

## STAFF PROFILE



### Dr. Rahul MeJOR Desai

Associate Professor

Information Technology

rahuldesai@aitpune.edu.in

### Educational Details

Qualification	Degree	University	Grade	Year
HSC	HSC	Pune University	70	1994
Graduation	BE	Pune University	72.28	1998
PG	M-Tech	Pune University	8.68	2007
SSC	SSC	Maharashtra	85%	1992
Doctrol	PhD	Savitribai Phule Pune University	NA	2017

### Experience Details

Type	Duration	Designation/ Organisation Name	Brief Job Profile
Industrial	1998-1999	Trainee Engineer SKF Bearing Ltd	Trainee Engineer
Educational	1999-2003	Instructor SSI Ltd, Pune	Training to Students and Professionals
Educational	2003-Till Date	Asst Professor AIT, Pune	Asst Professor

### Journal Publications

1. Mr. Rahul Desai, Dr. 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.
2. Mr. Rahul Desai, Dr. B P Patil, (2017). [Dual Reinforcement Q Routing for Ad Hoc Networks](http://www.iaescore.com/journals/index.php/IJEECS/issue/view/424). *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>.
3. DR. B P Patil, Rahul Desai, (2017). [Routing Protocols for Mobile Ad Hoc Network: A Survey and Analysis](http://www.iaescore.com/journals/index.php/IJEECS/article/view/8001/7416). *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>.
4. Mr. Rahul Desai, B P Patil, (2017). [Learning Based Route Management in Mobile Ad Hoc Networks](http://www.iaescore.com/journals/index.php/IJEECS/article/view/8454/7342). *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>.
5. Rahul Desai, Dr. 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.
6. Rahul Desai, (2017). Implementation of Secured Web based System using IPsec. *Nov 2017, Innovation – 2017, Regional Research Conference sponsored by University research cell SPPU*. (-), -. ISBN/ ISSN No : -.
7. Rahul Desai, (2017). Reinforcement Learning Based Spectrum Aware Routing in Cognitive Radio Network. *Nov 2017, Innovation – 2017, Regional Research Conference sponsored by University research cell SPPU*. (-), -. ISBN/ ISSN No : --.
8. Rahul Desai, B P Patil, (2017). [Maximizing Throughput using Adaptive Routing Based on Reinforcement Learning](https://www.ijana.in/papers/V9I2-6.pdf). *Int. J. Advanced Networking and Applications*. 9(2), 3391-3395. ISBN/ ISSN No : 0975-0290. URL : <https://www.ijana.in/papers/V9I2-6.pdf>.

9. DR. B P Patil, Mr. 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.
10. DR. B P Patil, Mr. Rahul Desai, (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.
11. Rahul Desai, (2015). Reversible Watermarking on the basis of Invariant Image Classification and Quality Preservation by Histogram Modulation. *ASET - International Journal of Innovative Science, Engineering & Technology*. 2(5), 50-55. ISBN/ ISSN No : 2348 – 7968.
12. 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.
13. Mr. Rahul Desai, (2014). A Generic Clustering Framework for the Implementation of High Availability Using Hazel cast. *International Journal of Electrical, Electronics and Computer Systems*. 2(2), 21-26. ISBN/ ISSN No : 2347-2820.
14. 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.
15. Mr. Rahul Desai, DR. 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>.
16. Geeta Patil, (2013). [Configuration of Real Time Linux on EP93XX Platform](#). *International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)*. 2(10), 2798-3802. ISBN/ ISSN No : 2278 - 1021. URL : [https://www.ijarcce.com/upload/2013/october/9-h-Rahul\\_Desai\\_-\\_Configuration\\_of\\_Real\\_Time\\_Linux\\_on\\_EP93XX\\_Platform.pdf](https://www.ijarcce.com/upload/2013/october/9-h-Rahul_Desai_-_Configuration_of_Real_Time_Linux_on_EP93XX_Platform.pdf).
17. Mr. Rahul Desai, (2012). Survey of On Demand Routing Protocols for Mobile Ad Hoc network.. *International Journal of IT, Engineering and Applied Sciences Research*. 1(2), 10-16. ISBN/ ISSN No : 2319-4413.

## Conference Publications

1. Dr. B P Patil, Mr. Rahul Desai, (2015). Cooperative Reinforcement Learning Approach for Routing in Ad Hoc Networks. *International Conference on Pervasive Computing ICPC 2015*. -(-), 1-5. ISBN/ ISSN No : 10.1109/PERVASIVE.2015.7086962.
2. Rahul Desai, B P Patil, (2015). Adaptive Online Network Routing Algorithm Based on Reinforcement Learning. *National Conference on Signal and data processing 2015*. -(-), 39-44. ISBN/ ISSN No : -.
3. Mr. Rahul Desai, (2014). High Availability Clustering Frame-work. *International Conference: International research conference on recent advances in engineering and technology*. 5(2), -. ISBN/ ISSN No : -.
4. Mr. Rahul Desai, (2014). Reinforcement Learning for Adaptive Network Routing. *International Conference on Computing for Sustainable Global Development*. -(-), 815-818. ISBN/ ISSN No : 0973–7529, 978-93-80544-10-6.
5. Mr. Rahul Desai, Dr. B P Patil, (2014). Reinforcement Learning Approach for Ad Hoc Networks. *International Conference on Recent Trends in Engineering and technology (ICRTET 2014)*. -(-), 82-89. ISBN/ ISSN No : 978-93-5107-220-1.
6. Dr. B P Patil, Mr. Rahul Desai, (2014). Performance Analysis of Ad Hoc Routing Protocols. *International Conference on Recent Trends in Engineering and technology (ICRTET 2014)*. -(-), 105-112. ISBN/ ISSN No : 978-93-5107-220-1.
7. Mr. Rahul Desai, Dr. B P Patil, (2014). Analysis of Routing Protocols for Ad Hoc Networks. *International Conference on Circuits, Systems, Communication and Information technology Applications CSCITA - 2014*. -(-), 111-115. ISBN/ ISSN No : 10.1109/CSCITA.2014.6839244.
8. Mr. Rahul Desai, (2013). Detection Of Buried Mines Using Ground Penetrating Radar Through Data Mining Techniques. *The ASAR-International Conference on Advanced Computer Science and Information Technology*. 1(2), 41-46. ISBN/ ISSN No : 2320-2084.
9. Mr. Rahul Desai, (2012). Survey of Proactive Routing Protocols for Mobile Ad Hoc network.. *International Conference on Recent Trends in Information Technology and Computer Science – 2012*. - (-), 10-18. ISBN/ ISSN No : 978-81-922978-2-8.

## Guest Lecture

1. Cloud Computing (Attended), By Dr. Umesh Bellur, IIT Bombay, 2020, AIT, Pune

## Workshop

1. Android for Ubiquitous Computing (Attended), Android for Ubiquitous Computing, 2018, Cummincs COE, Pune
2. Workshop on Soft Skill - 1 (Organized), Workshop on Soft Skill, 2018, Pune
3. Workshop on Java (Attended), Java Basics, 2017, AIT, Pune
4. Network Simulator NS2 Programming (Attended), NS2 Programming, 2016, AIT, Pune
5. Network Simulation using NS2 (Organized), Network Simulation using NS2, 2014, AIT, Pune
6. Network Simulation using NS2 & OMNet++ for wireless Network ( (Attended), Network Simulation using NS2 & OMNet++ for wireless Network, 2012, Sinhgad Academy of Engineering Kondhwa
7. NS2 (Attended), Network Simulation using NS2 & OMNet++ for Wired and Wireless Network, 2012, G.H.Raisoni College of Engineering and Management

## Research Grants

Title Of Project	Funding Agency	Duration		Sanctioned Amount	Role of Investigator
Investigation and implementation of secure Web based Embedded system using IPSec based on real Time Linux	BCUD, Pune	01/08/2016	30/07/2018	130000.00	Principal Investigator
Reinforcement learning based spectrum aware routing in cognitive radio network	BCUD, Pune	01/08/2016	30/07/2018	90000.00	Co-Investigator
A Zig-Bee Based Intelligent Self Adjusting Sensor and Energy Management system for home Automation	BCUD, Pune	07/05/2013	08/10/2015	105000.00	Co-Investigator

## Consultancy

Title Of Project	Funding Agency	Duration	Sanctioned Amount	Investigator Role
------------------	----------------	----------	-------------------	-------------------

## Professional Memberships

Society	Membership No	Duration	
IETE	LM158596	02/10/2003	10/04/2017

No of PhD Students Guided :

0

No of PG Students Guided :

0