BIO-DATA

Name: Dr. Pawar Padmakar Jagannath.

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Office Address: Professor & Head, Department of Production Engineering,
K. K. Wagh Institute of Engineering Education and research, Nasik

Area of Research: Process optimization, Manufacturing Automation, Tool and Die design

Educational Qualification:

Sr. No.	Degree	Specialization	College	University	Year	Mark and Class
1.	Ph.D.	Mechanical Engg.	S.V.N.I.T. Surat	S.V.N.I.T. Surat	25 Jan. 2011	Awarded
2.	M.E.	Mechanical Engg.	Govt. college of Engineering, Karad	Shivaji University Kolhapur	20 Feb. 2003	70.38 % Distinction
3.	B.E.	Production Engg.	K.K.Wagh College of Engg, Nasik	University of Pune	17 Aug. 1995	66 % Distinction

Academic Experience Details:

Organization	Designation	Period	Date of Joining with letter No.	Date of University permanent approval with letter No.
K. K. Wagh I. E. E. & R, Nasik	Professor in Production Engineering *(6th Pay Commission)*	1/6/2013 to till date	1/6/2013 KKWES/Engg/Uni. Selection/3818/2013 Dtd: 31st May, 2013	1/6/2013 CCO/4346 Dated: 11/12/2013
K. K. Wagh I. E. E. & R, Nasik	Assistant Professor in Production Engineering *(5th Pay Commission)*	1/8/2007 to 31/7/2010	1/8/2007 KKWES/Engg/078/8/2007, Dtd: 26th July, 2007	1/8/2007 CCO/App/81 Dtd: 9/10/2007
K. K. Wagh I. E. E. & R, Nasik	Senior Lecturer in Production Engineering *(5th Pay Commission)*	1/7/2005 to 31/7/2007	1/7/2005 KKWES/CO/899-6/2006, Dtd: 6th Nov. 2006	--------
K. K. Wagh I. E. E. & R, Nasik	Lecturer in Production Engineering *(5th Pay Commission)*	14/9/1996 to 30/6/2005	14/9/1996 KKWCOE/1256/97 Dtd: 28/7/97	1/8/1997 CCO/1626 Dtd: 2/7/1998
J.T.M. College of Engineering, Faizpur, Jalgaon	Lecturer in Mechanical Engineering	10/1/1996 to 13/9/1996	10/1/1996 TMES/JTMCOEF/771/96-97	--------

Administrative experience:

Organization	Administrative responsibility	Period
Savitribai Phule Pune University	Member of Board of studies (Production and Industrial Engineering)	A.Y.2018-2019 to 2023-24
K. K. Wagh IEER, Nashik	Member, College Development Committee (CDC)	A.Y. 2020-2021 to 2023-2024
K. K. Wagh IEER, Nashik	Head of Department (Production Engineering)	July 2016-Till date
K. K. Wagh IEER, Nashik	Head of Department (Robotics and Automation)	1 Oct. 2020-Till date
K. K. Wagh IEER, Nashik	Coordinator for ME (Production Engineering)	July 2011 –July 2016
K. K. Wagh IEER, Nashik	Institute level Co-ordinator of 'Alumni Association of K. K. Wagh College of Engineering, Nasik'	July 2003 – Till Date
K. K. Wagh IEER, Nashik	Institute Level NBA coordinator	July 2018 – Till date
Savitribai Phule Pune University	Assistant Director of central assessment program of University of Pune examinations for FE and SE examinations	May 2011 to May 2013

Recognition:

- Approved guide for PG and Ph. D. (Production Engg) of Savitribai Phule University of Pune
- Member of Local Investigation Committee of Savitribai Phule University of Pune

Membership of Professional Bodies: LM IIPE, LM IIIE, M IET

Google scholar Profile: https://scholar.google.com/citations?user=fWGImg4AAAAJ&hl=en

Scopus Profile: https://www.scopus.com/authid/detail.uri?authorId=56581565400

Web of Science Profile: https://publons.com/researcher/2201268/p-j-pawar-p-j-pawar/

AICTE faculty ID: 1-448026571

Publications in SCI Journals: 16

S. N	Title of paper	Name of Journal	Vol., Issue, Pages, Year	Publisher	DOI	Impact Factor (2020)	ISSN	Link
1	Multi-objective optimization of electro-chemical machining process parameters using a particle swarm optimization algorithm	Journal of Engineering Manufacture	Vol.222 (8), pp.949-958, **(2008)**	I. Mech. E. UK (Sage Publication)	10.1243/09544054JEM1158	**2.610**	0954-4054	https://journals.sagepub.com/doi/10.1243/09544054JEM1158
2	Modelling and optimization of process parameters of wire electric discharge machining	Journal of Engineering Manufacture	Vol.223 (11), pp.1431-1440 **(2009)**	I. Mech. E. UK (Sage Publication)	10.1243/09544054JEM1559	**2.610**	0954-4054	https://journals.sagepub.com/doi/10.1243/09544054JEM1559
3	Grinding process parameter optimization using non-traditional optimization algorithms	Journal of Engineering Manufacture	Vol. 224 (6), pp. 887-898 **(2009)**	I. Mech. E. UK (Sage Publication)	10.1243/09544054JEM1782	**2.610**	0954-4054	https://journals.sagepub.com/doi/10.1243/09544054JEM1782
4	Parameter optimization of a multi-pass milling process using non-traditional optimization algorithms	Applied Soft Computing	Vol.10 (2), pp.445-456 **(2010)**	Elsevier	10.1016/j.asoc.2009.08.007	**6.725**	1568-4946	https://www.sciencedirect.com/science/article/pii/S156849460900132X
5	Multi-objective optimization of grinding process parameters using particle swarm optimization algorithm	Materials and Manufacturing Processes	Vol. 25 (6), 424-431 **(2010)**	Taylor & Francis	10.1080/10426910903124860	**4.616**	1042-6914	https://www.tandfonline.com/doi/abs/10.1080/10426910903124860
6	Parameter Optimization of Ultrasonic Machining Process Using Non-traditional Optimization Algorithm	Materials and Manufacturing Processes	Vol. 25(10), 1120-1130 **(2010)**	Taylor & Francis	10.1080/10426914.2010.489788	**4.616**	1042-6914	https://www.tandfonline.com/doi/abs/10.1080/10426914.2010.489788
7	Optimization of process parameters of mechanical type advanced machining processes using a simulated annealing technique	International Journal of Materials and Product Technology	Vol. 37 (1-2), pp. 83-101 **(2010)**	Inderscience, USA	10.1504/IJMPT.2010.029461	**0.649**	0268-1900	https://www.inderscienceonline.com/doi/abs/10.1504/IJMPT.2010.029461
8	Process parameter modelling and optimization of wire electric discharge machining	Advances in Production Engineering and Management Journal	Vol. 5(3), pp. 139-150 **(2010)**	University of Moribor, Russia		**3.382**	1854-6250	http://apem-journal.org/Archives/2010/APEM5-3_139-150.pdf
9	Parameter optimization of machining processes using teaching-learning based optimization algorithm	International Journal of Advanced Manufacturing Technology	Vol.67 (5-8), pp. 995-1006 **(2013)**	Springer	10.1007/s00170-012-4524-2	**3.226**	0268-3768	https://link.springer.com/article/10.1007/s00170-012-4524-2

10	Process parameter optimization based on principal components analysis during machining of hardened steel	International Journal of Industrial Engineering Computations	Vol. 6 (3), pp.379-390 **(2015)**	Growing Science, Canada	10.5267/j.ijiec.2015.2.004	**2.455**	1923-2926	http://growingscience.com/beta/ijiec/1941-process-parameter-optimization-based-on-principal-components-analysis-during-machining-of-hardened-steel.html
11	Optimization of hole-making operations for injection mould using particle swarm optimization algorithm'	International Journal of Industrial Engineering Computations	Vol. 6 (4), PP. 433–444 **(2015)**	Growing Science, Canada	10.5267/j.ijiec.2015.6.003	**2.455**	1923-2926	http://growingscience.com/beta/ijiec/2011-optimization-of-hole-making-operations-for-injection-mould-using-particle-swarm-optimization-algorithm.html
12	Tool path planning of hole-making operations in ejector plate of injection mould using modified shuffled frog leaping algorithm	Journal of Computational Design and Engineering	Vol. 3 (3), pp. 266–273 **(2016)**	Elsevier	10.1016/j.jcde.2016.04.001	**5.860**	2288-4300	https://www.sciencedirect.com/science/article/pii/S2288430015300488
13	Improving the quality characteristics of abrasive water jet machining of marble material using multi-objective artificial bee colony algorithm	Journal of Computational Design and Engineering	Vol. 5 (3), pp.319-328 (**2018)**	Elsevier	10.1016/j.jcde.2017.12.002	**5.860**	2288-4300	https://www.sciencedirect.com/science/article/pii/S2288430017301215
14	Material Flow Optimization of Production Planning and Scheduling Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm (RCGA)	Flexible Services and Manufacturing Journal	Vol. 31 (2), pp.381-423. **(2019)**	Springer	10.1007/s10696-018-9310-5	**2.603**	1936-6582	https://link.springer.com/article/10.1007/s10696-018-9310-5
15	Investigation into burnishing to minimize heat treatment in drill manufacturing	Materials and Manufacturing Processes	Vol. 35(7), pp.817-825 **(2020)**	Taylor & Francis	10.1080/10426914.2020.1743848	**4.616**	1042-6914	https://www.tandfonline.com/doi/abs/10.1080/10426914.2020.1743848?journalCode=lmmp20
16	Production planning and scheduling problem of continuous parallel lines with demand uncertainty and different production capacities	Journal of Computational Design and Engineering	Vol. 7 (6) pp. 761-774 **(Dec. 2020)**	Oxford Press	10.1093/jcde/qwaa055	**5.860**	2288-4300	https://academic.oup.com/jcde/article/doi/10.1093/jcde/qwaa055/5871435

Publications in Scopus indexed Journals (other than the above mentioned)**: 07**

S. N	Title of paper	Name of Journal	Vol., Issue, Pages, Year	Publisher	DOI	Indexed in	ISSN	Link
17	Review on optimization of hole-making operations for injection mould using non-traditional algorithms	International Journal of Industrial Engineering & Management	Vol. 7 (1), pp. 9-14 **(2016)**	University of Novi Sad, Serbia		**Scopus**	2217-2661	http://ijiemjournal.org/images/journal/volume7/ijiem_vol7_no1_2.pdf
18	Optimal Sequence Of Hole-Making Operations Using Particle Swarm Optimization And	Engineering Review	Vol. 36 (2), pp. 187-196 **(2016)**	Univ. of Rijeka		**Scopus ESCI**	1330-9587	http://er.riteh.hr/index.php/ER/article/view/645

	Shuffled Frog Leaping Algorithm							
19	Sequence Optimization of Hole Making Operations for Injection Mould using Shuffled Frog Leaping Algorithm with Modification	Management and Production Engineering Review	Vol. 9(3), pp. 71-78. **(2018)**	MPER	10.24425/119536	**Scopus ESCI**	2080-8208	http://mper.org/images/archiwum/2018/nr3/8-dalavi.pdf
20	Determination of optimal tool path in drilling operation using modified shuffled frog leaping algorithm	International Journal for Engineering Modelling	Vol. 32 (2-4), 33-44 **(2019)**	University of Split	10.31534/engmod.2019.2-4.ri.01v	**Scopus**	1330-1365	https://hrcak.srce.hr/234625
21	Incorporating E-Assessment Tools in Teaching for Effective and Authentic Assessment	Journal of Engineering Education Transformations	Vol. 33, pp. 130-136. **(2020)**	RIT and IUCEE	10.16920/jeet/2020/v33i0/150081	**Scopus**	2349-2473	http://journaleet.org/index.php/jeet/article/view/150081
22	Improving the process performance of magnetic abrasive finishing of ss304 material using multi-objective artificial bee colony algorithm	Engineering Review	Vol. 41(1), pp. 34-49 **(2021)**	Univ. of Rijeka	10.30765/er.1511	**Scopus ESCI**	1330-9587	https://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=355677
23	Flexible job shop scheduling for press working industries with operation precedence constraint	Process integration and Optimization for Sustainability	**Feb. 2022**	Springer	10.1007/s41660-022-00222-w	**Scopus ESCI**	2509-4238	https://link.springer.com/article/10.1007/s41660-022-00222-w

Publications in other peer reviewed Journals: 08

S. N	Title of paper	Name of Journal	Vol., Issue, Pages, Year	Publisher	DOI	Indexed in	ISSN	Link
24	Multi-objective optimization of grinding process parameters using NSGA II	International Journal of Metaheuristics	Vol. 2 (2), pp. 123-140 **(2013)**	Inderscience, USA	10.1504/IJMHEUR.2013.054137	Google scholar	1755-2176	https://www.inderscience.com/info/inarticle.php?artid=54137
25	Assembly Line Balancing Using Real Coded Genetic Algorithm	International Journal of Scientific Research in Computer Science and Engineering	Vol. 2(4), pp. 1-5 **(2014)**	ISROSET		Google scholar	2320-7639	https://www.isroset.org/pdf_paper_view.php?paper_id=138&1-ISROSET-IJSRCSE-00153.pdf
26	Dynamic Machine Layout for Press Tool Operations Using Real Coded Genetic Algorithm	International Journal of Metaheuristics	Vol. 5 (2), pp. 91-114 **(2016)**	Inderscience, USA	10.1504/IJMHEUR.2016.10001069	Google scholar	1755-2176	https://www.inderscience.com/info/inarticle.php?artid=80254
27	Parametric optimization of abrasive water jet machining of glass fibre reinforced plastic composite using non-dominated sorting genetic algorithm-II	International Journal of Metaheuristics'	Vol.6 (4), pp. 334-354 **(2017)**	Inderscience, USA	10.1504/IJMHEUR.2017.10006782	Google scholar	1755-2176	https://www.inderscience.com/info/inarticle.php?artid=86982
28	Identification of factors influencing the performance of government organization's and undertakings in India	International Journal of Services Sciences	Vol. 6, No. 2, pp.162–176 **(2017)**	Inderscience, USA	10.1504/IJSSCI.2017.088754	Google scholar	1753-1446	https://www.inderscienceonline.com/doi/abs/10.1504/IJSSCI.2017.088754

	using AHP							
29	An application of TOPSIS for selection of appropriate e-Governance practices to improve customer satisfaction	Journal of Project Management	Vol 2.No. 3, pp. 93-106 **(2017)**	Growing Science	10.5267/j.jpm.2017.7.002	Web of Science	2371-8366	http://www.growingscience.com/jpm/Vol2/jpm_2017_9.pdf
30	Manufacturing Excellence for Sustainability	Annual Technical Volume	Vol. 2, pp. 27-34 **(2017)**	The Institution of Engineers (India)				https://www.ieindia.org/webui/IEI-Publication.aspx#annual-technical-volume
31	Evaluating the effect of organizational practices on work effectiveness of employees	International Journal of Management Concepts and Philosophy	Vol. 12, No. 2, pp. 133-149 (**2019)**	Inderscience, USA	10.1504/IJMCP.2019.099320	Google scholar	1478-1484	https://www.inderscienceonline.com/doi/abs/10.1504/IJMCP.2019.099320

Publications in Scopus indexed Conference Proceedings: 04

S. N	Title of paper	Name of Proceedings	Vol., Issue, Pages, Year	Publisher	DOI	ISSN	Link
1	Material flow optimization of flexible manufacturing system using real coded Genetic Algorithm (RCGA)	Materials Today Proceedings	Vol. 5 (2), pp. 7160-7167 **(2018)**	Elsevier	10.1016/j.matpr.2017.11.381	2214-7853	https://www.sciencedirect.com/science/article/pii/S2214785317326494
2	Optimization of Single Supplier Multi Buyer Multi Product Supply Chain System, Procedia Manufacturing,	Procedia Manufacturing	Vol. 26, pp. 21-28 **(2018)**	Elsevier	10.1016/j.promfg.2018.07.003	2351-9789	https://www.sciencedirect.com/science/article/pii/S2351978918306735
3	Application of AHP for Process Parameter Selection and Consistency Verification in Secondary Steel Manufacturing	Materials Today Proceedings	Vol. 5 (13), pp. 27166-27170 **(2018)**	Elsevier	10.1016/j.matpr.2018.09.027	2214-7853	https://www.sciencedirect.com/science/article/pii/S2214785318321941
4	Optimization of Supply Chain System in Multi-Product, Multi-Supplier Scenario Using Teaching-Learning-Based Optimization Algorithm	International Conference on Industrial Engineering and Operations Management	pp. 829-836 **(2020)**	IEOM Society International			http://www.ieomsociety.org/ieom2020/papers/579.pdf

Scopus indexed Book Chapters: 04

S. N	Title of Chapter	Name of Book	Vol., Issue, Pages, Year	Publisher	DOI	ISBN/ISSN	Link
1	Multi-objective Optimization Of Wire-Electric Discharge Machining Process Using Multi-objective Artificial Bee Colony Algorithm	*Book:* Advanced Engineering Optimization Through Intelligent Techniques, *Series:* Advances in Intelligent Systems and Computing,	Vol . 949, pp. 39-46 **(2019)**	Springer	10.1007/978-981-13-8196-6_4	978-981-13-8195-9	https://link.springer.com/chapter/10.1007%2F978-981-13-8196-6_4

2	Integrated Production Planning and Scheduling for Parallel Production Lines	*Book:* Advanced Engineering Optimization Through Intelligent Techniques, *Series:* Advances in Intelligent Systems and Computing,	Vol . 949, pp. 679-687 **(2019)**	Springer	10.1007/978-981-13-8196-6_59	978-981-13-8195-9	https://link.springer.com/chapter/10.1007/978-981-13-8196-6_59#:~:text=But%2C%20to%20achieve%20the%20global,coded%20genetic%20algorithm%20(RCGA).
3	Multi-response Optimization of Burnishing of Friction-Welded AA6082-T6 Using Principal Component Analysis	*Book:* Advanced Engineering Optimization Through Intelligent Techniques, *Series:* Advances in Intelligent Systems and Computing,	Vol . 949, pp. 537-551 **(2019)**	Springer	10.1007/978-981-13-8196-6_47	978-981-13-8195-9	https://link.springer.com/chapter/10.1007/978-981-13-8196-6_47
4	Optimization of Magnetic Abrasive Finishing Process Using Principal Component Analysis	*Book:* Advanced Engineering Optimization Through Intelligent Techniques, *Series:* Advances in Intelligent Systems and Computing,	Vol . 949, pp. 489-496 **(2019)**	Springer	10.1007/978-981-13-8196-6_43	978-981-13-8195-9	https://link.springer.com/chapter/10.1007/978-981-13-8196-6_43#:~:text=Principal%20component%20analysis%20(PCA)%20transforms,force%2C%20and%20normal%20magnetic%20force.

Book Chapters: 04

S. N.	Title of chapter	Name of the book	Name of Publisher	Link
1	Multi-objective optimization of multi-pass milling process parameters using artificial bee colony algorithm	'Artificial Intelligence in Manufacturing Research' Editor: Prof. J. Paulo Davim **(2010),** pp. 31-50. **ISBN:** 978-1-62618-557-9	Nova Science publishers, Inc., New York, USA.	https://novapublishers.com/shop/artificial-intelligence-in-manufacturing-research/ (Chapter 2)
2	Optimization of abrasive flow machining process using particle swarm optimization and simulated annealing algorithms			https://novapublishers.com/shop/artificial-intelligence-in-manufacturing-research/ (Chapter 3)
3	Improving the Performance of Universal Motor Using Genetic Algorithm	Recent Trends in Computer Science & Applications and Computational Mathematics **(2013) ISBN** : 978-93-5097-501-5	Himalaya Publishing House Pvt. Ltd. (India)	www.himpub.com/BookDetail.aspx?BookId=2275&NB=&Book_TitleM=Recent%20Trends%20in%20Computer%20Science%20&%20Applications%20and%20Computat... (Chapter 12)
4	Improving the performance of machining processes using Opposition based learning civilized swarm optimization	Nature-Inspired Optimization in Advanced Manufacturing Processes and Systems **(Dec. 2020)** **ISBN:** 9780367532604	CRC Press, US	https://www.taylorfrancis.com/chapters/improving-performance-machining-processes-using-opposition-based-learning-civilized-swarm-optimization-pawar-nandurkar/e/10.1201/9781003081166-6 (Chapter 6)

Paper Presented/Published in International Conferences/seminars: **58**

Sr. No.	Name of the Conference/seminar	Organizer	Date	Title of Paper
1	International Conference on Agile Manufacturing for Cleaner Product and Sustainability: Internet Solutions	University of Bangalore	14-17 Dec.2002	Minimization of Material Waste Through Optimized Strip Layout in Press Tool Operation Using Simulated Annealing.
2	International Conference on Mechanical Engineering	BUET,Dhaka, Bangladesh	26-28 Dec.2003	Development of a Software for Automated Design of Machining Fixture Using Kinematic Analysis and Synthesis https://me.buet.ac.bd/icme/icme2003/Proceedings/PDF/ICME03-AM-23.pdf
3	International Conference on Mechanical Engineering	BUET,Dhaka, Bangladesh	26-28 Dec.2003	Development of an Automatic Forging Die Design System For Two Dimensional Components https://me.buet.ac.bd/icme/icme2003/Proceedings/PDF/ICME03-AM-24.pdf
4	International conference on Operation Research Application in Infrastructure Development (Held at IISC)	Operation Research Society of India (ORSI)	27-29 Dec.2005	An Algorithm for Optimisation of Cutting Stock Problem with Irregular Shapes.
5	International conference on Global Manufacturing and Innovation	Coimbatore Institute of Technology, Coimbatore.	27-29 July,2006	Optimization of Buffer Capacity in Multi Stage and Multi Stream Process Using Gradient Based Search Algorithm.
6	International conference on Global Manufacturing and Innovation	CIT, Coimbatore.	27-29 July,2006	A Nesting Algorithm for Irregular Parts with Optimal Allocation on Varying Sheet Sizes
7	International conference on Recent Advances in Materials and Processing	PSG College of Technology, Coimbatore	15-16 Dec.2006	Optimisation of Plastic Flow in Injection Molding
8	International conference on Recent Advances in Materials and Processing	PSG College of Technology, Coimbatore	15-16 Dec.2006	Development of an Automatic Forging Die Design Using Evolutionary Optimisation
9	International conference on Advances in Manufacturing and Technology Management	Mumbai University and Parswanath C.O.E. Thane.	18-20 Jan.2007	Product Life Cycle For Manufacturing Industries: An Overview
10	International conference on System Research, Informatics and Cybernetics. (Held at Baden-Baden, Germany)	International Institute of Advance studies, Canada.	24-30, July, 2008	Multi-objective optimization of electro-chemical machining process parameters using a soft computing technique.
11	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Optimization of process parameters of grinding process using particle swarm optimization
12	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Multi-objective optimization of electro-chemical machining process parameters using artificial bee colony (ABC) algorithm
13	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Optimization of process parameters of abrasive flow machining process using artificial bee colony algorithm
14	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	15-17, Dec. 2008	Optimization of process parameters of multi-pass milling operation using particle swarm optimization
15	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	3-5, August. 2009	Cost effective selection of process parameters in multi-pass milling operation
16	4th International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	23-25, September, 2010	Parameter optimization of ultrasonic machining process using hybrid ABC-SA algorithm
17	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat & Novosibirsk State Technical University Russia	20-22 September, 2011	Multi-objective optimization of process parameters in turning operations using hybrid ABC-SA algorithm
18	Indo-Russian Joint Workshop	S. V. N. I. T. Surat	20-22	Industrial robot selection using fuzzy multiple

	On Computational Intelligence and Modern Heuristics in Automation and Robotics	and Novosibirsk State Technical University Russia	September, 2011	attribute decision making methods
19	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Evolutionary approaches in industrial automation
20	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Optimization of blank nesting in press tool operations using particle swarm optimization algorithm
21	Indo-Russian Joint Workshop On Computational Intelligence and Modern Heuristics in Automation and Robotics	S. V. N. I. T. Surat and Novosibirsk State Technical University Russia	20-22 September, 2011	Parameter optimization of abrasive water jet machining process using particle swarm optimization
22	International Conference on Artificial Intelligence and Soft Computing (held at Bhubaneswar)	Interscience Research Network	9-10, April, 2011	Minimization of material waste in press tool operations using genetic algorithm
23	International Conference on Artificial Intelligence and Soft Computing (held at Bhubaneswar)	Interscience Research Network	9-10, April, 2011	Optimization of process parameters of abrasive water jet machining process using GA with adaptive penalty method.
24	International Conference on Advances in Mechanical Engineering	S. V. N. I. T. Surat	6-8, June 2011	Multi-Objective optimization of WEDM process using SFL algorithm
25	2nd International workshop on Computational Intelligence and Modern Heuristics in Automation & Robotics	Novosibirsk State Technical University Russia	10-13, Sept. 2011	Optimum control of movement of redundant manipulators using particle swarm optimization algorithm
26	2nd International workshop on Computational Intelligence and Modern Heuristics in Automation & Robotics	Novosibirsk State Technical University Russia	10-13, Sept. 2011	Improving the performance of universal motor using hybrid ABC-SA algorithm
27	International Conference on Advance Research in Mechanical Engineering (Held at Ahemadabad, Gujarat)	Interscience Research Network	12 Feb. 2012	Multi-objective optimization of machining processes using Non-dominated sorting genetic algorithm
28	International Conference on Advance Research in Mechanical Engineering (Held at Ahemadabad)	Interscience Research Network	12 Feb. 2012	Optimization of process parameters for compression molding of glass reinforced-resin
29	International Conference on Advance Research in Mechanical Engineering (Held at Ahemadabad)	Interscience Research Network	12 Feb. 2012	Experimental Investigations on effect of process parameters of cold backward extrusion
30	International Conference on " Advanced Engineering Optimization Through Intelligent Techniques"	SVNIT Surat	1-3 July, 2013	Optimization of hole-making operations: a genetic algorithm approach
31	International Conference on " Advanced Engineering Optimization Through Intelligent Techniques"	SVNIT Surat	1-3 July, 2013	Parametric optimisation of cold backward extrusion process using teaching-learning-based optimization algorithm
32	International Conference on " Advanced Engineering Optimization Through Intellogent Techniques"	SVNIT Surat	1-3 July, 2013	Parametric optimization of die casting process using cuckoo search algorithm
33	International Conference on " Advanced Engineering Optimization Through Intellogent Techniques"	SVNIT Surat	1-3 July, 2013	Parametric optimization of compression molding process using principal component analysis (Co-author: S. P. Deshpande)
34	International Conference on Computational Intelligence	University of Mumbai	21-22 March, 2014	Assembly line balancing using real coded genetic algorithm
35	4th International Conference on	BKIT, Kota	19-20 June	Minimization of Wire Breakage in Wire Electric

	"Advance Trends in Engineering, Technology and Research" (ICATETR-2015),		2015	Discharge Machining of EN-19
36	International Conference on Mechanical & Production Engineering	IRJA Research Forum,	8 Nov. 2015	Cutting fluid selection for cylindrical grinding of glass fiber reinforced plastic material
37	International Conference on Manufacturing Excellence (3-4 March 2017) https://www.amazon.in/International-Conference-Manufacturing-Excellence-ICMAX-2017-ebook/dp/B073QMT6L4	K. K. Wagh IEER, In association with SPPU, Pune	3-4 March 2017	Plane Magnetic Abrasive Finishing of AISI-304 Stainless Steel
38				Inverse Kinematics Problems in Industrial Robotics: A Review
39				Drilling Path Optimization of Holes of Printed Circuit Board using Modified Shuffled Frog Leaping Algorithm
40				Experimental Investigation and Optimization of Control Parameters of Cooling System for an Industrial Robot Controller Cabinet
41				Optimization of Operation Allocation Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm
42				Multi-Response Optimization of Burnishing of Friction Welded Al6082-T6 using Grey Relation Analysis
43				Predicting Production Quantity by Integrating Monte Carlo Simulation and Regression Analysis
44				Ranking Organization Method for Enrichment Evaluations (PROMETHEE)
45				Analyzing Impact of E-Governance Practices and Standardized Processes on Customer Satisfaction of MHADA using TOPSIS with Reference to Pune and Nashik Board
46				Modeling and Optimization of Wire Electric Discharge Machining
47	International Conference on "Advanced Engineering Optimization Through Intelligent Techniques"	SVNIT Surat	3-5 Aug. 2018	Multi-Objective Optimization Of Wire Electric Discharge Machining Process Using Artificial Bee Colony Algorithm
48				Optimization Of Magnetic Abrasive Finishing Process Using Principal Component Analysis
49				Multi-Response Optimization Of Burnishing Of Friction Welded Aa6082-T6 Using Principal Component Analysis
50				Integrated Production Planning And Scheduling For Parallel Production Lines
51	International Conference on Recent Challenges in "Mechanical, Textile, Mining, Aerospace, and Nano-Technology"	Jawaharlal Nehru University, New Delhi	29th Sept. 2018	Aerodynamics analysis of Aircraft wing
52	Proceedings of International conference on Manufacturing Excellence (ICMAX-2019) ISBN : 978-93-88441-69-8	Organized by K. K. Wagh IEER, Nashik Sponsored by SPPU, Pune	15-16 Feb. 2019	Selection of Most Efficient Maintenance Strategy Using MADM Techniques
53				Performance Evaluation of Fuzzy Modelling Approach for Advance Manufacturing Processes
54				Material Flow Optimisation for Multistage, Multiproduct Parallel Lines by Real Coded Genetic Algorithm (RCGA)
55				Multi-response Optimization of Burnishing of Friction Welded AA6082-T6 using Taguchi, Gray Relation Analysis and Principle Component Analysis
56				Path optimization for redundant manipulator to Travelling Salesman Problem (TSP)
57	XXIII International Conference of the Society of Operations Management	IIT Kanpur	19-21 Dec. 2019	Material Flow optimization of a capacitated routing problem in a manufacturing plant by using RCGA
58	Techno-Societal 2020	SVERI, Pandharpur	11-12 Dec. 2020	Application of Meta Heuristic Algorithms for Optimization of Inverse Kinematics of a 5D Robotic Manipulator https://link.springer.com/chapter/10.1007/978-3-030-69925-3_53

Paper Presented/Published in National/regional Conferences: 10

Sr. No.	Name of the Conference	Organized by	Date	Title of Paper
1	Symposium on Manufacturing Excellence	IIT, Madras	7-8 Jan.2002	Computer Aided Design of Blanking Dies with Optimization of Strip Layout Using Simulated Annealing
2	19th Indian Engineering Congress	Institution of Engineers (India)	17-19 Dec.2004	Productivity Improvement through Automated Tool Design Using Optimization Technique
3	National Seminar on Recent Advances in Mechanical Engineering	K.K.Wagh College of Engineering, Nasik	16-17 Jan.2004	Software for Automated Design of Fixture
4	Recent Trends in Computer Science & Applications & Computational Mathematics	Indira College of commerce & Science. Pune	21-22 Dec. 2012	Improving the performance of Universal motor using genetic algorithm
5	National Conference on 'Global Competitiveness Through Quick Response Manufacturing' organised by during	GLA University Mathura and IIPE Mathura Chapter	18-20 April 2014.	Development of automatic fixture configuration using genetic algorithm
6	National Conference on 'Global Competitiveness Through Quick Response Manufacturing' organised by during	GLA University Mathura and IIPE Mathura Chapter	18-20 April 2014.	Multi-objective Optimization of Laser Beam Machining Process Parameters
7	Innovation 2014	Pune University	2 May 2014	Development of redundant manipulator system for obstacle avoidance
8	Innovation 2015	Pune University	1 July 2015	Development of redundant manipulator system for obstacle avoidance
9	Recent Trends in Computer Science & Applications & Computational Mathematics	Indira College of commerce & Science. Pune	22-23 Dec. 2016	Parametric Optimization of Cold Backward Extrusion Process using Simulated Annealing.
10	National Conference on Recent trends in Computer Science and applications	Indira College of Commerce and Science, Pune	22-23 Dec. 2017	Application of fuzzy rating scale in Industrial Robot selection

Book Authored: 02

S. N	Title of Book	Name of the author	Name of Publisher	ISBN	Link
1	Evolutionary Computations for Manufacturing	P. J. Pawar	Studium Press (I) Pvt. Ltd.	978-93-85046-52-0	https://www.abebooks.co.uk/servlet/SearchResults?isbn=9789385046520&cm_sp=mbc-_-ISBN-_-all
2	Minimization of Wire Breakage in WEDM of EN-19 Material: Optimization in Wire Electric Discharge Machining using Particle Swarm Optimization and Response Surface Methodology	K. M. Thorve, P. J Pawar	LAP LAMBERT Academic Publishing	978-62-00656-26-1	https://www.amazon.com/Minimization-Wire-Breakage-EN-19-Material/dp/6200656266

Ph. D. Thesis guided: 03 (Ongoing: 02)

Sr. No.	Name of the student	Title of Ph. D. Thesis	University	Year of passing
1	Amol M. Dalavi	Optimization of Hole Making Operation Using Advanced Optimization Techniques **(as a co-guide)**	Symbiosis International (Deemed University)	September 2017
2	R. S. Tajane	Experimental Investigation and Multi - Objective Optimization of Burnishing process	Savitribai Phule Pune University	Thesis submitted
3	Bhosale K. C.	Integrated production and material flow planning with scheduling in process industries	Savitribai Phule Pune University	Thesis submitted

M. E. Dissertation guided: 23

S.N.	Name of the student	Title of dissertation	Year of Passing
1	Mr. More Ashok D.	Nesting of curvilinear components using GA	2011
2	Mrs. Deshpande S. P.	Parametric optimization of compression molding process using PCA	2012
3	Mr. Kalal Dhiraj Rai	Multi-objective optimization of some machining processes using NSGA	2012
4	Mr. Devendra Patil	Optimization of cold backward extrusion process using SQP	2013
5	Mr. Khalkar Mangesh	Motion control of redundant manipulators for obstacle avoidance using SA	2013
6	Mr. Naik M. L.	Optimization of hole making operations: a genetic algorithm approach	2013
7	Mr. Chavan C.V.	Parametric optimization of die casting process	2013
8	Rana Hardik R.	Development of automatic fixture configuration by Genetic Algorithm	2014
9	Rajan Rajeev Kumar	Assembly line balancing using real coded genetic algorithm	2014
10	Rayate Girish B.	Multi-objective optimization of laser beam machining process parameters	2014
11	Gaidhani Yogesh Bhaskar	Experimental investigations of abrasive water jet cutting	2014
12	Mr. Thorve Kiran M	Minimization of Wire Breakage in Wire Electric Discharge Machining of EN - 19 Material	2015
13	Mr. Bhangale Jignesh	Experimental Investigations and Performance Improvement for Compression Molding of O-ring Seal	2015
14	Mr. Don Dominic Kurian	Fatigue Life Improvement with Cost Minimization Of Engine Mounting Bracket In A Sport Utility Vehicle	2016
15	Deshmukh Rahul Soma	Performance Improvement Of Hard-Chrome Electroplating Process For Mild Steel Material Through Optimum Selection Of Process Parameters	2016
16	Vidhate Umesh S.	On the improvement of quality parameters for abrasive water jet machining of marble material	2016
17	Nighot Mohit A.	Experimental investigations And Optimization Of Control Parameters Of Cooling System Used in industrial Robot Controller	2017
18	Deshmukh Arjun S.	Damage Control Of Steam Turbine Shaft Through implementation On image Processing Technology For Vibration Anaiysis	2017
19	Bansode Raj Peter	Selection Of Welding Process And Electrode For Welding Mild Steel Using Multi - Attribute Decision Making Approach	2017
20	Chetan Paraskar	Experimental Investigations and Optimization of Wire Drawing Process Parameters	2018
21	Jat Milind Vijay	Selection of most efficient maintenance strategy using MADM Techniques	2019
22	Ms. Kulkarni S. K.	Multi-Objective Optimization of Friction Welding Process for Hole Making Tools using Particle Swarm Optimization Algorithm	2020
23	Shirke P. V.	Development And Experimental Investigation Of An Aluminium/Gfrp Composite Drive Shaft For Enhancing Static Torque And Flexural Stress Using Design Of Experiments	2020

Expert Talks delivered at FDPs/STTPs: 48

S.N.	Organization	Details of the FDP/STTP	Date/s of delivery of Lecture
1	SVNIT, Surat	One week STTP on “Advanced Engineering Optimization through Intelligent Techniques” (18-22 Oct. 2021)	18 Oct. 2021 & 20 Oct. 2021
2	Sandip Polytechnic	National level AICTE sponsored One Week Induction/Refresher program on "Advanced Mechatronics System" (2-8 March 2021)	2, 4, and 6 March 2021.
3	SVNIT, Surat	One week STTP on “Advanced Engineering Optimization through Intelligent Techniques” (1-5 Sept 2020)	1-2 Sept. 2020
4	K. K. Wagh IEER	State Level Workshop on "Swarm Intelligence: Research Applications" 31 Jan-1 Feb. 2020	31 Jan. 2020
5	MIT World Peace University, Pune	One Week FDP on “Research Methodologies and Advanced optimization Techniques (16-20 Dec. 2019)	17 Dec. 2019
6	SVNIT, Surat	One week TEQUIP Sponsored STTP on “Advanced Engineering Optimization through Intelligent Techniques” (13-17 May 2019)	13-14 May 2019
7	Government College of Engineering, Jalgaon	One week TEQUIP sponsored STTP on “ Application of Soft Computing Techniques in Research” 25 Feb. - 1 March 2019	28th Feb. 2019
8	Amrutvahini College of Engineering, Sangamner	SPPU sponsored National Workshop on “Robotics and Manufacturing Automation” 22-23 Feb.2019.	22th Feb. 2019
9	Loknete Gopinathji Munde IEER, Nashik	SPPU sponsored State Level Workshop on “Research Methodology” organized by during 20-21 Dec. 2018.	20th Dec 2018
10	Bhaba Atomic Research Centre (BARC), Mumbai	3 Days workshop on “Machine Learning and Artificial Intelligence” organised for BARC Scientists, 3-5 May 2018.	5th May 2018
11	LGN Sapkal COE, Nashik	SPPU sponsored National level workshop on “Multi-objective Design optimization” 5-6 January 2018.	5th Jan. 2018
12	AVCOE Sangamner	2 week FDP on “Competitive manufacturing Technologies” 11-22	12th Dec. 2017

		December 2017.	
13	K. K. Wagh IEER Nashik	SPPU sponsored one week FDP on "Fuzzy Logic and Its Applications" 11-15 December 2017.	14th Dec. 2017
14	Symbiosis Institute of Operations Management, Nashik	National Conference on "Competitive Manufacturing strategies by Leveraging Technology" 10th Nov. 2017.	10th Nov. 2017.
15	SVNIT, Surat	one week STTP on "Advanced Engineering Optimization through Intelligent Techniques" 27-31 March 2017.	27-28 March 2017
16	Government College of Engineering, Aurangabad	one week TEQIP - STTP on "Soft Computing Techniques in Engineering Applications", (SOCTEA-2017) 15-19 February, 2017	17 Feb. 2017
17	SVNIT, Surat	One week TEQUIP Sponsored STTP on "Advanced Engineering Optimization through Intelligent Techniques" 6 -10 February 2017.	6-7 Feb.2017
18	K. K. Wagh IEER	SPPU sponsored Two day State Level Workshop on 'Mechanical Engineering Design: Trends and Practices' 27-28 Jan 2017	28 Jan 2017
19	Government Polytechnic Nashik	DTE sponsored One week STTP on 'Excellence in Manufacturing Engineering' 2-6 Jan 2017	4 Jan. 2017
20	Sinhgad College of Engineering Solapur	Solapur University sponsored one week workshop on "Optimization Techniques in Mechanical Engineering" 26 to 30 Dec. 2016.	27 Dec, 2016
21	K. K. Wagh Institute of Engineering Education and Research, Nashik.	Three days' workshop on "Soft Computing: Applications in Engineering" 8-10 Dec. 2016	8-10 Dec. 2016
22	Shivajirao S. Jondhle College of Engineering & Technology , Asangaon	ISTE approved one week STTP on "Applications of MATLAB in Engineering & Technology" 30 May-3 June 2016	1 June 2016
23	MIT College of Engineering, Pune	ISTE approved one week STTP on "Advanced Optimization Techniques for Innovative Research in Technology" 25-29 April 2016	27 April 2016
24	SND College of engineering and Research Center, Yeola	SPPU sponsored National Conference on "Research Methodology" 18-19 Feb. 2016.	18 Feb. 2019
25	NIT Agaratala	Three Days Workshop on "Recent Advancement in Soft Computing Techniques" 29 - 31 Jan 2016.	30-31 Jan 2016
26	K. K. Wagh I. E. E. & R., Nashik	one week STTP on "Optimization aspects of Robotics and Computer Integrated Manufacturing" 16st Jan- 20th Jan 2016	16-19 Jan 2016
27	JNTU, Hyderabad	Two Days Workshop on "Advanced Cognitive and other optimization Techniques" 8 - 9 Jan 2016.	8 - 9 Jan 2016
28	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique. 22st June- 26th June 2015.	22-24 June 2015
29	SRES College of Engineering	one week Workshop on "Design of Experiments and Optimization Techniques" 1-5 June 2015	5th June 2015
30	JSPM Imperial College of Engineering and Research, Wagholi, Pune	Two Days Workshop on "Thrust Areas of Research & Essential Techniques for Optimization and Modeling" 29-30 April 2015	29 April 2015
31	Amrutvahini College of Engineering, Sangamner	AICTE sponsored Two week Faculty Development Program on "Manufacturing Excellence: Path to Global Competitiveness of Indian Manufacturing Inc" 21 April-2 May 2015	28 April 2015
32	Sandip Institute of Technology and Research Centre,	One Week Workshop on "Applications of Engineering Mathematics" 20-24, April 2015	21th April 2015
33	Dnyanganga College of Engineering & Research, Narhe	SPPU sponsored Three days International Workshop on "Advances in Engineering Optimization" 29 Jan.- 31 Jan 2015.	31 Jan. 2015
34	K. C. College of Engineering and Management Studies and Research, Thane	one week STTP on "Research methodology and Technology Management" 5st Jan.- 9th Jan 2015.	6th Jan. 2015
35	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 1-5 December 2014	1-3 Dec. 2014
36	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 22-26 Sept. 2014	22-24 Sept. 2014
37	Indian Space Research Organization (ISRO) Ahmadabad	Workshop on "Advanced Engineering Optimization through Intelligent Techniques" 1-3 May 2014	1st May 2014
38	K. K. Wagh IEER, Nashik	Two days workshop on "Research Methodology: Recent trends and Applications" 11-12 April 2014	11-12 April 2014
39	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 27-31 Jan. 2014	27-29 Jan. 2014
40	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 23-27 Sept. 2013	23-25 Sept. 2013

41	Matoshri College of Engineering and Research Center, Nasik	one week workshop on "Research Methodology" 18-22 June 2013	22 June 2013
42	Government College of Engineering, Aurangabad	one week workshop on "Soft Computing Tools & its Applications in Engineering" 3-7 June 2013	6th June 2013
43	Sinhgad Institute of Technology, Lonavala	Two days workshop on "Matlab for Mechanical Engineers"27th – 28th September, 2012.	27 Sept. 2012
44	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 14-18 May. 2012	14-16 May 2012
45	Gokhale Education Society's College of Engineering, Nasik,	wo days state level seminar on "Advanced Engineering Optimization" 27th – 28th February, 2012	27 Feb. 2012
46	Guru Govind Singh Polytechnic, Nasik	MSBTE sponsored STTP on "CAD/CAM & Automation" 12-16 Dec. 2011	12 Dec. 2011
47	Government college of Engineering, Aurangabad	ISTE sponsored STTP on "Soft Computing Tools & its Applications in Engineering" 20th June to 1st July 2011	23 July 2011
48	K. K. Wagh I. E. E. & R, during	Two days state level seminar on "Advanced Engineering Optimization (ADOPT)" 1-2 February, 2010.	1-2 Feb. 2010

Invited Lectures delivered (For PG/Ph. D. Students): 06

S. N.	Name of Organization	Topic	Date	Audience
1	K. J. Somaiyya COE Mumbai	Soft Computing	20/5/2019	Research Scholars
2	Symbiosis Institute of Technology, Pune	Multi-objective optimization Techniques	31/1/2015	M. Tech (Mech) students
3	Rajarambapu Institute of Technology, Sakhrale	Multi-attribute decision making methods	17/11/2013	Faculty and M. Tech Students
4	Indira College of Commerce and Science, Pune	Robotics	1/3/2018	M. Sc. (Computer)
5	S. N. D. College of Engineering, Yeola	Advanced Statistical & Optimization Methods	19/2/2016	Faculty and PG Students
6	Pratibha College of Commerce and Computer Studies, Pune	Robotics	1/3/2018	M. Sc. (Computer)

Conferences/Workshops/Seminars organized: 11

S.N.	Name of Event	Date	Sponsored by
1	International Conference on Manufacturing Excellence (ICMAX-2021)	17-18 Sept. 2021	K. K. Wagh IEER, Nashik
2	State Level Workshop on "Swarm Intelligence: Research Applications"	31 Jan-01 Feb. 2020	K. K. Wagh IEER, Nashik
3	International Conference on Manufacturing Excellence (ICMAX-2019)	15-16 Feb. 2019	Savitribai Phule Pune University, Pune
4	Two days interdisciplinary workshop on "Artificial Intelligence: Research and Applications"	6-7 January, 2018	K. K. Wagh IEER, Nashik
5.	One week faculty development program (FDP) on "Fuzzy logic and its applications" (In association with Civil Engineering Department)	11-15 Dec. 2017	Savitribai Phule Pune University, Pune
6.	"International Conference on Manufacturing Excellence" (ICMAX-2017)	3-4 March 2017	Savitribai Phule Pune University, Pune
7.	Three days' workshop on "Soft Computing: Applications in Engineering"	8-10 December, 2016	K. K. Wagh IEER, Nashik
8.	One week workshop on "Optimization aspects of Robotics and Computer Integrated Manufacturing"	16-20 Jan 2016	K. K. Wagh IEER, Nashik
9.	Two days' workshop on "Advanced Statistical methods for Tool & Die Design"	13-14 September, 2014	K. K. Wagh IEER, Nashik
10.	Two days' workshop on "Research Methodology: Recent trends and applications"	11-12 April 2014	K. K. Wagh IEER, Nashik
11	Two days' state level seminar on "Advanced Engineering Optimization (ADOPT)"	1-2 February, 2010	Savitribai Phule Pune University, Pune

Patents: 03

SN	Title of patent	Inventors	Application ID	Status	Link
1	Damage control of steam turbine	P. J. Pawar,	TEMP/E-1/14624/2018-	Published	http://www.ipindia.nic.i

	shaft though implementation of image processing technology for vibration analysis Application No.201821014403 A	A. S. Deshmukh, N. S. Wakchaure	MUM The Patent Office Journal No. 19/2018 Dated 11/05/2018		n/writereaddata/Portal /IPOJournal/1_2611_ 1/Part-1.pdf pp. 17572
2.	Processes Design of spring for Switch Gear Application Application No.201821014382 A	P. J. Pawar, M. P. Naik, S. D. Yeole, A. P. Taskar, V. S. Gaikwad	TEMP/E-1/14603/2018-MUM The Patent Office Journal No. 19/2018 Dated 11/05/2018	Published	http://www.ipindia.nic.in/writereaddata/Portal /IPOJournal/1_2611_ 1/Part-1.pdf pp. 17571
3	Cylindrical Magnetic Abrasive Finishing Machine Application No.201821014406 A	S. B. Gunjal, P. J. Pawar	TEMP/E-1/14628/2018-MUM The Patent Office Journal No. 19/2018 Dated 11/05/2018	Published	http://www.ipindia.nic.in/writereaddata/Portal /IPOJournal/1_2611_ 1/Part-1.pdf pp. 17577

Funded projects: 03

S. N.	Title of research Proposal	Funding agency	Year	Amount	Status
1	Development of redundant robot manipulator system with optimum movement control for obstacle avoidance	Savitribai Phule Pune University, Pune	2013-15	Rs. 190000/-	Completed
2	PLC based electro-hydraulic trainer	AICTE (MODROB)	2014-15	Rs. 588235/-	Completed
3	Experimental Investigations with Magnetic Abrasive Finishing (MAF) processes for nano-metric surface finish of hard to machine Metals (Co-investigator)	Savitribai Phule Pune University, Pune	2015-17	Rs. 170000/-	Completed

Workshops/Seminars attended: 12

Sr. No.	Title of Workshop/seminar/STTP	Organizer	Date
1	Syllabus implementation of B.E. Production Engineering 2008 course of University of Pune	D. Y. Patil college of Engineering	4 August 2011
2	Indo-Russian joint workshop on "Computational Intelligence and Modern Heuristics in Automation and Robotics"	S. V. N. I. T., Surat. (sponsored by DST & RFBR)	20-22, September, 2010
3	Multi-criteria decision making and its Industrial applications	S. V. N. I. T., Surat.	4-5 October 2008
4	Product Life Management Using CAD	Indo-US Collaboration for Engineering Education	14-18 July 2008
5	'Advanced Engineering Optimization through Intelligent Techniques'	S. V. N. I. T., Surat. (sponsored by AICTE)	16-20 June. 2008
6	Supply Chain Management	K. K. Wagh IEER, Nashik	18th Feb. 2006
7	Computer Integrated Product Design	Sant Gajanan Maharaj COE, Shegaon, Maharashtra. (Approved by AICTE and ISTE)	4-8 Dec.2006
8	Leveraging PLM for becoming Manufacturing Destination of the World	Genba Sopanrao Moze College of Engineering, Balewadi Pune	11 March 2006
9	Supply Chain Management	K.K.Wagh College of Engineering, Nasik.	18 Feb.2006
10	Industrial Automation Using Robotics and PLC	Singhgad College of Engineering, Pune	12-13 April.2006
11	Man Machine Interaction with Special Emphasis on Automobile and Ancillary Manufacturing	Institution of Engineers, (India)	1-2 Oct.2005
12	Advances in Manufacturing System and Industrial Automation	K.K.Wagh College of Engineering, Nasik (Sponsored by AICTE and ISTE)	16-21 June.2003

Industrial Training: 02

Sr. No	Organization	Period
1.	Hindustan Aeronautics Limited, Nasik	29th Aug.- 3rd Sept. 2005
2.	Crompton Greaves Limited	26th Dec.2000 – 8th Jan. 2001

Software Training: 02

Sr. No	Organization	Name of Course	Period
1.	Rolta (I) Ltd, Mumbai	Pro-E (CAD/CAM/CAE)	19-23, April 2004
2.	Nexus (P) Ltd. Pune	TOP SOLID (Basic Design, Mold and Progress)	21-24, Oct.2005

Computer awareness:

a) Programming languages known: C, Auto-Lisp

b) Software handled: Auto-cad, Pro-E, MATLAB, and Top-solid, ANSYS

Dr. P. J. Pawar