

STAFF PROFILE



Dr. B P Patil

Principal

Administration

principal@aitpune.edu.in

Date of Joining
02/05/2012

Nature of Appointment
Regular

Educational Details

Qualification	Degree	University	Grade	Year
SSC	SSC	Pune	80.57	1984
Diploma	DEE	BTE, Bombay	65.82	1987
Graduation	BE	Amravati	68.59	1990
Diploma	DBM	NMU, Jalgaon	71.11	1993
PG	MMS	NMU, Jalgaon	68.00	1994
PG	ME	Allahabad	75.45	1996
Doctoral	PhD	Amritsar	-	2000

Areas of Interest

Wireless Communication, Sensor Network, Non-conventional Energy, Biomedical Signal Processing

Experience Details

Total : 23.70 years	Teaching : 19.20 years	Research : 0.00 years	Industry : 4.50 years
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Type	Duration/ Period	Designation/ Organisation Name	Brief Job Profile
Educational	1.00 Years 1990-91 (Session)	Contributory Lecturer Nutan Maratha College, Jalgaon	Teaching to BCS students
Educational	1.00 Years 1997-98	Lecturer SSVPs College of Engineering, Dhule	Teaching and Conducting Practical
Educational	6.00 Years 1991-97	Lecturer College of Engineering and technology, Bambhori, Jalgaon	Teaching and Conducting Practical
Educational	1.90 Years 2003-2004	Asoc. Professor Vignan Institute of Tech & Science, Deshmukhi (V), Nalgonda (Dist), (A.P.)	Teaching, Conducting Practical and administration
Educational	0.30 Years 2005-2005	Professor Vignan Institute of Tech & Science, Deshmukhi (V), Nalgonda (Dist), (A.P.)	Teaching, Conducting Practical and administration
Educational	5.00 Years 2005-2011	Professor and Head Maharashtra Academy of Engg., Alandi, Pune	Teaching, Conducting Practical and administration
Educational	1.00 Years 2011-12	Principal Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune	Administration

Educational	3.00 Years 2012-2015	Professor and Head Army Institute of Technology, Pune	Teaching, Conducting Practical and administration
Industrial	4.50 Years 1998-2003	Junior Engr. (Gen) Chandrapur Super Thermal Powerstation, Chandrapur (MSEB)	Testing, Instrumentation and Control of equipment's and its maintenance

Journal Publications

1. Sarika B. Patil, B P Patil, (2020). [Automated macula proximity diagnosis for early finding of diabetic macular edema](#). *Research on Biomedical Engineering*. 36(3), 249-269. ISBN/ ISSN No : Online 2446-4740; Print 2446-4732. URL : https://link.springer.com/article/10.1007/s42600-020-00065-9?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst.
2. Satyashil D. Nagarale, B P Patil, (2020). [A Review on AI based Predictive Battery Management System for E-Mobility](#). *Test Engineering and Management*. 83(-), 15053 – 15064. ISBN/ ISSN No : 0193 - 4120. URL : <http://testmagazine.biz/index.php/testmagazine/article/view/9806>.
3. Sarika Patil, B P Patil, (2020). [Detection of Small Red Lesions in Retinal Fundus Images Using AC - CLAHE , Gabor Filter and One Class SVM](#). *Test Engineering and Management*. 83(-), 2177 - 21 87. ISBN/ ISSN No : 0193 - 4120. URL : <http://www.testmagazine.biz/index.php/testmagazine/article/view/3956/3436>.
4. B P Patil, Rajashree Suryawanshi (R. A. Patil), S. Maflin Shaby, (2019). [Performance Evaluation of Large MIMO](#). *Wireless Personal Communications*. 104(2), 821–836. ISBN/ ISSN No : 0929-6212 . URL : <https://link.springer.com/article/10.1007%2Fs11277-018-6053-2>.
5. Rajashree A Patil, B P Patil, P. Kavipriya, (2019). [Performance Analysis of 8 X 8 MU-MIMO in Uplink of LTE-](#). *International Journal on Emerging Technologies*. 10(2), 44-49. ISBN/ ISSN No : ISSN (Print) : 0975-8364, (Online): 2249- 3255 . URL : <https://www.researchtrend.net/ijet/pdf/Performance%20Analysis%20of%208%20X%208%20MU-MIMO%20in%20Uplink%20of%20LTE%20A%20RAJASHREE%20A%20PATIL.pdf>.
6. Deepali Newaskar, B. P. Patil, (2019). [Wireless Power Transfer through Inductive Coupling for AIMDs](#). *International Journal of Innovative Technology and Exploring Engineering*. 8(11), 138-141. ISBN/ ISSN No : 2278-3075. URL : <https://www.ijitee.org/download/volume-8-issue-11/>.
7. Rajashree A. Patil, P. Kavipriya, B P Patil, (2019). [GWO Based Optimal Channel Estimation Technique for Large Scale MIMO in LTE Network](#). *International Journal of Innovative Technology and Exploring Engineering* . 8(12), 5306-5314. ISBN/ ISSN No : 2278-3075 (Online). URL : <https://www.ijitee.org/wp-content/uploads/papers/v8i12/L37331081219.pdf>.
8. Surekha KS, B P Patil, (2019). [HYBRID TECHNIQUE FOR ECG SIGNAL COMPRESSION USING PARALLEL AND CASCADE METHOD](#). *Biomedical Engineering: Applications, Basis and Communications*. 31(1), 1950022-1-1950022-8. ISBN/ ISSN No : 1016-2372. URL : <https://www.worldscientific.com/doi/10.4015/S1016237219500224>.
9. Surekha KS, B P Patil, (2019). [Power Line Interference Removal from Electrocardiogram Signal Using Multi-Order Adaptive LMS Filtering](#). *International Journal of Biomedical Engineering and Technology*. - (-), In press (ESCI and Scopus indexed). ISBN/ ISSN No : ISSN online: 1752-6426 ISSN print: 1752-6418. URL : <https://www.inderscience.com/jhome.php?jcode=ijbet>.
10. Anuja Phadke, Bhagwat Patil, Madhushree Bute, Suresh Gosavi, Shafique Ahmad Ansari, Aditya Abhyankar, (2019). [A Hybrid Approach Combining Statistical Image Information and Image Informatics for 3D Reconstruction](#). *Advanced Science, Engineering and Medicine*. 11(9), 888-899. ISBN/ ISSN No : 2164-6627. URL : <http://www.aspbs.com/>.
11. Ms. Surekha K S, B P Patil, (2018). ECG Signal Compression using Parallel and Cascade method for QRS complex. *Indian journal of Science & Technology*. 11(1), 1-6. ISBN/ ISSN No : 0974-6846.
12. Rahul Desai, B P Patil, (2017). [Maximizing Throughput using Adaptive Routing Based on Reinforcement Learning](#). *Int. J. Advanced Networking and Applications*. 9(2), 3391-3395. ISBN/ ISSN No : 0975-0290. URL : <https://www.ijana.in/papers/V9I2-6.pdf>.
13. Rajashree P Suryawanshi (Rajashree A. Patil), S. Maflin Shaby, B P Patil, (2017). [Uncoded 8 X 8 MIMO Systems with ZF and V-BLAST with ZF Detection](#). *International Journal of Electronics, Electrical and Computational System IJEECS*. 6(9), 385-390. ISBN/ ISSN No : 2348-117X. URL : <http://www.academicsscience.co.in/ijeeecs.php>.
14. Ms. Surekha K S, B P Patil, (2017). Hybrid Compression Technique Using Linear Predictive Coding for Electrocardiogram Signals. *International Journal of Engineering Technology Science and Research(UGC approved)*. 4(6), 497-500. ISBN/ ISSN No : ISSN 2394 – 3386. URL : www.IJETS.com.
15. Rahul Desai, B P Patil, (2017). [Dual Reinforcement Q Routing for Ad Hoc Networks](#). *Indonesian Journal of Electrical Engineering and Computer Science (IJEECS)*. 7(3), 786-794. ISBN/ ISSN No : 2502-4760. URL : <http://www.iaescore.com/journals/index.php/IJEECS/issue/view/424>.
16. Rahul Desai, B P Patil, (2017). Adaptive routing based on predictive reinforcement learning. *International Journal of Computers and Applications* . 40(2), 73-81. ISBN/ ISSN No : 1206212X.

17. Rahul Desai, B P Patil, (2017). Prioritized Sweeping Reinforcement Learning Based Routing for MANETs. *Indonesian Journal of Electrical Engineering and Computer Science*. 5(2), 383-390. ISBN/ ISSN No : 10.11591/ijeecs.v5.i2.pp383-390.
18. Rahul Desai, B P Patil, (2017). [Routing Protocols for Mobile Ad Hoc Network: A Survey and Analysis](#). *Indonesian Journal of Electrical Engineering and Computer Science*. 7(3), 795-801. ISBN/ ISSN No : 2502-4760. URL : <http://www.iaescore.com/journals/index.php/IJEECS/article/view/8001/7416>.
19. B P Patil, Rahul Desai, (2017). [Learning Based Route Management in Mobile Ad Hoc Networks](#). *Indonesian Journal of Electrical Engineering and Computer Science*. 7(3), 718-723. ISBN/ ISSN No : 2502-4760. URL : <http://www.iaescore.com/journals/index.php/IJEECS/article/view/8454/7342>.
20. Ms. Surekha K S, B P Patil, (2016). [Transform Based Techniques for ECG Signal Compression](#). *International Journal of Applied Engineering Research(SCOPUS Indexed)*. 11(9), 6139-6143. ISBN/ ISSN No : 1087-1090. URL : <http://www.ripublication.com>.
21. Ms. Surekha K S, B P Patil, (2016). ECG signal compression using the high frequency components of wavelet transform. *International Journal of Advanced Computer Science and applications(ESCI Indexed journal)*. 7(3), 311-315. ISBN/ ISSN No : 2156-5570. URL : www.thesai.org.
22. Manas Ray, Mahesh Chandra, B P Patil, (2016). [Scalable Hybrid Speech Codec for Voice over Internet Protocol Applications](#). *International Journal of Advanced Computer Science and Applications*. 7(4), 190-197. ISBN/ ISSN No : E-ISSN: 2156-5570, P-ISSN: 2158-107X. URL : http://thesai.org/Downloads/Volume7No4/Paper_24-Scalable_Hybrid_Speech_Codec_for_Voice_Over_Internet_Protocol_Applications.pdf.
23. Rahul Desai, B P Patil, (2016). Analysis of Reinforcement Based Adaptive Routing in MANET. *Indonesian Journal of Electrical Engineering and Computer Science*. 2(3), 684-694. ISBN/ ISSN No : 10.11591/ijeecs.v2.i3.pp648-694.
24. B P Patil, Rahul Desai, (2016). Optimized Reinforcement Learning Based Adaptive Network Routing for MANETs. *Global Journal of Pure and Applied Mathematics*. 12(02), 1432. ISBN/ ISSN No : 0973-1768.
25. Prabha S Kasliwal, V V Haibatpure, B P Patil, (2015). [Performance Evaluation of 8 bit Vedic Multiplier](#). *Wulfenia Journal*. 22(2), 308-316. ISBN/ ISSN No : 1561 – 882X. URL : <http://multidisciplinarywulfenia.org/index.html>.
26. P N Kota, A N Gaikwad, B P Patil, (2015). [A Non-Uniform DFT-Spread Constellation Reforming Method for PAPR Reduction of OFDM Signals](#). *CiiT International Journal of programmable devices and circuits and Systems*. 7(4), 103-107. ISBN/ ISSN No : Print: ISSN 0974 – 973X & Online: ISSN 0974 – 96. URL : <https://www.ciiiresearch.org/dl/index.php/pdcs/article/view/PDCS042015002>.
27. Manas Ray, Mahesh Chandra, B P Patil, (2015). [Speech Coding Techniques for VoIP Applications: A Technical Review](#). *World Applied Sciences Journal (WASJ)*. 33(5), 736-743. ISBN/ ISSN No : 1818-4952. URL : <https://pdfs.semanticscholar.org/4f68/02f1ca14b0a2b140e7b77aa293be6ecd3784.pdf>.
28. Mr. Rahul Desai, Dr. B P Patil, (2015). Adaptive Routing for an Ad hoc Network Based on Reinforcement Learning. *International Journal of Business Data Communications and Networking*. 11(2), 1-7. ISBN/ ISSN No : 070116-044600.
29. Rahul Desai, DR. B P Patil, (2014). Flexible and Scalable Routing Approach for Mobile Ad Hoc Networks Based on Reinforcement Learning. *International Research Journal of Engineering and Technology (IRJET)*. 4(6), 1839-1842. ISBN/ ISSN No : 2395 -0056, 2395-0072.
30. V N Patil, B P Patil, N G Shimpi, (2014). [Effect of Negative Ionization on Egg Incubation and Burn Patient](#). *Wulfenia Journal*. 21(4), 125-141. ISBN/ ISSN No : 1561 – 882X. URL : <http://multidisciplinarywulfenia.org/about/index.html>.
31. Pradnya M. Daflapurkar, B P Patil, (2013). [Performance Evaluation of WSN Parameters Using Reinforcement Learning: A Survey](#). *International Journal of Technology and Engineering Science (IJTES)*. 1(9), 1360-1365. ISBN/ ISSN No : 2320 – 8007. URL : https://mafiadoc.com/performance-evaluation-of-wsn-parameters-using-ijtes_5bb504a5097c47f2428b478e.html.
32. V N Patil, B P Patil, N D Shimpi, Piyusha S Bembalkar, (2013). Automatic negative Air Ion Counter. *IETE Journal of innovation and Research*. 1(1), 10-12. ISBN/ ISSN No : -.
33. Rahul Desai, B P Patil, (2013). [MANET with Q Routing Protocol](#). *Asian Journal of Information Technology*. 12(1), 20-26. ISBN/ ISSN No : 1682-3915. URL : <https://www.medwelljournals.com/abstract/?doi=ajit.2013.20.26>.
34. Bhagyashri A. Warhade, B P Patil, Prabha Kasliwal, (2012). [Effect Of Carrier Frequency Offset On SER of OFDM System](#). *Journal of Telecommunications*. 2(1), 23-26. ISBN/ ISSN No : 2042-8839. URL : <https://www.scribd.com/document/105696377/Effect-of-Carrier-Frequency-Offset-on-SER-of-OFDM-System>.
35. Manas Ray, Mahesh Chandra, B P Patil, (2012). [Evaluation of CDMA Microwave Links at Different Environments for VoIP Applications](#). *International Journal of Advanced Research in Computer and Communication Engineering (IJAREEIE)*. 1(8), 508-512. ISBN/ ISSN No : ISSN 2278-8875 (Online Version) ISSN : 2278 – 102. URL : https://ijarcce.com/wp-content/uploads/2012/03/5_Evaluation-of-CDMA.pdf.
36. B P Patil, V. B. Malode, (2012). [Performance of Linear Block Coded OFDM system in BER and PAPR under different channels](#). *International Journal of Applied Information Systems (IJ AIS)* . 3(4), 6-12. ISBN/ ISSN No : 2249-0868 . URL : <http://research.ijais.org/volume3/number4/ijais12-450503.pdf>.
37. DR. B P Patil, (2012). Survey of On Demand Routing Protocols for Mobile Ad Hoc network.. *International Journal of IT, Engineering and Applied Sciences Research* . 01(02), 15-25. ISBN/ ISSN No : 2319-4413.

38. B P Patil, Sonali A Bhagwatkar, Prabha Kasliwal, (2012). [Performance of OFDM system with modified SLM Technique under fading channel](#). *International Journal of Science and Technology*. 2(2), 33-38. ISBN/ ISSN No : 2250-141X. URL : http://www.ijst.co.in/papers/vol2issue2/ijst_120405.pdf.
39. B P Patil, Deepthi Kulkarni, M. D. Goudar, (2012). [Node failure Aware Tree-Clustered Routing Algorithm in WSN](#). *Journal of Telecommunication*. 13(2), 18-24. ISBN/ ISSN No : 2042-8839. URL : <https://www.scribd.com/document/105691868/Node-Failure-Aware-Tree-Clustered-Routing-Algorithm-In-WSN>.
40. B P Patil, M. D. Goudar, V Kumar, (2012). [Adaptive MPPT based approach for single-phase AC Photovoltaic modules under partial shading conditions](#). *Int. J. of Electronics Communication and Computer Engineering*. 3(3), 362-365. ISBN/ ISSN No : 2249-071X. URL : https://ijecce.com/administrator/components/com_jresearch/files/publications/IJECCE_492_Final.pdf.
41. B P Patil, Varsharani V. Haibatpure, Prabha Kasliwal, (2012). [Performance Evaluation of Proposed Vedic Multiplier in Microwind](#). *International Journal of Communication Engineering Applications-IJCEA*. 3 (3), 498-502. ISBN/ ISSN No : 2230-8520, 2230-8539. URL : https://www.researchgate.net/profile/B_P_Patil2/publication/272814375_Performance_Evaluation_of_8_bit_Vedic_Multiplier/links/5688925008aebccc4e156a4d/Performance-Evaluation-of-8-bit-Vedic-Multiplier.pdf.
42. B P Patil, V. N. Patil, N. G. Shimpi, Ashish Jha, (2012). [Proposed negative ion generation system](#). *International Journal of Applied Information Systems (IJ AIS)*. 3(8), 44-48. ISBN/ ISSN No : 2249-0868 . URL : <http://research.ijais.org/volume3/number8/ijais12-450604.pdf>.
43. M D Goudar, V Kumar, B P Patil, (2012). [Neuro-Fuzzy Controller Algorithm for obtaining Maximum Power Tracking Point of Photovoltaic System for Dynamic Environmental Conditions](#). *Int. J. of Electrical and Electronics Engineering Research (IJEEER)*. 2(3), 1-11. ISBN/ ISSN No : 2250-155X. URL : <http://www.tjprc.org/publishpapers/2-15-1346483997-1-EEE%20-%20IJEEER%20-%20NEURO-FUZZY%20%20-%20MD%20Goudar%20-%20Paid.pdf>.
44. B P Patil, Bhagyashri A. Warhade, Prabha Kasliwal, (2011). [Effect of Frequency offset & number of subcarrier on OFDM system](#). *International Journal of Wireless communication and Networking*. 3(2), 163-166. ISBN/ ISSN No : 0975-7163. URL : <http://serialsjournals.com/serialjournalmanager/pdf/1329476061.pdf>.
45. B P Patil, M. D. Goudar, V Kumar, (2011). Review of Topology for Maximum Power Point Tracking Based Photovoltaic Interface. *InJoREST-International Journal of Research in Engineering Sciences and Technology*. 2(1), 35-40. ISBN/ ISSN No : 2229-5135.
46. B P Patil, Prabha Kasliwal, Sonali A Bhagwatkar, (2011). [Performance of OFDM system modified SLM Technique with DQPSK](#). *Journal of Telecommunication*. 11(2), 23-26. ISBN/ ISSN No : 2042-8839. URL : https://www.researchgate.net/profile/B_P_Patil2/publication/272814264_Performance_of_OFDM_system_modified_SLM_Technique_with_DQPSK/links/559f754308ae97223ddc7377.pdf.
47. B P Patil, M. D. Goudar, V Kumar, (2011). [Hybrid Approach to maximum peak power tacking Algorithm](#). *International Journal of Electrical & Electronics Engineering Research and development (IJEEERD)*. 1 (1), 1-11. ISBN/ ISSN No : ISSN 2248-9282, 2248-9290. URL : <http://www.prjpublication.com/PrjAdmin/UploadFolder/01%20HybridApproach%20power-2.pdf>.
48. M D Goudar, B P Patil, V Kumar, (2011). Adaptive MPPT Based Photovoltaic Electronic Ballast for Lighting System. *Journal of Institution of Engineers (India), Technical Journal*. 35(-), 80-82. ISBN/ ISSN No : -.
49. Prabha Kasliwal, B P Patil, D K Gautam, (2011). [Performance Evaluation of Squaring Operation by Vedic Mathematics](#). *IETE Journal of Research*. 57(1), 39-41. ISBN/ ISSN No : 0377-2063. URL : <https://www.tandfonline.com/doi/abs/10.4103/0377-2063.78327?journalCode=tijr20>.
50. B P Patil, V. N. Patil, N. G. Shimpi, Manoj Waghdarika, (2010). Air Ion Counter. *International Journal of Computer Science & Knowledge Engineering*. 4(1), 27-31. ISBN/ ISSN No : 0973-6735.
51. B P Patil, V N Patil, N. G. Shimpi, Manoj Waghdarika, (2010). Ion Generation for Industry and life Science applications. *Micro and Nano Electronics, Circuits and Systems*. 2(1), 13-18. ISBN/ ISSN No : 0975-4768.
52. B P Patil, V. B. Malode, (2010). [PAPR Reduction Using Modified Selective Mapping Technique](#). *International Journal of Advanced Networking and Applications (IJANA)*. 2(2), 626-630. ISBN/ ISSN No : 0975-0290, 0975-02. URL : <http://www.ijana.in/papers/8.9.pdf>.
53. B P Patil, M. D. Goudar, V Kumar, (2010). [A Review Of Improved Maximum Peak Power Tracking Algorithms For Photovoltaic Systems](#). *International Journal of Electrical Engineering & Technology (IJEEET)*. 1(1), 72-94. ISBN/ ISSN No : 0976-6545, 0976-6553. URL : <http://www.iaeme.com/MasterAdmin/UploadFolder/A%20REVIEW%20OF%20IMPROVED%20MAXIMUM%20PEAK%20POWER%20TRACKING%20ALGORITHMS%20FOR%20PHOTOVOLTAIC%20SYSTEMS-2.pdf>.
54. B P Patil, S. S. Sonavane, V. Kumar, (2009). [Experimentation for Packet Loss on MSP430 and NRF24L01 Based Wireless Sensor Network](#). *International Journal of Advanced Networking and Applications (IJANA)*. 1(-), 25-29. ISBN/ ISSN No : 0975-0290, 0975-0282. URL : <http://www.ijana.in/papers/Paper-4.pdf>.
55. B P Patil, Quazi Mateenuddin, (2009). [Elimination of Electrode-Pop Artifacts from EEG Data using Independent Component Analysis](#). *International Journal of COMADEM*. 12(1), 37-42. ISBN/ ISSN No :

- 1363-7681. URL : <http://www.comadem.com/>.
56. B P Patil, SS Sonavane, V Kumar, (2009). [MSP430 and nRF24L01 based Wireless Sensor Network Design with Adaptive power control](#). *Journal of Computer Networks and Internet Research (CNIR)*. 8(2), 11-15. ISBN/ ISSN No : 1687-4846, 1687-4854. URL : <http://www.icgst.com/journals/paper.aspx?pid=P1140841393&subid=42>.
 57. B P Patil, V Kumar, Sonavane, (2008). [Design Factors, Requirements and Research issues for wireless sensor networks](#). *International Journal of Engineering Research and Industrial Applications*. 1(III), 79-93. ISBN/ ISSN No : 0974-1518. URL : http://www.ascent-journals.com/ijeria_Impact_factor.html.
 58. B P Patil, Sonavane SS, V Kumar, (2008). [Components Choice for Low Power Wireless Sensor Networks Node](#). *IJCITAE International Journal of Computer, Information Technology and Engineering*. 2 (1), 17-22. ISBN/ ISSN No : 1793-8198, 1793-8163 . URL : http://d1.amobbs.com/bbs_upload782111/files_34/ourdev_593849BCYAP7.pdf.
 59. Quazi Mateenuddin, B P Patil, (2008). [Elimination of Eye Blink and Eye Movement artifacts from EEG Data using ICA](#). *Institution of Engineers (India) Journal of Interdisciplinary Engg, India*. 89(-), 32-36. ISBN/ ISSN No : -. URL : https://www.researchgate.net/publication/272814268_Elimination_of_Eye_Blink_and_Eye_Movement_artifacts_from_EEG_Data_using_ICA.
 60. Quazi Mateenuddin, B P Patil, Aqueel Ahmed, (2008). [Improving The Accuracy of Brain Computer Interface By Eliminating Eye Blink Artifacts From EEG Data Using ICA](#). *Karpagam Journal Of Computer Science*. 3(1), 901-908. ISBN/ ISSN No : 0976-2926. URL : https://www.researchgate.net/profile/B_P_Patil2/publication/272814180_Improving_The_Accuracy_of_Brain_Computer_Interface_By_Eliminating_Eye_Blink_Artifacts_From_EEG_Data_Using_ICA/links/559f779408aef0643ca66362/Improving-The-Accuracy-of-Brain-Computer-Interface-By-Eliminating-Eye-Blink-Artifacts-From-EEG-Data-Using-ICA.pdf?origin=publication_list.
 61. B P Patil, J Singh, (2004). Adaptive DQPSK under Fading Statistics for Mobile Communication. *Journal of Institution of Engineers (India) – Electronic & Telecommunication Division, India*. 84(-), 47-51. ISBN/ ISSN No : -.
 62. B P Patil, J Singh, (2004). Power and Bandwidth requirement for M-ary PSK and DPSK system: A case study. *Journal of Institution of Engineers (India) – Electronic and Telecommunication Division, India*. 85 (-), 28-30. ISBN/ ISSN No : -.
 63. B P Patil, J Singh, (2001). DFA-DD in AWGN Channel for Adaptive DQPSK Signal. *Journal of Institution of Engineers (India) – Electronic and Telecommunication Division, India*. 81(-), 1-5. ISBN/ ISSN No : -.
 64. B P Patil, J Singh, (2001). Adaptive Differential Quadrature Phase Shift Keying (ADQPSK) under AWGN channel in Mobile communication system. *Journal of Institution of Engineers (India) – Electronic and Telecommunication Division, India*. 81(-), 46-47. ISBN/ ISSN No : -.
 65. B P Patil, J Singh, (2000). Quadrature Phase Keying in digital communication-transmission and reception of signals. *Journal of Punjab Academy of Sciences(JPAS), India*. 2(I), 275-278. ISBN/ ISSN No : -.
 66. B P Patil, J Singh, (1999). Analysis of DQPSK under frequency non selective slowly Nakagami fading channel. *IETE Journal of Research*. 45(5&6), 309-310. ISBN/ ISSN No : -.
 67. B P Patil, J Singh, (1999). Performance of Differential QPSK under frequency nonselective slowly Rayleigh fading channel . *Journal of Institution of Engineers (India) – Electronic & Telecommunication Division, India*. 80(-), 20-22. ISBN/ ISSN No : -.
 68. B P Patil, J Singh, (1998). Review of coherent and non-coherent digital communication system. *Journal Advance in Science and Technology, India*. 1(1), 20-49. ISBN/ ISSN No : -.
 69. B P Patil, J Singh, (1998). Bit error rate for mobile communication using DQPSK under AWGN Channel. *Journal Advance in Science & Technology, India*. 1(2), 69-71. ISBN/ ISSN No : -.

Conference Publications

1. Sarika Patil, B P Patil, (2020). Automatic Detection of Microanurysms in Retinal Fundus Images using Modified High Boost Filtering, Line Detectors and OC-SVM. *IEEE International Conference On Industry 4.0 Technology 2020 (I4Tech2020)*. (-), -. ISBN/ ISSN No : -.
2. Rajashree Suryawanshi (Rajashree A Patil), P. Kavipriya, B P Patil, (2018). Bit Error Rate Analysis of 16 X 16 MIMO-OFDM in Downlink transmission for LTE-A. *IEEE International Conference on Smart Systems and Inventive Technology (ICSSIT 2018)*. (-), -. ISBN/ ISSN No : -.
3. Pradnya M. Daflapurkar, Meera Gandhi, B P Patil, (2017). [Tree based distributed clustering routing scheme for energy efficiency in wireless sensor networks](#). *2017 IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI)*. (-), 2450 - 2456. ISBN/ ISSN No : -.
4. J B Jawale, V K Karra, B P Patil, Puneet Singh, Shailender Singh , Saloni Atre, (2016). [Solar Panel cleaning bot for enhancement of efficiency – An innovative approach](#). *IEEE 3rd International Conference on Devices, circuit and system (ICDCS'16)*. (-), 103-108. ISBN/ ISSN No : -.
5. J B Jawale, V K Karra, B P Patil, Puneet Singh, Shailender Singh , Saloni Atre, (2016). [Solar Panel cleaning bot for enhancement of efficiency – An innovative approach](#). *IEEE 3rd International Conference on Devices, circuit and system (ICDCS'16)*. (-), 103-108. ISBN/ ISSN No : -.
6. J B Jawale, V K Karra, B P Patil, Puneet Singh, Shailender Singh , Saloni Atre, (2016). [Solar Panel](#)

- [cleaning bot for enhancement of efficiency – An innovative approach](#). *IEEE 3rd International Conference on Devices, circuit and system (ICDCS'16)*. -(-), 103-108. ISBN/ ISSN No : -.
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 8. Sonali A. Bhagwatkar, B P Patil, Bhalchandra S. Satpute, (2016). [Performance of MMSE Channel Equalization for MIMO OFDM System](#). *IEEE 2016 International Conference on Computing Communication Control and automation (ICCUBEA)*. -(-), 1-3. ISBN/ ISSN No : -.
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Book Chapters

1. B P Patil, Surekha KS, (2014). [Compression of ECG signal technique](#). *Compression of ECG signal technique*. Springer International Publishing. ISBN/ ISSN No : 978-3-319-14653-9.

Books

1. V Kumar, B P Patil, S S Sonavane, (2010). [DESIGN OF A LOW COST WIRELESS SENSOR NETWORK: Low-cost, Low-power, Compact WSN](#). VDM Verlag Dr. Müller. ISBN/ ISSN No : ISBN-13: 978-3639265194, ISBN-10: 363926519X .

Patent

1. Jawale J B, Vijay Karra, B P Patil, Pritee Jawale, (2017). 201721020567. [Vedic mathematical calculator for floating point and complex number operations](#). 08/09/2017, India.
2. B P Patil, J B Jawale, Sweety, Shristhi Rana, Rashmi, Sumit Kumar, (2017). 201721018888. [Liquid Shaker](#). 16/06/2017, India.
3. J B Jawale, Pritee Jawale, B P Patil, (2016). 201621028216. [COST EFFECTIVE SOLUTION FOR MULTIMODAL BIOMETRIC SECURITY OF SOLAR PANEL CLEANING SYSTEM USING ANDROID](#). 02/09/2016, India.
4. JITENDRA BHASKAR JAWALE, PRITI J JAWALE, B P Patil, (2016). 201621025460 A. *Multi level biometric security system for solar panel cleaning bot using personal authentication*. 26/07/2016, India.
5. B P Patil, Jitendra Bhaskar Jawale, Saloni Atre, Shailender Singh Kushwaha, Purnima Gupta, Puneet Singh, Vijay Kumar Karra, (2015). 2662/DEL/2015. *Cost Effective Bot for Cleaning Solar Panel Array*. 28/08/2015, India.
6. B P Patil, Tushar Ramhari Jadhav, Aditya Shankar Abhyankar, Anuja Abhijit Phadke, Kulbir Singh, (2014). 3544/MUM/2014. *A system and method for homography based hybrid mixture for rehab engineering*. 11/11/2014, India.

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1. Jitendra B Jawale, (2019). 437/2019-CO/L. [Cost Effective Solution for Multimodal Biometric Security for Solar Panel Cleaning System using Android based Tablet/ smart phone](#). 11/01/2019, INDIA.

Seminar

1. XLR8 Powered By FICCI & IC2 (Attended), XLR8 Powered By FICCI & IC2, 2017, Pune
2. Session on Pune Smart City (Attended), Pune Smart City, 2015, CII, Pune
3. Recent Advances in Nanostructure Material & Applications (Attended), Recent Advances in Nanostructure Material & Applications, 2015, Rajashri Shau COE, Tathewadi, Pune

Workshop

1. Principal's Workshop (Attended), Discussion on CBCS, New education policy, Statutes, Stress Management and Biodiversity, 2020, Hotel Blue Mormon Jungle Resort, Bhimashankar
2. AICTE-UKIERI Technical Leadership Program - 2019 (Phase-2, 09-12 Dec 2019) (Attended), Leadership Skills, 2019, Jodhpur
3. Promotion of Autonomous Colleges Scheme (Attended), Promotion of Autonomous Colleges Scheme, 2019, SPPU, Pune
4. AICTE-UKIERI Technical Leadership Program - 2019 (Phase-1, 06-09 Aug 2019) (Attended), Leadership Skills, 2019, AICTE, New Delhi
5. Dean Summit (08-09 Apr 2019) (Attended), Dean Summit, 2019, Hyderabad
6. Implementation of Maharashtra General Univ. Act 2016 (Attended), Implementation of Maharashtra General Univ. Act 2016, 2017, SPPU, Pune
7. Workshop on Graduation Ceremony (Attended), Graduation Ceremony, 2016, SPPU, Pune
8. British High Commission Workshop - Innovation and Incubation: Commercialisation of Technologies (Attended), Innovation and Incubation: Commercialisation of Technologies, 2015, Bandra, Mumbai
9. AICTE Approval Process 2016-17 (Attended), Approval process for Extension, 2015, Mumbai
10. Training on prevention of sexual harassment (Attended), Prevention of sexual harassment, 2015, SPPU, Pune

Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
cost effective solution for solar panel cleaning Bot	BCUD	01/09/2016	01/09/2019	180000.00	Co-Investigator
Performance evaluation of indoor positioning system (IPS)	BCUD, Univ. of Pune	01/02/2015	31/03/2017	140000.00	Principal Investigator
Performance evaluation of Large MIMO	BCUD, Univ. of Pune	01/02/2013	31/03/2015	170000.00	Co-Investigator
Implementation of arithmetic unit using Vedic mathematics in FPGA	BCUD, Univ. of Pune	10/01/2009	09/01/2011	50000.00	Co-Investigator
Capacity improvement through adaptive power control in CDMA	BCUD, Univ. of Pune	10/01/2009	09/01/2011	100000.00	Co-Investigator
DSP based Grid Connected Photovoltaic System for Electrical Appliances	BCUD, Univ. of Pune	10/01/2008	09/01/2010	150000.00	Principal Investigator

Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
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Professional Memberships

Society	Membership No	Duration	
IETE	F-233938	30/04/2013	14/11/1934
Instrument Society of India	LM830	15/11/1997	14/11/1934
Institution of Engineers (India)	F-117764-4	28/03/2013	14/11/1934
ISTE	LM23303	15/03/1997	01/12/2034

Achievements/ Contribution

Year	Details
2018	"Education Leadership Award" by Dewang Mehta National Education Awards
2014	Best Result Award for Final Year Results Year 2013-14
2000	Received the "Sir Thomas Ward memorial Medal" from the Institution of Engg., Calcutta, for the best paper in E & T Journal div. for the year 1999-2000

No of PhD Students Guided : 3 **No of PG Students Guided** : 4
No of PhD Awarded Students : 8