

BIO-DATA

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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
J.T.M. College of Engineering, Faizpur, Jalgaon	Lecturer in Mechanical Engineering	10/1/1996 to 13/9/1996
K. K. Wagh I. E. E. & R, Nasik	Lecturer in Production Engineering	14/9/1996 to 30/6/2005
K. K. Wagh I. E. E. & R, Nasik	Senior Lecturer in Production Engineering	1/7/2005 to 31/7/2007
K. K. Wagh I. E. E. & R, Nasik	Assistant Professor in Production Engineering	1/8/2007 to 30/9/2010
K. K. Wagh I. E. E. & R, Nasik	Associate Professor in Production Engineering	1/10/2010 to 31/5/2013
K. K. Wagh I. E. E. & R, Nasik	Professor in Production Engineering	1/6/2013 to 31/10/2023
K. K. Wagh I. E. E. & R, Nasik	Professor in Robotics and Automation	6/11/2023 to till date

Administrative experience:

Organization	Administrative responsibility	Period
Savitribai Phule Pune University	Member of Board of studies (Production and Industrial Engineering)	A.Y. 2018-2019 to A Y 2022-23
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 2016-30/11/2023
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

Other appointments

- 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, M RSI

Google scholar Profile: <https://scholar.google.com/citations?user=fWGImq4AAAAJ&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 / SCIE Journals: 17

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 (SJR: 0.632) Q1	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 (SJR: 0.632) Q1	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 (SJR: 0.632) Q1	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 (SJR: 1.882) Q1	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 (SJR: 1.059) Q1	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 (SJR: 1.059) Q1	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 (SJR: 0.195) Q3	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 (SJR: 0.724)	0268-3768	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 (SJR: 0.774) Q1	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 (SJR: 0.787) Q1	1923-2926	http://growing-science.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 (SJR: 0.787) Q1	1923-2926	http://growing-science.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 (SJR: 0.85) Q2	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 (SJR: 0.85) Q1	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 (SJR: 0.778) Q1	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 (SJR: 1.059) Q1	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	6.167 (SJR: 0.85) Q1	2288-4300	https://academic.oup.com/jcde/article/doi/10.1093/jcde/qwaa055/5871435
17	Minimizing cycle time and energy consumption for a multi-degree serial manipulator using Teaching Learning-Based Optimization	Journal of the Brazilian Society of Mechanical Sciences and Engineering	Vol. 45(5), Article 263 (2023)	Springer	doi.org/10.1007/s40430-023-04192-z	2.361 (SJR: 0.445) Q2	1678-5878	Minimizing cycle time and energy consumption for a multi-degree serial manipulator using teaching-learning-based optimization SpringerLink

Publications in Scopus indexed Journals (other than the above mentioned): 13

S. N	Title of paper	Name of Journal	Vol., Issue, Pages, Year	Publisher	DOI	Indexed in	ISSN	Link
18	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 ESCI (SJR: 0.474) Q2	2217-2661	http://ijiemjournal.org/images/journal/volume7/ijiem_vol7_no1_2.pdf
19	Optimal Sequence Of Hole-Making Operations Using Particle Swarm	Engineering Review	Vol. 36 (2), pp. 187-196 (2016)	Univ. of Rijeka		Scopus ESCI (SJR: 0.169)	1330-9587	http://er.riteh.hr/index.php/ER/article/view/645

	Optimization And Shuffled Frog Leaping Algorithm					Q3		
20	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	Scopus ESCI (SJR: 0.362) Q2	2371-8366	http://www.growin-gscience.com/ipm/Vol2/ipm_2017_9.pdf
21	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	10.2442/5/119536	Scopus ESCI (SJR: 0.381) Q2	2080-8208	http://mper.org/images/archiwum/2018/nr3/8-dalavi.pdf
22	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	10.3153/4/engmod.2019.2-4.r.01v	Scopus (SJR: 0.193) Q2	1330-1365	https://hrcak.srce.hr/234625
23	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	10.1692/0/jeet/2020/v33i0/150081	Scopus (SJR: 0.21) Q3	2349-2473	http://journaleet.org/index.php/jeet/article/view/150081
24	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	10.3076/5/er.1511	Scopus ESCI (SJR: 0.169) Q4	1330-9587	https://er.riteh.hr/index.php/ER/article/view/1511
25	Flexible job shop scheduling for press working industries with operation precedence constraint	Process integration and Optimization for Sustainability	Vol 6, pp. 409-430 Feb. 2022	Springer	10.1007/s41660-022-00222-w	Scopus ESCI (SJR: 0.469) Q2	2509-4238	https://link.springer.com/article/10.1007/s41660-022-00222-w
26	Optimal Drilling Sequences for Rectangular Hole Matrices Using Modified Shuffled Frog Leaping Algorithm	International Journal of Industrial Engineering & Production Research	Vol. 33 (4), pp. 1-10 (2022)	Iran University of Science and Technology	10.22068/ijiepr.33.3.7	Scopus (SJR: 0.2) Q3	2008-4889	http://ijiepr.iust.ac.ir/article-1-1297-en.pdf
27	Research Progress on Industrial Robots: A Review	Recent Patents on Mechanical Engineering	Vol. 19 (1), pp. 27-61, (Nov. 2024)	Bentham Science	10.2174/0122127976326652241018114550	Scopus (SJR: 0.16) Q4	2212-7976	https://www.benthamdirect.com/content/journals/meng/10.2174/0122127976326652241018114550
28	Investigations into effect of waiting time in integrated machine scheduling and automated guided vehicles scheduling	International Journal on Interactive Design and Manufacturing	Vol 19, pp.6707–6724, Feb. 2025	Springer	10.1007/s12008-025-02248-z	Scopus (SJR: 0.493) Q2	1955-2505	https://link.springer.com/article/10.1007/s12008-025-02248-z
29	Minimizing Wire Breakage in Wire Electric Discharge Machining Using Multi-Objective Artificial Bee Colony Algorithm	Material and Mechanical Engineering Technology	Issue 4, 2025, pp. 110-121 Dec. 2025	Republic of Kazakhstan	10.5220/9/2706-977X_2025_4_110	Scopus (SJR: 0.143) Q4	2706-977X	https://mmet.kstu.kz/download/articles/30122025042625_journalFile.pdf
30	Motion planning of multi degree serial manipulator with dynamic constraints using fuzzy particle swarm optimization	International Journal on Interactive Design and Manufacturing	Volume 20, pp. 1709–1722 (2026)	Springer	10.1007/s12008-025-02482-5	Scopus (SJR: 0.493) Q2	1955-2505	https://link.springer.com/article/10.1007/s12008-025-02482-5

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
31	Multi-objective optimization of grinding process parameters using NSGA II	International Journal of Metaheuristic s	Vol. 2 (2), pp. 123-140 (2013)	Inderscience , USA	10.1504/IJMHEU R.2013. 054137	Google scholar	1755-2176	https://www.inderscience.com/info/article.php?artid=54137
32	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
33	Dynamic Machine Layout for Press Tool Operations Using Real Coded Genetic Algorithm	International Journal of Metaheuristic s	Vol. 5 (2), pp. 91-114 (2016)	Inderscience , USA	10.1504/IJMHEU R.2016. 10001069	Google scholar	1755-2176	https://www.inderscience.com/info/article.php?artid=80254
34	Parametric optimization of abrasive water jet machining of glass fibre reinforced plastic composite using non-dominated sorting genetic algorithm-II	International Journal of Metaheuristic s	Vol.6 (4), pp. 334-354 (2017)	Inderscience , USA	10.1504/IJMHEU R.2017. 10006782	Google scholar	1755-2176	https://www.inderscience.com/info/article.php?artid=86982
35	Identification of factors influencing the performance of government organization's and undertakings in India using AHP	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
36	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
37	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	Materials Today Proceedings	Vol. 5 (13), pp. 27166-27170	Elsevier	10.1016/j.matpr.2018.09.027	2214-7853	https://www.sciencedirect.com/science/article/pii/S2214785318321941

	Verification in Secondary Steel Manufacturing		(2018)				
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		2169-8767	http://www.ieomsociety.org/ieom2020/papers/579.pdf

Book Chapters (Scopus indexed): 08

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	<i>Book:</i> Advanced Engineering Optimization Through Intelligent Techniques, <i>Series:</i> 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/10.1007/978-981-13-8196-6_4
2	Integrated Production Planning and Scheduling for Parallel Production Lines	<i>Book:</i> Advanced Engineering Optimization Through Intelligent Techniques, <i>Series:</i> 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	<i>Book:</i> Advanced Engineering Optimization Through Intelligent Techniques, <i>Series:</i> 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	<i>Book:</i> Advanced Engineering Optimization Through Intelligent Techniques, <i>Series:</i> 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.
5	Trajectory Optimization of an Industrial Robot Using Teaching Learning Based Optimization PP. 677-686	<i>Book:</i> Advanced Engineering Optimization Through Intelligent Techniques, <i>Series:</i> Lecture Notes	PP. 677-686 (2023)	Springer	10.1007/978-981-19-9285-8_63	978-981-19-9284-1	Trajectory Optimization of an Industrial Robot Using Teaching-Learning-Based Optimization SpringerLink

		in Mechanical Engineering					
6	Material Flow Optimization of a Machine Loading Problem	Book: Advanced Engineering Optimization Through Intelligent Techniques, Series: Lecture Notes in Electrical Engineering	pp. 164-172 (Oct. 2024)	Springer	10.1007/978-981-97-4654-5_15	978-981-97-4653-8	https://link.springer.com/chapter/10.1007/978-981-97-4654-5_15
7	Genetic Algorithm Application for Improving the Performance of Teaching Learning Process Through Collaborative Learning	Lecture Notes in Networks and Systems	Vol. 1089, pp. 321-335 (Oct. 2024)	Springer	10.1007/978-981-97-6036-7_27	978-981-97-6035-0	https://link.springer.com/chapter/10.1007/978-981-97-6036-7_27
8	Automatic Selection of Controller Mode for Self-balancing Robot	Lecture Notes in Electrical Engineering	Vol. 1438, pp. 183-194 (Oct. 2025)	Springer	10.1007/978-981-96-8070-2_15	978-981-96-8070-2	https://link.springer.com/chapter/10.1007/978-981-96-8070-2_15

Book Chapters (Peer reviewed): 06

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 pp. 81-101	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)
5	Material flow optimization in Manufacturing plant by RCGA	Studies in Quantitative Decision Making, Asset Analytics, (March 2022) ISBN: 978-981-16-5820-4 pp.99-111	Springer	https://link.springer.com/chapter/10.1007/978-981-16-5820-4_5
6	Particle Swarm Optimization Based Simulated Annealing Approach for Robot Inverse Kinematic Solutions	Annual Technical Volume VI "Applications of Machine Learning, Deep Learning and Artificial Intelligence in Manufacturing - The Way Forward" Chapter 1, pp. 9-14 (2023)	Institution of Engineers (India)	https://www.ieindia.org/webui/IEI-Publication.aspx#annual-technical-volume

Publications in Conference Proceedings (62)

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, pp.
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 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	Industrial robot selection using fuzzy multiple 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	S. V. N. I. T. Surat and Novosibirsk	20-22 September,	Optimization of blank nesting in press tool operations using particle swarm optimization

	and Modern Heuristics in Automation and Robotics	State Technical University Russia	2011	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 Intelligent 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 Intelligent 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 "Advance Trends in Engineering, Technology and Research" (ICATETR-2015),	BKIT, Kota	19-20 June 2015	Minimization of Wire Breakage in Wire Electric Discharge Machining of EN-19
36	43 rd IRF International Conference on Mechanical & Production Engineering	IRJA Research Forum,	8 Nov. 2015	Cutting fluid selection for cylindrical grinding of glass fiber reinforced plastic material, pp. 30-36
37	International Conference on Agile Manufacturing and Agile Software Development,	SGGS IET, Nanded	Oct. 2016	Material Flow Optimization of flexible Manufacturing Systems using Real Coded Genetic Algorithm, ISBN: 978-93-86256-04-1, pp. 304-308
38				Plane Magnetic Abrasive Finishing of AISI-304 Stainless Steel
39				Inverse Kinematics Problems in Industrial

40	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	Robotics: A Review
41				Drilling Path Optimization of Holes of Printed Circuit Board using Modified Shuffled Frog Leaping Algorithm
42				Experimental Investigation and Optimization of Control Parameters of Cooling System for an Industrial Robot Controller Cabinet
43				Optimization of Operation Allocation Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm
44				Multi-Response Optimization of Burnishing of Friction Welded Al6082-T6 using Grey Relation Analysis
45				Predicting Production Quantity by Integrating Monte Carlo Simulation and Regression Analysis
46				Ranking Organization Method for Enrichment Evaluations (PROMETHEE)
47				Analyzing Impact of E-Governance Practices and Standardized Processes on Customer Satisfaction of MHADA using TOPSIS with Reference to Pune and Nashik Board
48	International Conference on "Advanced Engineering Optimization Through Intelligent Techniques"	SVNIT Surat	3-5 Aug. 2018	Modeling and Optimization of Wire Electric Discharge Machining
49				Multi-Objective Optimization Of Wire Electric Discharge Machining Process Using Artificial Bee Colony Algorithm
50				Optimization Of Magnetic Abrasive Finishing Process Using Principal Component Analysis
51				Multi-Response Optimization Of Burnishing Of Friction Welded Aa6082-T6 Using Principal Component Analysis
52	International Conference on Recent Challenges in "Mechanical, Textile, Mining, Aerospace, and Nano-Technology"	Jawaharlal Nehru University, New Delhi	29th Sept. 2018	Integrated Production Planning And Scheduling For Parallel Production Lines
53	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	Aerodynamics analysis of Aircraft wing
54				Selection of Most Efficient Maintenance Strategy Using MADM Techniques
55				Performance Evaluation of Fuzzy Modelling Approach for Advance Manufacturing Processes
56				Material Flow Optimisation for Multistage, Multiproduct Parallel Lines by Real Coded Genetic Algorithm (RCGA)
57				Multi-response Optimization of Burnishing of Friction Welded AA6082-T6 using Taguchi, Gray Relation Analysis and Principle Component Analysis
58	XXIII International Conference of the Society of Operations Management	IIT Kanpur	19-21 Dec. 2019	Path optimization for redundant manipulator to Travelling Salesman Problem (TSP)
59	Techno-Societal 2020	SVERI, Pandharpur	11-12 Dec. 2020	Material Flow optimization of a capacitated routing problem in a manufacturing plant by using RCGA
60	International Conference on "Advanced Engineering Optimization Through Intelligent Techniques"	SVNIT Surat	28-30 Jan. 2022	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
61	International Conference on "Advanced Engineering Optimization Through Intelligent Techniques" (Online)	SVNIT Surat	28-30 Sept. 2023	Trajectory optimization of an Industrial Robot using TLBO
62	International Conference on "Advanced Engineering Optimization Through Intelligent Techniques" (Online)	SVNIT Surat	28-30 Nov. 2024	Particle Swarm Optimization based Simulated Annealing Approach for Robot Inverse Kinematic Solutions. (Paper presented)
				Automatic selection of controller mode for self-balancing

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 & Year	Link
1	Evolutionary Computations for Manufacturing	P. J. Pawar	Studium Press (I) Pvt. Ltd.	978-93-85046-52-0 (2019)	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:	K. M. Thorve, P. J Pawar	LAP LAMBERT Academic Publishing	978-62-00656-26-1 (2020)	https://www.amazon.co.uk/Minimization-Wire-Breakage-EN-19-Material/dp/6200656266

Ph. D. Thesis guided: 05

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	July 2021
3	Bhosale K. C.	Integrated production and material flow planning with scheduling in process industries	Savitribai Phule Pune University	July 2021
4	Gunjal S. B.	Experimental Investigations into magnetic abrasive finishing process for nano-metric surface finish on hard to machine materials	Savitribai Phule Pune University	April 2023
5	Shinde V. B.	Motion Planning of Higher DOF Robots for Manufacturing Applications through Fuzzy Multi-Objective Optimization	Savitribai Phule Pune University	Dec.2023

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 Analysis	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: 52

S.N.	Organization	Details of the FDP/STTP	Date/s of delivery of Lecture
1	Thakur College of Engineering, Mumbai	ISTE Sponsored One week FDP on "Industry 5.0: Human Centric sustainable and Resilient Manufacturing" (15 th – 20 th June, 2026)	15 th June 2026
2	SVNIT, Surat	Int. Conf. on Advanced Engineering Optimization through Intelligent Techniques	30 Nov. 2024
3	Amrutvahini COE, Sangamner	Robotics Society of India Sponsored Three days National workshop on "Recent Advances in Robotics" (16-18 March 2023)	16 th March 2023
4	SVNIT, Surat	One week STTP on "Advanced Engineering Optimization through Intelligent Techniques" (26-30 Sept. 2022)	26 th Sept. & 28 th Sept.. 2022
5	SVNIT, Surat	One week STTP on "Advanced Engineering Optimization through Intelligent Techniques" (18-22 Oct. 2021)	18 Oct. 2021 & 20 Oct. 2021
6	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.
7	SVNIT, Surat	One week STTP on "Advanced Engineering Optimization through Intelligent Techniques" (1-5 Sept 2020)	1-2 Sept. 2020
8	K. K. Wagh IEER	State Level Workshop on "Swarm Intelligence: Research Applications" 31 Jan-1 Feb. 2020	31 Jan. 2020
9	MIT World Peace University, Pune	One Week FDP on "Research Methodologies and Advanced optimization Techniques (16-20 Dec. 2019)	17 Dec. 2019
10	SVNIT, Surat	One week TEQUIP Sponsored STTP on "Advanced Engineering Optimization through Intelligent Techniques" (13-17 May 2019)	13-14 May 2019
11	Government College of Engineering, Jalgaon	One week TEQUIP sponsored STTP on " Application of Soft Computing Techniques in Research" 25 Feb. - 1 March 2019	28 th Feb. 2019
12	Amrutvahini College of Engineering, Sangamner	SPPU sponsored National Workshop on "Robotics and Manufacturing Automation" 22-23 Feb.2019.	22 th Feb. 2019
13	Loknete Gopinathji Munde IEER, Nashik	SPPU sponsored State Level Workshop on "Research Methodology" organized by during 20-21 Dec. 2018.	20 th Dec 2018

14	Bhaba Atomic Research Centre (BARC), Mumbai	3 Days workshop on "Machine Learning and Artificial Intelligence" organised for BARC Scientists, 3-5 May 2018.	5 th May 2018
15	LGN Sapkal COE, Nashik	SPPU sponsored National level workshop on "Multi-objective Design optimization" 5-6 January 2018.	5 th Jan. 2018
16	AVCOE Sangamner	2 week FDP on "Competitive manufacturing Technologies" 11-22 December 2017.	12 th Dec. 2017
17	K. K. Wagh IEER Nashik	SPPU sponsored one week FDP on "Fuzzy Logic and Its Applications" 11-15 December 2017.	14 th Dec. 2017
18	Symbiosis Institute of Operations Management, Nashik	National Conference on "Competitive Manufacturing strategies by Leveraging Technology" 10 th Nov. 2017.	10 th Nov. 2017.
19	SVNIT, Surat	one week STTP on "Advanced Engineering Optimization through Intelligent Techniques" 27-31 March 2017.	27-28 March 2017
20	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
21	SVNIT, Surat	One week TEQUIP Sponsored STTP on "Advanced Engineering Optimization through Intelligent Techniques" 6-10 February 2017.	6-7 Feb.2017
22	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
23	Government Polytechnic Nashik	DTE sponsored One week STTP on 'Excellence in Manufacturing Engineering' 2-6 Jan 2017	4 Jan. 2017
24	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
25	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
26	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
27	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
28	SND College of engineering and Research Center, Yeola	SPPU sponsored National Conference on "Research Methodology" 18-19 Feb. 2016.	18 Feb. 2019
29	NIT Agaratala	Three Days Workshop on "Recent Advancement in Soft Computing Techniques" 29 - 31 Jan 2016.	30-31 Jan 2016
30	K. K. Wagh I. E. E. & R., Nashik	one week STTP on "Optimization aspects of Robotics and Computer Integrated Manufacturing" 16 st Jan- 20 th Jan 2016	16-19 Jan 2016
31	JNTU, Hyderabad	Two Days Workshop on "Advanced Cognitive and other optimization Techniques" 8 - 9 Jan 2016.	8 - 9 Jan 2016
32	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique. 22 st June- 26 th June 2015.	22-24 June 2015
33	SRES College of Engineering	one week Workshop on "Design of Experiments and Optimization Techniques" 1-5 June 2015	5 th June 2015
34	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
35	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
36	Sandip Institute of Technology and Research Centre,	One Week Workshop on "Applications of Engineering Mathematics" 20-24, April 2015	21 th April 2015
37	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
38	K. C. College of Engineering and Management Studies and Research, Thane	one week STTP on "Research methodology and Technology Management" 5 st Jan.- 9 th Jan 2015.	6 th Jan. 2015
39	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 1-5 December 2014	1-3 Dec. 2014
40	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 22-26 Sept. 2014	22-24 Sept. 2014
41	Indian Space Research Organization (ISRO) Ahmadabad	Workshop on "Advanced Engineering Optimization through Intelligent Techniques" 1-3 May 2014	1 st May 2014
42	K. K. Wagh IEER, Nashik	Two days workshop on "Research Methodology: Recent trends and Applications" 11-12 April 2014	11-12 April 2014
43	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through	27-29 Jan. 2014

		Intelligent Technique", 27-31 Jan. 2014	
44	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 23-27 Sept. 2013	23-25 Sept. 2013
45	Matoshri College of Engineering and Research Center, Nasik	one week workshop on "Research Methodology" 18-22 June 2013	22 June 2013
46	Government College of Engineering, Aurangabad	one week workshop on "Soft Computing Tools & its Applications in Engineering" 3-7 June 2013	6 th June 2013
47	Sinhgad Institute of Technology, Lonavala	Two days workshop on "Matlab for Mechanical Engineers" 27 th – 28 th September, 2012.	27 Sept. 2012
48	SVNIT, Surat,	one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 14-18 May. 2012	14-16 May 2012
49	Gokhale Education Society's College of Engineering, Nasik,	wo days state level seminar on "Advanced Engineering Optimization" 27 th – 28 th February, 2012	27 Feb. 2012
50	Guru Govind Singh Polytechnic, Nasik	MSBTE sponsored STTP on "CAD/CAM & Automation" 12-16 Dec. 2011	12 Dec. 2011
51	Government college of Engineering, Aurangabad	ISTE sponsored STTP on "Soft Computing Tools & its Applications in Engineering" 20 th June to 1 st July 2011	23 July 2011
52	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, Sakhrle	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: 17

S.N.	Name of Event	Date	Sponsored by
1	One-Week Faculty Development Program on Artificial Intelligence for Robotics	1 – 5 June, 2026	K. K. Wagh IEER, Nashik
2	International Conference on International Conference on Engineering Innovations For Sustainable Future (ICEISF-2025)	6-7 Jan. 2025	K. K. Wagh IEER, Nashik
3	Training Program for SMT Leaders of Mahindra and Mahindra Ltd., Nashik	13 Dec. 2023 – 11 July 2024	Mahindra and Mahindra Ltd., Nashik
4	Training Program for SMT Leaders of Mahindra and Mahindra Ltd., Nashik	Jan-Aug. 2022	Mahindra and Mahindra Ltd., Nashik
5	Training Program for SMT Leaders of Mahindra and Mahindra Ltd., Nashik	July-Oct. 2021	Mahindra and Mahindra Ltd., Nashik
6	Training Program for SMT Leaders of Mahindra and Mahindra Ltd., Igatpuri	22 April – 2 Dec. 2022	Mahindra and Mahindra Ltd., Igatpuri
7	International Conference on Manufacturing Excellence (ICMAX-2021))	17-18 Sept. 2021	K. K. Wagh IEER, Nashik
8	State Level Workshop on "Swarm Intelligence: Research Applications"	31 Jan-01 Feb. 2020	K. K. Wagh IEER, Nashik
9	International Conference on Manufacturing Excellence (ICMAX-2019)	15-16 Feb. 2019	Savitribai Phule Pune University, Pune
10	Two days interdisciplinary workshop on "Artificial Intelligence: Research and Applications"	6-7 January, 2018	K. K. Wagh IEER, Nashik
11	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
12	"International Conference on Manufacturing Excellence" (ICMAX-2017)	3-4 March 2017	Savitribai Phule Pune University, Pune

13	Three days' workshop on "Soft Computing: Applications in Engineering"	8-10 December, 2016	K. K. Wagh IEER, Nashik
14	One week workshop on "Optimization aspects of Robotics and Computer Integrated Manufacturing"	16-20 Jan 2016	K. K. Wagh IEER, Nashik
15	Two days' workshop on "Advanced Statistical methods for Tool & Die Design"	13-14 September, 2014	K. K. Wagh IEER, Nashik
16	Two days' workshop on "Research Methodology: Recent trends and applications"	11-12 April 2014	K. K. Wagh IEER, Nashik
	Two days' state level seminar on "Advanced Engineering Optimization (ADOPT)"	1-2 February, 2010	Savitribai Phule Pune University, Pune

Patents: 03

S N	Title of patent	Inventors	Application ID	Status	Link
1	Damage control of steam turbine shaft through implementation of image processing technology for vibration analysis Application No.201821014403 A	P. J. Pawar, A. S. Deshmukh, N. S. Wakchaure	TEMP/E-1/14624/2018-MUM The Patent Office Journal No. 19/2018 Dated 11/05/2018	Published	http://www.ipindia.nic.in/writereaddata/Portal/IPOJournal/1_2611/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/Part-1.pdf pp. 17571
3	Magnetic abrasive finishing setup for finishing of complex profile on cylindrical part 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/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

Other recognition/ Awards:

1. Session chair for International Conference on Advanced Engineering Optimization through Intelligent Techniques (AEOTIT-2023) held on 28-30 Nov. 2024 at SVNIT Surat
2. Session chair for International Conference on Advanced Engineering Optimization through Intelligent Techniques (AEOTIT-2023) held on 28-30 Sept. 2023 at SVNIT Surat
3. Received "Best Teachers Award" from Panchavati Sarvajani Vachanalaya, Nashik on 5th September 2022.
4. Session chair for International Conference on Advanced Engineering Optimization through Intelligent Techniques (AEOTIT-2023) held on 28-30 Jan. 2022 at SVNIT Surat

Workshops/Seminars attended: 12

Sr. No.	Title of Workshop/seminar/STTP	Organizer	Date
	FDP on Idea Lab organized by AICTE Training and Learning (ATAL) Academy	COEP, Pune	22-26 September 2021
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	18 th 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	29 th Aug.- 3 rd Sept. 2005
2.	Crompton Greaves Limited	26 th Dec.2000 – 8 th 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:

- Programming languages known: C, Auto-Lisp
- Software handled: Auto-cad, Pro-E, MATLAB, and Top-solid, ANSYS, RoboAalyser


Dr. P. J. Pawar