Vaibhav V. Godbole

CONTACT
INFORMATION

F-902, Ashtavinayak Co-Hsg.Soc., D.N.Nagar,   *Voice:* (+91)9869331965
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Mumbai: 400053   *E-mail:* godbole@fragnel.edu.in
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CITIZENSHIP   India

DATE OF BIRTH   July 8, 1977

RESEARCH
INTERESTS

- Big data analysis using Hadoop.
- Evolutionary algorithms for Mobile Ad-hoc and Wireless Sensor Networks.
- Algorithms for Vehicular Ad-hoc Networks.
- Fuzzy algorithms for Mobile Ad-hoc Networks.

EDUCATION

M.E., Electronics & Telecommunication Engineering, Sardar Patel Institute of Technology, Andheri(W), Mumbai University, 2013, (**73.95 %**)

- Thesis Topic: **A novel Ant Colony Optimization (ACO) and Position based protocol for Mobile Ad-hoc Networks**
  - Published 2 research papers on the M.E. Project Thesis implementation.
- Special Topic Seminar on: **Performance comparison of routing protocols in Wireless Sensor Networks**
  - Published a research paper on **"FCA-An Approach On LEACH Protocol Of Wireless Sensor Networks Using Fuzzy Logic"** which was the implementation and extension of Special Topic Seminar.

B.E., Electrical Engineering(Part-Time), Sardar Patel College of Engineering, Andheri (W), Mumbai University, 2008, (**79.28 %**)

Diploma in Industrial Electronics, S.B.M. Polytechnic, Mumbai, 2000, (**83.04 %**)

Diploma in Mechanical Engineering, Government Polytechnic, Mumbai, 1995, (**62.81 %**)

AWARDS

- 3rd rank during first year of M.E.(Electronics & Telecommunication) course from Sardar Patel Institute of Technology, Andheri (W), Mumbai University, 2013.

- 1st rank during 1st, 2nd & 3rd year and 2nd rank during 4th year of B.E.(Electrical) course, Sardar Patel College of Engineering, Andheri (W), Mumbai University, 2008.

- 1st rank during **all years** of Diploma in Industrial Electronics course, S.B.M Polytechnic, Mumbai, 2000.

Assistant Professor **April 2008 to present**

- Fr. Conceicao Rodrigues College of Engineering, affiliated to University of Mumbai.

Subjects taught
- Information Theory and Coding
- Automata Theory
- Big Data Analytics (Practicals)
- Database Management Systems
- Convergence of Technologies in Networking
- Information Technology for Management
- Micro-Controllers & Embedded Systems
- Electromagnetic Engineering
- Electronic Devices and Circuits
- Enterprise Network Design

Laboratory Technician, *Dept. of Electronics Engineering, Fr. Conceicao Rodrigues College of Engineering* **June 2004 to March 2008**

- Responsible of maintainence of Microprocessor and Micro-computer Kits.
- Responsible for maintainence of various laboratory equipments.

Laboratory Technician, *Dept. of Production Engineering, Fr. Conceicao Rodrigues College of Engineering* **May 1998 to June 2004**

- Responsible for maintainence of various laboratory equipments belonging to department of Production Engineering.

Self Initiatives

- Setup Moodle Server for online course management.
- Conducted online quizes and tests on Moodle.
- Conducted online submission of assignments and practicals on Moodle.
- Assistance to placement cell in setting up online aptitude tests on Moodle.

Professional Activities

- Reviewed **52** research papers for **IET Networks** journal, **IEEE Sensors** journal, **IET Sensor Systems** journal, **Journal of Networks and Computer Applications (Elsevier Publications)**, IET Electronics Letters, IET Journal of Information Security, IET Communications, IET Circuits Devices & Systems, IET Journal of Image Processing. My profile as a Reviewer can be verified from the URL: **https://publons.com/researcher/1388213/vaibhav-godbole/peer-review/**

- Conducted a workshop on **"Introduction to LaTeX"** under faculty development program on "Effective Technical Paper Writing" organized by dept. of Electronics, Fr. CRCE on 30th August, 2013.

- Conducted a One-day FDP on Teaching and Assessment using Moodle held at Agnel Technical College, Bandra on 18th July, 2014

- 2-day training program conducted on Introduction to Hadoop for CRCE students on $25^{th} - 26^{th}$ July, 2014

- Technical team leader for Laboratory setup for a faculty development program on "Introduction to big data analysis using Hadoop", at Fr. CRCE, Mumbai, in August 2013.

- Technical team leader for laboratory set-up activities for the ISTE/STTP on "Internet Technologies", conducted by Department of Computer Engineering, Fr. CRCE.

- Co-ordinator for National Conference on Digital Signal Processing (NCDSP 2007), held in December 2007, at Fr. CRCE.

- Judge for the Project competetion held at Fr. CRCE organized by IEEE-CRCE in October 2008, 2019

NPTEL Courses

- Database Management Systems with **Elite** Grade.
- Big Data Analytics with **Elite** Grade.

Institute / Department level Administration

- Responsible for network connectivity of computers (around 500 nos.),attendance machines across the complex. (2008-2015)
- Involved in user account management, database server management, ftp server management, router management.
- Involved in license server management. (Matlab, Rational Suite)(2008-2015)
- Test Center Administrator for CAT examination in year 2009-10.
- Preceding Officer for Online GATE examination conducted by MHRD, Govt. of India, held in 2014 and 2015
- Test Center Administrator (TCA) for JEE Examination conducted by MHRD, Govt. of India, held in April, 2015
- Co-ordinator for Common Admission Process (CAP) rounds in year 2011-12.
- Active team member for CAP rounds in year 2010-11, 2008-09, 2007-08, 2006-07, 2006-07.
- Involved in Computer Lab set-up for CAP rounds in year 2011-12, 2010-11, 2009-10, 2008-09.
- 4. Team member of publication team for ICSC3 (International Conference) held in March 2015

PUBLICATIONS

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[1] "Performance analysis of clustering protocol using fuzzy logic for wireless sensor network," *IAES International Journal of Artificial Intelligence (IJ-AI)*, vol. 1, no. 3, pp. 103–111, 2012.

[2] "Genetic algorithm–based energy–efficient protocol for wireless sensor networks," *International Journal of Ultra Wideband Communications and Systems*, vol. 2, no. 3, pp. 133–140, 2012.

[3] "Performance analysis of bio-inspired routing protocols based on random waypoint mobility model," *Defence S & T Technical Bulletin*, vol. 5, no. 2, pp. 114–134, November 2012.

[4] "Intelligent driver mobility model and traffic pattern generation based optimization of reactive protocols for vehicular ad-hoc networks," *International Journal of Information and Network Security (IJINS)*, vol. 2, no. 3, pp. 207–215, 2013.

[5] "New approach for routing in mobile ad-hoc networks based on ant colony optimisation with global positioning system," *IET networks*, vol. 2, no. 3, pp. 171–180, 2013.

[6] "Mobility models and traffic pattern generation–based optimisation of reactive protocols," *International Journal of Intelligent Engineering Informatics*, vol. 2, no. 1, pp. 30–46, 2013.

[7] "Performance analysis of AntNet-LA protocol for ad-hoc networks based on disaster area mobility model," *Radio Electronics Society, Vietnam (REV) Journal of Electronics and Communications*, vol. 3, no. 1-2, pp. 28–39, 2013.

[8] "FCA-an approach on leach protocol of wireless sensor networks using fuzzy logic," *International Journal of Computer Communications and Networks*, vol. 3, no. 1, pp. 1–13, 2012.

[9] "Multi-level scalable textual-graphical password authentication scheme for web based applications," *REV Journal on Electronics and Communication*, vol. 3, no. 3-4, pp. 114–121, 2013.

[10] "Aco-based biology inspired routing protocol for ad hoc networks," *International Journal of Swarm Intelligence*, vol. 1, no. 4, pp. 299–320, 2015.

[11] "Extraction of silver nano particle from x-ray waste using proteolytic enzyme," *Defence S & T Technical Bulletin*, vol. 9, no. 2, pp. 75–85, 2016.

[12] "A message cryptography technique using dna based hybrid approach," *Defence S & T Technical Bulletin*, vol. 12, no. 1, pp. 79–90, 2019.

Citations

No of citations (from Google Scholar profile) as on today: **72**

PROFESSIONAL
EXPERIENCE

Junior Engineer, *Tancom Electronics, Tandon Associates Inc., SEEPZ, Andheri (E)*
May 1995 to April 1998

- Responsible for maintainence of automatic coil winding machines.
- Responsible for production processes of hard-disk head-stacks

TECHNICAL
SKILLS

- Network-simulator -2 (ns-2), Omnet++
- LATEX
- Octave, Matlab
- Moodle server administration

- Linux server administration
- Oracle and Postgresql server user account management
- LDAP server management
- Web-server management
- Programming: C, C++, Python, Tcl-tk, UNIX shell scripting, SQL, awk
- Applications: Microsoft Office, and other common productivity packages for Windows and Linux platforms
- Operating Systems: Microsoft Windows XP/2000/7, Redhat/CentOS/Ubuntu Linux, Solaris, Mac OS X,

MATHEMATICAL EXPERTISE

Linear and Nonlinear Systems Theory
Probability, Random Variables, and Stochastic Processes
Matrix Theory and Matrix programming

HOBBIES

- Trekking (Participated in various national level trekking programs organized by Youth Hostel Association of India (YHAI))
- Photography
- Solving mathematical problems and crosswords

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This curriculum vitae is prepared in LATEX and is updated on Monday 9th September, 2019