. J P Singh, P M Pandey, Fitment Study of Porous Polyamide Scaffolds Fabricated from Selective Laser Sintering, *Procedia Engineering*, 2013.
92. M K Satyarthi, P M Pandey, Comparison of EDG, Diamond Grinding, and EDM Processing of Conductive Alumina Ceramic Composite, *Materials and Manufacturing Processes*, 2013.
93. M S Rajput, P M Pandey, S Jha, Modelling of high speed selective jet electrodeposition process, *Journal of Manufacturing Processes*, 2015.
94. P Kala, PM Pandey, Experimental investigations into ultrasonic-assisted double-disk magnetic abrasive finishing of two paramagnetic materials, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2015.
95. KS Khas, PM Pandey, AR Ray, Design and development of a device to measure the deformities of clubfoot, *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*, 2015.
96. AK Singh, S Jha, PM Pandey, Performance Analysis of Ball End Magnetorheological Finishing Process with MR Polishing Fluid, *Materials and Manufacturing Processes*, 2015.
97. P Kala, PM Pandey, Comparison of finishing characteristics of two paramagnetic materials using double disc magnetic abrasive finishing, *Journal of Manufacturing Processes*, 2014.
98. V Gupta, P M Pandey, M P Garg, M. P., Khanna, R., & Batra, N. K. (2014). Minimization of kerf taper angle and kerf width using Taguchi's method in abrasive water jet machining of marble. *Procedia Materials Science*, 6, 140-149, 2014.
99. MS Rajput, P.M. Pandey, S Jha, Fabrication of nano sized grain micro features using ultrasonic assisted jet electrodeposition with pulsed current supply, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2013.
100. AK Singh, Sunil Jha, P.M. Pandey, Rheological behaviour of MR polishing fluid in ball end magnetorheological finishing process, *Magneto hydrodynamics*, 49, 2013 pp 512-515.
101. Kanwaljit S Khas, P.M. Pandey, Alok R Ray, Rapid manufacturing of a clubfoot model imitating soft tissue and bones, *Virtual and Physical Prototyping* 2013, 8(3), pp. 187-192.
102. MS Rajput, P.M. Pandey, S Jha, Micromanufacturing by selective jet electrodeposition process, *The International Journal of Advanced Manufacturing Technology*, 2013, pp. 1-7.
103. MS Rajput, P.M. Pandey, S Jha, Experimental investigations into ultrasonic-assisted jet electrodeposition process, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2013.
104. Vivek Mishra, Harsha Goel, Rahul S Mulik, P.M. Pandey, Determining work-brush interface temperature in magnetic abrasive finishing process, *Journal of Manufacturing Processes*, 2013.
105. V Srivastava, P M Pandey, Experimental investigation on electrical discharge machining process with ultrasonic-assisted cryogenically cooled electrode, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2013.
106. M K Satyarthi, P.M. Pandey, Modeling of material removal rate in Electric discharge grinding process, *International Journal of Machine Tools and Manufacture*, 2013, 74, pp. 65-73.
107. M K Satyarthi, P.M. Pandey, Comparison of EDG, diamond grinding and EDM processing of conductive alumina ceramic composite, *Material and Manufacturing Process*, 2013, 28, pp. 369-374.
108. Anant K Singh, Sunil Jha, P.M. Pandey, Mechanism of material removal in ball end magnetorheological finishing process, *Wear*, 2012.
109. Vineet Srivastava, P.M. Pandey, Study of ultrasonic assisted cryogenically cooled EDM process using sintered Cu-TiC tool tip, *Journal of Manufacturing Processes*, 2013 15(1), pp. 158-166.
110. Vineet Srivastava, P.M. Pandey, Effect of process parameters on the performances of EDM process with ultrasonic assisted cryogenically cooled electrode, *Journal of Manufacturing Processes*, 2012, 14(3), pp. 393-402.
111. Prateek Kala, Sumit Kumar, P.M. Pandey, Polishing of copper alloy using double disk ultrasonic assisted MAF process, *Material and Manufacturing Process*, 2013, 28(2), 200-206.
112. P.M. Pandey, On the rapid prototyping technologies and applications in product design and manufacturing, *Materials Science Forum*, 710, 101-109, 2012.

113. Anant K Singh, Sunil Jha, P.M. Pandey, Nanofinishing of a typical 3D ferromagnetic workpiece using ball end magnetorheological finishing process. *International Journal of Machine Tools and Manufacture*, July (2012).
114. Rahul S Mulik, P.M. Pandey, Experimental investigations and modeling of finishing force and torque in ultrasonic assisted magnetic abrasive finishing, *ASME Journal of manufacturing science and engineering*, 2012, 134(5).
115. Vineet Srivastava, P.M. Pandey, Effect of process parameters on the performances of EDM process with ultrasonic assisted cryogenically cooled electrode, *Journal of Manufacturing Processes*, 2012, 14(3), pp. 393-402.
116. Anant K Singh, Sunil Jha, P.M. Pandey, Parametric analysis of an improved ball end magnetorheological finishing process, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2012, 226(9), pp. 1550-1563.
117. K. Senthilkumaran, P.M. Pandey, P.V.M. Rao, Statistical modelling and minimization of form error in SLS prototyping, *Rapid Prototyping Journal*, 2012, 18(1), pp. 38-48.
118. Vineet Srivastava, P.M. Pandey, Performance evaluation of EDM process using cryogenically cooled electrode, *Materials and Manufacturing Processes*, 2012, 27(6), pp. 683-688.
119. Anant K Singh, Sunil Jha, P.M. Pandey, Nanofinishing of fused silica glass using ball end magnetorheological finishing tool, *Materials and Manufacturing Processes*, 2012, 27(10), pp. 1139-1144.
120. Anant K Singh, Sunil Jha, P.M. Pandey, Magnetorheological ball end finishing process, *Materials and Manufacturing Processes (2012) 27*: 389–394.
121. Rahul S Mulik, P.M. Pandey, Magnetic abrasive finishing of hardened AISI 52100 steel, *The International Journal of Advanced Manufacturing Technology*, 2011, 55(5-8), pp. 501-515.
122. Anant K Singh, Sunil Jha, P.M. Pandey, Design and development of nanofinishing process for 3D surfaces using ball end MR finishing tool, *International Journal of Machine Tools and Manufacture (2011) 51*: 142–151.
123. Rahul S Mulik, Vineet Srivastava, P.M. Pandey, Experimental investigations and modeling of temperature in the work-brush interface during ultrasonic assisted magnetic abrasive finishing process, *Materials and Manufacturing Processes 2012*, 27(1), pp. 1-9.
124. Rahul S Mulik, P.M. Pandey, Experimental investigations and optimization of ultrasonic assisted magnetic abrasive finishing process, *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, 2011, 225(8), pp. 1347-1362.
125. Rahul S Mulik, P.M. Pandey, Ultrasonic assisted magnetic abrasive finishing of hardened AISI 52100 steel using unbonded SiC abrasives." *International Journal of Refractory Metals and Hard Materials*, 2011, 29(1), pp. 68-77.
126. K. M. Patel, P.M. Pandey, P.V. Rao, Study on Machinability of Al₂O₃ Ceramic Composite in EDM Using Response Surface Methodology, *ASME Journal of engineering materials and technology*, 2011, 133(2).
127. Rahul S Mulik, P.M. Pandey, Mechanism of surface finishing in ultrasonic assisted magnetic abrasive finishing process, *Materials and Manufacturing Processes*, 2010, 25(12), pp. 1418-1427.
128. P. K. Jain, P.M. Pandey, P.V.M. Rao, Tailoring material properties in layered manufacturing, *Materials and Design*, 2010, 31 (7), pp. 3490-3498.
129. K. M. Patel, P.M. Pandey, P.V. Rao, Optimisation of process parameters for multi performance characteristics in EDM of Al₂O₃ ceramic composite, *International Journal of Advanced Manufacturing Technology*, 2010, 47(9-12), pp. 1137-1147.
130. Anand Dev, K. M. Patel, P. M. Pandey, S. Aravindan, Machining characteristics and optimization of process parameters in micro EDM of SiCp-Al composites, *International Journal of Manufacturing Research*, 2009, 4(4), pp. 458-480.
131. K. M. Patel, P.M. Pandey, P.V. Rao, Surface integrity and material removal mechanisms associated with the EDM of Al₂O₃ ceramic composite, *International Journal of Refractory Metals and Hard Materials*, 2009, 27(5), pp. 892-899.
132. P. K. Jain, P. M. Pandey, P.V.M. Rao, Selective laser sintering of clay-reinforced polyamide, *Polymer Composites*, Wiley Interscience, 2010, 31(4), pp. 732-743.
133. K. Senthilkumaran, P.M. Pandey, P.V.M. Rao, Influence of building strategies on the accuracy of parts in Selective Laser Sintering, *Materials and Design*, 2009, 30(8), pp. 2946-2954.
134. K. M. Patel, P.M. Pandey, P.V. Rao, Determination of an optimum parametric combination using surface prediction model for EDM of Al₂O₃/SiCw/TiC ceramic composite, *International Journal of Materials and Manufacturing Processes*, 2009, 24(6), pp. 675-682.
135. K. Senthilkumaran, P.M. Pandey, P.V.M. Rao, New model for shrinkage compensation in selective laser sintering, *Virtual and Physical Prototyping* , 2009, 4(2), pp. 49-62.
136. P. K. Jain, P. M. Pandey, P.V.M. Rao, Effect of delay time on part strength in selective laser sintering, *International Journal of Advanced Manufacturing Technology*, 2009, 43(1-2), pp.117-126 [impact factor: 1.779, Citations: 37]
137. S. K. Singhal, P. K. Jain, P.M. Pandey, A.K. Nagpal, Optimum part deposition orientation for multiple objectives in SL and SLS prototyping, *International Journal of Production Research*, Taylor and Francis, 2009, 47(22), pp. 6375-6396.
138. P. K. Jain, P. M. Pandey, P.V.M. Rao, Experimental investigations for improving part strength in Selective Laser Sintering, *Virtual and Physical Prototyping* , 2008, 3(3), pp. 177-188 [impact factor: 0.864, Citations: 13]
139. S. K. Singhal, P.K. Jain, P.M. Pandey, Adaptive Slicing for SLS Prototyping, *Computer Aided Design and Applications*, March 2008.
140. K. M. Patel, P.M. Pandey, P.V. Rao, Understanding the role of weight percentage and size of silicon carbide particulate reinforcement on electro-discharge machining of aluminum-based composites. *Materials and Manufacturing Processes*, 2008, 23(7), pp. 665-673.

141. V.K. Kumbhar, P. M. Pandey, P.V.M. Rao, Improved Intermediate Point Curve Model for integrating Reverse Engineering and Rapid Prototyping, *International Journal of Advanced Manufacturing Technology*, April 2007.
142. P.B. Bacchewar, S.K. Singhal, P.M. Pandey, Statistical Modeling and Optimization of surface roughness in Selective Laser Sintering Process, *Proceedings of IMechE part B, International Journal of Engineering Manufacture*, 2007, 1, pp. 35-52.
143. N. Raghunath, P. M. Pandey, Improving Accuracy through shrinkage modeling by using Taguchi method in SLS, *International Journal of Machine Tools and Manufacture*, 2007, 47, pp 985-995.
144. P.M. Pandey, N.V. Reddy, S.G. Dhande, Part Deposition Orientation Studies in Layered Manufacturing, *International Journal of Material Processing Technology*, 2007, 185(1-3), pp 125-131.
145. P.M. Pandey, N.V. Reddy, S.G. Dhande, Virtual Hybrid FDM System to Enhance Surface Finish, *Virtual and Physical Prototyping*, 2006, 1(2), pp 101-116.
146. Akanksha, K.K. Pant, P.M. Pandey, V.K. Srivastava, Absorption with an Exothermic Reaction in a Falling Liquid Film, *Journal of Chemical Engineering of Japan*, 2006, 39(12), pp 1229-1236.
147. S. K. Singhal, A. P. Pandey, P.M. Pandey, A. K. Nagpal, Optimum Part Deposition Orientation in Stereolithography, *Computer Aided Design and Applications*, 2005, 2(1-4), pp 319-328.
148. K. Thrimurthullu, P.M. Pandey, N.V. Reddy, Optimum Part Deposition Orientation in Fused Deposition Modelling, *International Journal of Machine Tools and Manufacture*, 44, 2004, pp 585-594.
149. P.M. Pandey, K. Thrimurthullu, N.V. Reddy, Optimal Part Deposition Orientation in FDM using Multi-Criteria GA, *International Journal of Production Research*, 2004, 42(19), pp. 4069-4089.
150. P.M. Pandey, N.V. Reddy, S.G. Dhande, Slicing Procedures in Layered Manufacturing: A Review, Vol. 9(5), *RP Journal*, 2003, pp. 274-288.
151. P.M. Pandey, N.V. Reddy, S.G. Dhande, Real Time Adaptive Slicing for Fused Deposition Modelling, *International Journal of Machine Tools and Manufacture*, 2003, 43(1), pp 61-71.
152. P.M. Pandey, N.V. Reddy, S.G. Dhande, Improvement of Surface Finish by Staircase Machining in Fused Deposition Modelling, *International Journal of Material Processing Technology*, 2002, 132(1), pp 323-331.
153. V.K. Jain, P.M. Dixit, P.M. Pandey, On the Analysis of Electro Chemical Spark Machining Process, *International Journal of Machine Tools and Manufacture*, 1999, Vol 39, pp 165-186.

International (refereed) conferences (Published)

1. D Singh, P M Pandey, and D Kalyanasundaram. "Mechanical Properties of the Human Elbow Bones Measured by Nanoindentation and Microindentation." In ASME 2018 International Mechanical Engineering Congress and Exposition, pp. V003T04A007-V003T04A007. American Society of Mechanical Engineers, 2018.
2. G Singh and P M Pandey, Design and Analysis of Long-Stepped Horn for Ultrasonic Assisted Sintering (AMPT-2018).
3. P K Jain and P M Pandey, On the surface finish improvement in hybrid additive subtractive manufacturing process, Innovative Design, Analysis and Development Practices in Aeronautical and Automobile Engineering (IDAD 2018).
4. D Singh, P M Pandey and D Kalyanasundaram, Pore size studies of high temperature microwave assisted powder sintered Ti6Al4V components using X-ray micro computed tomography (CT), *Proceedings of 10th International Conference on Precision, Meso, Micro and Nano Engineering (COPEN 10)*, December 07-09, 2017, at Indian Institute of Technology Madras, Chennai. ISBN 978-93-80689-28-9
5. N Kumar, P K Jain, P Tandon and P M Pandey, Experimental investigations on suitability of polypropylene (PP) And ethylene vinyl acetate (EVA) in additive manufacturing, 7th International Conference of Materials Processing and Characterization, 2017.
6. A Mishra, P M Pandey, Simulation of magnetic field in ultrasonic assisted magnetic abrasive finishing process, 39th international MATADOR Conference on advanced manufacturing, UK, 2017.
7. H Beravala, P M Pandey, Effect magnetic field on the performance of air assisted EDM, 39th international MATADOR Conference on advanced manufacturing, UK, 2017.
8. P Sharma, D K Pathak, P M Pandey, On the in-vitro degradation behaviors of Mg, Zn and Fe specimens fabricated by microwave sintering. 39th international MATADOR Conference on advanced manufacturing, UK, 2017.
9. V Gupta, P M Pandey, A R Mridha and R K. Gupta, Effect of various parameters on the temperature distribution in conventional and diamond coated hollow tool bone drilling: a comparative study, Presented in AMPT-2016, on 8-11 November, 2016, Kuala Lumpur, Malaysia.
10. K Pandey, P M Pandey. Chemically assisted polishing of monocrystalline silicon wafer Si (100) by DDMAF. Presented in AMPT-2016, on 8-11 November, 2016, Kuala Lumpur, Malaysia.
11. V Sharma, P M Pandey, A Roy, U S Dixit, Study of Surface Integrity in Conventional and Ultrasonic Assisted Turning with Self-Lubricating Cutting Inserts. 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR-2016), December 16-18, 2016 at College of Engineering., Pune, Maharashtra, INDIA.
12. N Singh, V Sharma, P M Pandey, K K Singh. Experimental investigation of effect of liquid-cum-gaseous dielectric on EDM performance. 4th International conference on Production & Industrial Engineering (CPIE-2016) at Dr. B.R Ambedkar National Institute of Technology, Jalandhar.
13. US Dixit, V Yadav, V Sharma, PM Pandey, A Roy, VV Silberschmidt. Estimation of cutting forces in conventional and ultrasonic-vibration assisted turning using inverse modelling. 4th International conference on Production & Industrial Engineering (CPIE-2016) at Dr. B.R Ambedkar National Institute of Technology, Jalandhar.

14. V Sharma, PM Pandey, Study of ultrasonic assisted turning of 4340 steel with plane and self-lubricating cutting inserts, ASME 2016 11th International Manufacturing Science and Engineering Conference, Virginia Tech., Blacksburg, USA, 2016.
15. V Sharma, PM Pandey, A comparative analysis of cutting force while machining 4340 hardened steel using plane and EDM textured cutting inserts, 2nd International conference Recent Developments in Science, Engineering and Technology, Gurgaon, India, 2015.
16. V Mishra, H Goel, PM Pandey, Modelling of Magnetic Field and Magnetic Pressure in Magnetic Abrasive Finishing Process, International Conference on Engineering and Technology Management, WASET CONFERENCE, Phuket, 2011.
17. V Srivastava, PM Pandey, Study of the Cryogenically Cooled Electrode Shape in Electric Discharge Machining Process, International Conference on Engineering and Technology Management, WASET CONFERENCE, Phuket, 2011.
18. JP Singh, PM Pandey, Rapid prototyping techniques for manufacturing porous metallic implants, International Conference on Biomaterial and Implants: Prospects and possibilities in the New Millennium (BIO 2011), July 21-23, 2011 at CSIR-CGCRI Kolkata, India.
19. AK Singh, S Jha, PM Pandey (2011) Improved ball end magnetorheological finishing process, ASME Congress, Denever, USA, Nov, 2011.
20. RS Mulik, PM Pandey (2011) Experimental investigations into the finishing force and torque in magnetic abrasive finishing process, ASME Congress, Denever, USA, Nov, 2011.
21. R Rai, PM Pandey, Determination of diameter of sintered powder due to laser exposure in SLS process by using finite element method, Proceedings of 19th International Symposium on Processing and Fabrication of Advanced Materials, Auckland, January 2011.
22. RS Mulik, PM Pandey, Experimental Study to Determine Work-Brush Interface Temperature in Magnetic Abrasive Finishing Process, Proceedings of 19th International Symposium on Processing and Fabrication of Advanced Materials, Auckland, January 2011.
23. A K Singh, S Jha, PM Pandey, A process of generating magnetically controlled ball end smart abrasive laden shape for nanofinishing of 3D intricate shaped surfaces, Proceedings of 2nd International conference on Industrial and Production Engineering, NIT Jalandhar, December 2010.
24. V Srivastava, SK Parida, PM Pandey, Surface roughness studies in selective laser sintering of glass filled polyamide, MATADOR 2010, July 14-16, 2010, Manchester University, UK.
25. AK Singh, S Jha, PM Pandey, Nanofinishing process for 3D freeform surfaces using ball end MR finishing tool, MATADOR 2010, July 14-16, 2010, Manchester University, UK.
26. PK Jain, PM Pandey, PVM Rao, Tailoring material properties in SLS, World Congress on Engineering 2010, London.
27. PK Jain, K Senthilkumaran, PM Pandey, PVM Rao, On the strength and accuracy of SLS prototypes, Indo-Russian workshop on Topical Problems in Solid Mechanics, Sponsored by DST, New Delhi and Russian Foundation for Basic Research, Russia at BITS Goa campus during November 7-11, 2008.
28. PK Jain, PB Bacchewar, PM Pandey, Effect of part bed temperature on surface roughness in SLS process, Accepted for publication and presentation in AIMTDR, 2008.
29. KM Patel, PV Rao, PM Pandey, Experimental investigations to study EDM machinability of TiC particle and SiC whisker reinforced Al₂O₃ ceramic composite, Accepted for publication and presentation in AIMTDR, 2008.
30. PK Jain, PM Pandey, PVM Rao, SLS of nano-clay polyamide powder, Invited paper presented in Indo-French workshop held at IIT Delhi from Sep 24-26, 2008.
31. K Senthilkumaran, PM Pandey, PVM Rao, Shrinkage compensation along single direction dixel space for improving accuracy in selective laser sintering, Accepted for publication and presentation in the 4th Annual IEEE Conference on Automation Science and Engineering, August 23-26, 2008, Key Bridge Marriott, Washington DC, USA.
32. K Senthilkumaran, PM Pandey, PVM Rao, DFM and process planning issues in selective laser sintering, Proceedings of International Conference on Manufacturing Automation (ICMA 07), National University of Singapore during May 28-30, 2007.
33. PK Jain, PM Pandey, PVM Rao, Experimental investigations into the effect of delay time on part strength in Selective Laser Sintering, Proceedings of International Conference on Manufacturing Automation (ICMA 07), National University of Singapore during May 28-30, 2007.
34. SK Singhal, PM Pandey, AK Nagpal, Optimization of SLS process parameters through Taguchi's technique for better surface quality, Proceedings of Global Conference on Production and Industrial Engineering, March 21-23, 2007, NIT Jalandhar.
35. PK Jain, K Senthilkumaran, PM Pandey, P. V. M. Rao, Advances in Materials for powder based Rapid Prototyping, E- Proceedings of international conference on Recent Advances in Materials and Processing, at PSG College of Technology, Coimbatore, India, December 15-16, 2006.
36. NV Reddy, PM Pandey, Enhancement of Surface Finish in Fused Deposition Modelling, Proceedings of Indo US Workshop on Rapid Manufacturing, April 17-19 2006, Bangalore, pp. 397-405 (Invited paper).
37. N Raghunath, K Senthilkumaran, PM Pandey, Study of Effects of Process Parameters on Shrinkage in SLS, Proceedings of Indo US Workshop on Rapid Manufacturing, April 17-19 2006, Bangalore, pp. 109-121 (Invited paper)

38. PM Pandey, NV Reddy, Enhancement of Surface Finish in Fused Deposition Modeling, Proceedings of 2nd international conference on Advanced Research in Virtual and Rapid Prototyping, Leiria, Portugal, October 2005 .
39. PM Pandey, NV Reddy, SG Dhande, Part Deposition Orientation Studies in Layered Manufacturing, Proceeding of International Conference on Advanced Manufacturing Technology, 2004, pp. 907-912.
40. PM Pandey, NV Reddy, SG Dhande, Surface Roughness Simulation for FDM Processed Parts, Proceedings of 18th International Conference on Computer Aided Production Engineering, IMechE, 2003, pp 413-421.
41. PM Pandey, V Srivastava, NV Reddy, SG Dhande, Surface Roughness Control by Direct Adaptive Slicing in RP Parts, Proceedings of International Conference on E Manufacturing, November 17-19, 2002 .
42. PM Pandey, BK Misra, Finite Element Analysis of IC Engine Piston and Connecting Rod using “ANSYS”, International Conference of CAD/CAM, Robotics and Factory Future, Jamia Milia Islamia, New Delhi, December 1996.

National conferences (Published)

1. M Pandey, BK Misra, A Scheme for Statistical Simulation of Experimental Data, 7th National Conference of Vijnana Parishad of India, HBTI Kanpur, 1997.
2. K Satyamurthy, P M. Pandey, Reddy NV, Gate Location and Part Quality in Injection Molding, Proceeding of National Symposium on Manufacturing Engineering in 21st century, IIT Kanpur, 2001.
3. N Raghunath, G Gopi, P M Pandey, PVM. Rao, Part Strength in Selective Laser Sintering Process, Proceedings of All India Seminar on Recent Advances in Manufacturing Technologies, October 22-23, 2005 Rourkela.
4. K Salhotra, G Chawla, S Pandey, S Aravindan, P.M. Pandey, Effect of GTAW Parameters on Weld Microstructure and Corrosion Rate of Austenitic Stainless Steel 304, Proceedings of All India Conference on RDMQM, Punjab Engineering College, 2007.
5. PVM Rao, PM Pandey, K Senthilkumaran, P.K. Jain, Improvement of strength and accuracy in selective laser sintering, Twenty second national convention of Metallurgical and Material Engineers, 23-24 Jan 2009, The Institution of Engineers (India), Andhra Pradesh State centre, Hyderabad (invited paper).
6. Vineet Srivastava, PM Pandey, N Bhatnagar, Selective laser sintering of carbon-fiber reinforced polyamide, E-proceedings of National Conference on Advanced Manufacturing Techniques, Shri Mata Vaishno Devi University, Jammu, November 2009.

Books and chapters (Published)

1. G Singh and P M Pandey, Role of Imaging Data in Additive Manufacturing for Biomedical Applications, 3D Printing in Biomedical Engineering, 2019. (Accepted)
2. J P Singh, and P M Pandey, Investigations to enhance the strength of open cell porous regular interconnect structure, In Additive Manufacturing, pp. 95-125. CRC Press, 2018.
3. V Sharma, P M Pandey, U S Dixit, A Roy, and V V Silberschmidt, Ultrasonic Assisted Turning: A Comparative Study of Surface Integrity, In Precision Product-Process Design and Optimization, pp. 337-360. Springer, Singapore, 2018.
4. 3D printing and additive manufacturing technologies. Editors: L. Jyothish Kumar, Pulak M Pandey, David Ian Wimpenny. Publisher: Springer Publications. ISBN: 978-981-13-0304-3.
5. Advances in 3D printing and additive manufacturing technologies. Editors: David Ian Wimpenny, Pulak M Pandey, L. Jyothish Kumar. Publisher: Springer Publications. ISBN: 10.1007/978-981-10-0812-2.
6. Nonconventional Finishing Technologies, Chapter: Magnetic Abrasive Finishing, Authors: Rahul S Mulik and Pulak M Pandey Editor: Mieczyslaw Korzynski Publisher: Polish Scientific Publishers PWN Warsaw, 2013.

Magazine

1. Development of an Economical and Simple Orthosis for Treatment of Clubfoot" published in 3D Print Health French Magazine June-August 2018 Edition

Personal Details:

Date of birth: 13/01/1973

Sex: Male

Martial status: Married

Residence address: M-1/2, IIT Campus, Hauz khas, New Delhi.

Contact Information: +919873938895, 011-26596083(O), 011-26591524(R), 011-26582053(Fax).

Webpage : <http://web.iitd.ac.in/~pmpandey/index.html>