

BIO-DATA

Name: Dr. Pawar Padmakar Jagannath.

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Contact No: +91 8983050973



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 (6 th Pay Commission) | 1/6/2013 to till date | 1/6/2013 KKWES/Engg/Uni. Selection/3818/2013 Dtd: 31 st May, 2013 | 1/6/2013 CCO/4346 Dated: 11/12/2013 |
| K. K. Wagh I. E. E. & R, Nasik | Assistant Professor in Production Engineering (5 th Pay Commission) | 1/8/2007 to 31/7/2010 | 1/8/2007 KKWES/Engg/078/8/2007, Dtd: 26 th July, 2007 | 1/8/2007 CCO/App/81 Dated: 9/10/2007 |
| K. K. Wagh I. E. E. & R, Nasik | Senior Lecturer in Production Engineering (5 th Pay Commission) | 1/7/2005 to 31/7/2007 | 1/7/2005 KKWES/CO/899-6/2006, Dtd: 6 th Nov. 2006 | ----- |
| K. K. Wagh I. E. E. & R, Nasik | Lecturer in Production Engineering (5 th Pay Commission) | 14/9/1996 to 30/6/2005 | 14/9/1996 KKWCOE/1256/97 Dtd: 28/7/97 | 1/8/1997 CCO/1626 Dated: 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 |
| 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 |

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=fWGI4AAAAJ&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: 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) | 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) | 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) | 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) | 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) | 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) | 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) | 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) | 0268-3768 | https://link.springer.com/article/10.1007/s00170-012-4524-2 |
| 10 | Process parameter optimization based on | International Journal of | Vol. 6 (3), pp.379-390 | Growing Science, | 10.5267/j.ijiec.20 | 2.455 (SJR: 0.774) | 1923-2926 | http://growing-science.com/beta/ijiec/1 |

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|----|--|---|------------------------------------|-------------------------|-------------------------------|--------------------|-----------|--|
| | principal components analysis during machining of hardened steel | Industrial Engineering Computations | (2015) | Canada | 15.2.004 | 0.787) | | 941-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) | 1923-2926 | http://growing-science.com/beta/ijiec/2015-04-003-2455 |
| 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) | 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) | 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) | 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) | 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) | 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 | 10.1007/s40430-023-04192-z | 2.361 (SJR): 0.445 | 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): 08

| 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 (SJR: 0.474) | 2217-2661 | http://ijiemjournal.org/images/journal/volume7/ijiem_vol7_no1_2.pdf |
| 19 | Optimal Sequence Of Hole-Making Operations Using Particle Swarm Optimization And Shuffled Frog Leaping Algorithm | 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 |
| 20 | 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 (SJR: 0.381) | 2080-8208 | http://mper.org/images/archiwum/2018/nr3/8-dalavi.pdf |
| 21 | 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 (SJR: 0.193) | 1330-1365 | https://hrcak.srce.hr/234625 |
| 22 | 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 (SJR: 0.21) | 2349-2473 | http://journaleet.org/index.php/jeet/article/view/150081 |
| 23 | 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 (SJR: 0.169) | 1330-9587 | https://er.riteh.hr/index.php/ER/article/view/1511 |
| 24 | 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: 0.371) | 2509-4238 | https://link.springer.com/article/10.1007/s41660-022-00222-w |
| 25 | 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) | 2008-4889 | http://ijiepr.iust.ac.ir/article-1-1297-en.pdf |

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/article.php?artid=54137 |
| 25 | Assembly Line Balancing Using Real Coded Genetic Algorithm | International Journal of Scientific Research in Computer Science and | 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 |

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|----|--|---|------------------------------------|--------------------------------------|--------------------------------|----------------|-----------|---|
| | | Engineering | | | | | | |
| 26 | 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/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 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/inarticle.php?artid=86982 |
| 28 | 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 |
| 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.jp.m.2017.7.002 | Web of Science | 2371-8366 | http://www.growing-science.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.science-direct.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.science-direct.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.science-direct.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 | | 2169-8767 | http://www.ieomsociety.org/ieom2020/papers/579.pdf |

Book Chapters (Scopus indexed): 05

| S. N | Title of Chapter | Name of Book | Vol., Issue, Pages, Year | Publisher | DOI | ISBN/ISSN | Link |
|------|---|--|-------------------------------|-----------|------------------------------|-------------------|---|
| 1 | Trajectory Optimization of an Industrial Robot Using Teaching Learning Based Optimization, PP. 677-686 | Book: Advanced Engineering Optimization Through Intelligent Techniques, Series: Lecture Notes in Mechanical Engineering | PP. 677-686 | 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 |
| '2 | 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 |
| 3 | 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). |
| 4 | 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 |
| 5 | 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 (Peer reviewed): 05

| S. N. | Title of chapter | Name of the book | Name of Publisher | Link |
|-------|---------------------------------|-----------------------------|-------------------|---|
| 1 | Multi-objective optimization of | 'Artificial Intelligence in | Nova Science | https://novapublishers.com/shop/a |

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|---|--|--|---|--|
| | multi-pass milling process parameters using artificial bee colony algorithm | Manufacturing Research' Editor: Prof. J. Paulo Davim (2010), pp. 31-50. ISBN: 978-1-62618-557-9 | publishers, Inc., New York, USA. | rtificial-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) | <a (chapter="" 10.1201="" 6)<="" 9781003081166-6="" a="" chapters="" e="" href="http://www.himpub.com/BookDetail.aspx?BookId=2275&NB=&Book_TitleM=Recent%20Trends%20in%20Computer%20Science%20&%20Applications%20and%20Computat... (Chapter 12)</td> </tr> <tr> <td>4</td> <td>Improving the performance of machining processes using Opposition based learning civilized swarm optimization</td> <td>Nature-Inspired Optimization in Advanced Manufacturing Processes and Systems (Dec. 2020) ISBN: 9780367532604 pp. 81-101</td> <td>CRC Press, US</td> <td> |
| 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 |

Publications in Conference Proceedings (60)

| 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 | S. V. N. I. T. Surat | 15-17, Dec. 2008 | Optimization of process parameters of grinding process using particle swarm optimization |

| | Engineering | | | |
|----|--|--|------------------------|---|
| 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 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 |

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|----|--|---|-------------------|--|
| 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 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 | 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 |
| 39 | | | | Inverse Kinematics Problems in Industrial Robotics: A Review |
| 40 | | | | Drilling Path Optimization of Holes of Printed Circuit Board using Modified Shuffled Frog Leaping Algorithm |
| 41 | | | | Experimental Investigation and Optimization of Control Parameters of Cooling System for an Industrial Robot Controller Cabinet |
| 42 | | | | Optimization of Operation Allocation Problem in Flexible Manufacturing System by Real Coded Genetic Algorithm |
| 43 | | | | Multi-Response Optimization of Burnishing of Friction Welded Al6082-T6 using Grey Relation Analysis |
| 44 | | | | Predicting Production Quantity by Integrating Monte Carlo Simulation and Regression Analysis |
| 45 | | | | Ranking Organization Method for Enrichment Evaluations (PROMETHEE) |
| 46 | | | | Analyzing Impact of E-Governance Practices and Standardized Processes on Customer Satisfaction of MHADA using TOPSIS with Reference to Pune and Nashik Board |
| 47 | | | | Modeling and Optimization of Wire Electric Discharge Machining |
| 48 | 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 |
| 49 | | | | Optimization Of Magnetic Abrasive Finishing Process Using Principal Component Analysis |
| 50 | | | | Multi-Response Optimization Of Burnishing Of Friction Welded Aa6082-T6 Using Principal Component Analysis |
| 51 | | | | Integrated Production Planning And Scheduling For Parallel Production Lines |
| 52 | International Conference on Recent Challenges in “Mechanical, Textile, Mining, | Jawaharlal Nehru University, New Delhi | 29th Sept. 2018 | Aerodynamics analysis of Aircraft wing |

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|----|--|--|------------------|--|
| | Aerospace, and Nano-Technology” | | | |
| 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 | Selection of Most Efficient Maintenance Strategy Using MADM Techniques |
| 54 | | | | Performance Evaluation of Fuzzy Modelling Approach for Advance Manufacturing Processes |
| 55 | | | | Material Flow Optimisation for Multistage, Multiproduct Parallel Lines by Real Coded Genetic Algorithm (RCGA) |
| 56 | | | | Multi-response Optimization of Burnishing of Friction Welded AA6082-T6 using Taguchi, Gray Relation Analysis and Principle Component Analysis |
| 57 | | | | Path optimization for redundant manipulator to Travelling Salesman Problem (TSP) |
| 58 | 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 |
| 59 | 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 |
| 60 | International Conference on “Advanced Engineering Optimization Through Intelligent Techniques” | SVNIT Surat | 28-30 Jan. 2022 | Trajectory optimization of an Industrial Robot using TLBO |
| 61 | International Conference on “Advanced Engineering Optimization Through Intelligent Techniques” (Online) | SVNIT Surat | 28-30 Sept. 2023 | Particle Swarm Optimization based Simulated Annealing Approach for Robot Inverse Kinematic Solutions. (Paper presented) |
| 62 | International Conference on “Advanced Engineering Optimization Through Intelligent Techniques” (Online) | SVNIT Surat | 28-30 Sept. 2023 | Material Flow Optimization of a Machine Loading Problem (Paper presented) by KC Bhosale |

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 IPE 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 IPE 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.com/Minimization-Wire-Breakage-EN-19-Material/dp/6200656266 |

Ph. D. Thesis guided: 04 (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 | 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 |

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 Anaysis | 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 | 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 |
| 2 | SVNIT, Surat | One week STTP on "Advanced Engineering Optimization through Intelligent Techniques" (26-30 Sept. 2022) | 26 th Sept. & 28 th Sept.. 2022 |
| 3 | SVNIT, Surat | One week STTP on "Advanced Engineering Optimization through Intelligent Techniques" (18-22 Oct. 2021) | 18 Oct. 2021 & 20 Oct. 2021 |
| 4 | 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. |
| 5 | SVNIT, Surat | One week STTP on "Advanced Engineering Optimization through Intelligent Techniques" (1-5 Sept 2020) | 1-2 Sept. 2020 |
| 6 | K. K. Wagh IEER | State Level Workshop on "Swarm Intelligence: Research Applications" 31 Jan-1 Feb. 2020 | 31 Jan. 2020 |
| 7 | MIT World Peace University, Pune | One Week FDP on "Research Methodologies and Advanced optimization Techniques (16-20 Dec. 2019) | 17 Dec. 2019 |
| 8 | SVNIT, Surat | One week TEQUIP Sponsored STTP on "Advanced Engineering Optimization through Intelligent Techniques" (13-17 May 2019) | 13-14 May 2019 |
| 9 | 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 |
| 10 | Amrutvahini College of Engineering, Sangamner | SPPU sponsored National Workshop on "Robotics and Manufacturing Automation" 22-23 Feb.2019. | 22 th Feb. 2019 |
| 11 | Loknete Gopinathji Munde IEER, Nashik | SPPU sponsored State Level Workshop on "Research Methodology" organized by during 20-21 Dec. 2018. | 20 th Dec 2018 |
| 12 | 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 |
| 13 | LGN Sapkal COE, Nashik | SPPU sponsored National level workshop on "Multi-objective Design optimization" 5-6 January 2018. | 5 th Jan. 2018 |
| 14 | AVCOE Sangamner | 2 week FDP on "Competitive manufacturing Technologies" 11-22 December 2017. | 12 th Dec. 2017 |
| 15 | K. K. Wagh IEER Nashik | SPPU sponsored one week FDP on "Fuzzy Logic and Its Applications" 11-15 December 2017. | 14 th Dec. 2017 |
| 16 | Symbiosis Institute of Operations Management, Nashik | National Conference on "Competitive Manufacturing strategies by Leveraging Technology" 10 th Nov. 2017. | 10 th Nov. 2017. |
| 17 | SVNIT, Surat | one week STTP on "Advanced Engineering Optimization through Intelligent Techniques" 27-31 March 2017. | 27-28 March 2017 |
| 18 | Government College of Engineering, Aurangabad | one week TEQUIP - STTP on "Soft Computing Techniques in Engineering Applications", (SOCTEA-2017) 15-19 February, 2017 | 17 Feb. 2017 |
| 19 | SVNIT, Surat | One week TEQUIP Sponsored STTP on "Advanced Engineering Optimization through Intelligent Techniques" 6-10 February 2017. | 6-7 Feb.2017 |
| 20 | 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 |
| 21 | Government Polytechnic Nashik | DTE sponsored One week STTP on 'Excellence in Manufacturing Engineering' 2-6 Jan 2017 | 4 Jan. 2017 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | SND College of engineering and Research Center, Yeola | SPPU sponsored National Conference on "Research Methodology" 18-19 Feb. 2016. | 18 Feb. 2019 |
| 27 | NIT Agaratala | Three Days Workshop on "Recent Advancement in Soft Computing Techniques" 29 - 31 Jan 2016. | 30-31 Jan 2016 |
| 28 | 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 |
| 29 | JNTU, Hyderabad | Two Days Workshop on "Advanced Cognitive and other optimization Techniques" 8 - 9 Jan 2016. | 8 - 9 Jan 2016 |
| 30 | SVNIT, Surat, | one week STTP on "Advanced Engineering Optimization through Intelligent Technique. 22 st June- 26 th June 2015. | 22-24 June 2015 |

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| 31 | SRES College of Engineering | one week Workshop on "Design of Experiments and Optimization Techniques" 1-5 June 2015 | 5 th June 2015 |
| 32 | 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 |
| 33 | 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 |
| 34 | Sandip Institute of Technology and Research Centre, | One Week Workshop on "Applications of Engineering Mathematics" 20-24, April 2015 | 21 th April 2015 |
| 35 | 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 |
| 36 | K. C. College of Engineering and Management Studies and Research, Thane | one week STTP on "Research methodology and Technology Management" 5 th Jan.- 9 th Jan 2015. | 6 th Jan. 2015 |
| 37 | SVNIT, Surat, | one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 1-5 December 2014 | 1-3 Dec. 2014 |
| 38 | SVNIT, Surat, | one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 22-26 Sept. 2014 | 22-24 Sept. 2014 |
| 39 | Indian Space Research Organization (ISRO) Ahmadabad | Workshop on "Advanced Engineering Optimization through Intelligent Techniques" 1-3 May 2014 | 1 st May 2014 |
| 40 | K. K. Wagh IEER, Nashik | Two days workshop on "Research Methodology: Recent trends and Applications" 11-12 April 2014 | 11-12 April 2014 |
| 41 | SVNIT, Surat, | one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 27-31 Jan. 2014 | 27-29 Jan. 2014 |
| 42 | SVNIT, Surat, | one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 23-27 Sept. 2013 | 23-25 Sept. 2013 |
| 43 | Matoshri College of Engineering and Research Center, Nasik | one week workshop on "Research Methodology" 18-22 June 2013 | 22 June 2013 |
| 44 | Government College of Engineering, Aurangabad | one week workshop on "Soft Computing Tools & its Applications in Engineering" 3-7 June 2013 | 6 th June 2013 |
| 45 | Sinhgad Institute of Technology, Lonavala | Two days workshop on "Matlab for Mechanical Engineers" 27 th – 28 th September, 2012. | 27 Sept. 2012 |
| 46 | SVNIT, Surat, | one week STTP on "Advanced Engineering Optimization through Intelligent Technique", 14-18 May. 2012 | 14-16 May 2012 |
| 47 | 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 |
| 48 | Guru Govind Singh Polytechnic, Nasik | MSBTE sponsored STTP on "CAD/CAM & Automation" 12-16 Dec. 2011 | 12 Dec. 2011 |
| 49 | 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 |
| 50 | 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- | 17-18 Sept. 2021 | K. K. Wagh IEER, Nashik |

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| | 2021) | | |
| 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

| 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_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 | 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_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 |

Other recognition/ Awards:

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

3. 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

Dr. P. J. Pawar