Curriculum Vitae

Name :   Dr. Vinod Keshaorao Pachghare

Designation: Associate Professor

Department of Computer Engineering & IT

College of Engineering Pune (COEP)

Date of Birth :   07th April 1967

Highest Qualifications :   Ph.D. [Computer Engineering]

Academic Performance :
(High School to Highest
Qual.)

Qualification	Board/ University	Class	Year of passing
B.E. Computer Engg.	Amravati	First	1990
M.E. Computer Engineering	Pune	First	2007
PhD. Computer Engineering	Pune	NA	2013

Experience: 28 years teaching

Award: Best Faculty Award 2018 by CSI, Mumbai Chapter

Membership of Associations/Societies:

IEEE, CSI, ISTE, IAENG, IACSIT, Computer Science Teachers Association (CSTA), Science and Engineering Institute (SCIEI)

PhD Supervisor: Pursuing 5 students for PhD work under SPPU Pune

1. Rupali M Chopade, PhD scholar, working on, "Performance evaluation technique for establishment of deleted data in the database forensic applications".

2. Shyamal Satish Virnodkar, PhD scholar working on, "Machine Learning based Crop Water Stress Identification Model for Sugarcane".

3. Pooja Pol, PhD scholar working on, "Trust Computing Framework based on Big Data Analysis in Distributed Data Sharing".

4. Rahul Baliram Adhao, PhD scholar working on, "Network Traffic Classification for Intrusion Detection System using Flow Based Approach".

5. Avinash Rajendra Kshirsagar, PhD scholar working on, "Efficient use of Blockchain Technology for Decentralised Applications".

M. Tech project guided: 22

Editor: White Knight Annual Technical Magazine, COEP Pune

Research Projects:

1. Chief Investigator for the Information Security Education and Awareness [ISEA] Project Phase-II, Department of Information Technology, Gov. of India Rs. 148 Lakh. 2014-20

2. Principal Investigator for RPS "Wireless Intrusion Detection System", AICTE Rs. 10 Lakh. 2013-16

3. Co-Investigator for the Information Security Education and Awareness [ISEA] Project Phase-I, Department of Information Technology, Gov. of India. 2005-2013

4. Investigator for the R and D project " Intrusion Detection System", The Institution of Engineers (India) 2009-10

Consultancy

Title of Consultancy work	Client	Amount Earned	Period	Main or Consultant
One day symposium on Information & Cyber Security Research, 6th October 2018	CrowdStrike India Pvt Ltd	1.25 Lakh	2018	Sponsorship for the event Worked as event Coordinator
One Day Symposium on Cyber Security	FinIQ, Pune	1.50 Lakh	2018	Sponsorship for the event Worked as event Coordinator
One day symposium on Information & Cyber Security Research, 16th September 2017	FinIQ, Pune	1.00 Lakh	2017	Sponsorship for the event Worked as event Coordinator
FDP on Recent Trends in Cryptography and Network Security 18th - 22nd January 2016	IBM India	Rs. 50,000	2016	Sponsorship for the event Worked as event Coordinator

FDP/ Symposium Coordinated:

1. FDP on "Digital Forensics and Data Recovery", of Engineering, Pune, March 11-15, 2019
2. Symposium on "Information and Cyber Security Research", College of Engineering, Pune, Oct 6, 2018
3. FDP "Cyber Forensics and Information Security", College of Engineering, Pune, Dec 4-8, 2017
4. Symposium on "Cyber Security", College of Engineering, Pune, Nov 23-24, 2017
5. Symposium on "Information and Cyber Security Research", College of Engineering, Pune, Sept 16, 2017
6. Network System Administration & Security, College of Engineering, Pune, March 8-12, 2017
7. Recent Trends in Cyber Security, College of Engineering, Pune, 13th to 17th Feb 2017
8. One Day Workshop on Cyber Security Awareness, College of Engineering, Pune, Sept 17, 2016
9. Recent Trends in Cryptography and Network Security 18th - 22nd January 2016
10. Two day symposium on "Emerging Trends in Information Security" 4-5 March 2010
11. Cyber Security 13th-15th Jan 2008
12. Information Security 31st Dec2007 – 4th Jan 2008
13. Faculty Development Programm on Multimedia Applications on Apple Systems (Co-Coordinator) – 13rd Feb 2007 – 15th Feb 2007
14. Workshop on Computer Forensics & Data Recovery 21st -22nd Aug 2006
15. Workshop on Information Security- Digital Signature 18th -19th Aug. 2006

FDP Attended:

1. One week Winter School on "Optimization and optimal control: A data based approach", College of Engineering, Pune, 3rd to 7th December 2018
2. One week workshop on "Outcome Based Education and Accreditation", College of Engineering, Pune, 2nd to 6th July 2018

3. Embedded System Design: A Microcontroller Approach, College of Engineering, Pune, 20th Nov to 1st Dec. 2017

4. Recent Trends in Cyber Security, College of Engineering, Pune, 13th to 17th Feb 2017

5. Optimization and Optimal Control, College of Engineering, Pune, 15th to 21st Dec. 2016

6. Wavelet Transforms & its Applications, College of Engineering, Pune, 27th June to 8th July 2016

7. Select Topics in Signal Processing and Machine Intelligence with Hands- On College of Engineering, Pune 23rd May to 3rd June 2016

8. Recent Trends in Cryptography and Network Security, Jan 18-22, 2016, at College of Engineering, Pune

9. Embedded System Design using Altium's Integral Development Environment and FPGA, June 15-26, 2015, at College of Engineering, Pune

10. Embedded System Development Using DSPs, May 20-31, 2013, at College of Engineering, Pune

11. Machine Learning and Data Mining Approaches: A Research Perspective, March 28-April 06, 2013, at College of Engineering, Pune

12. Tool Assisted Software Analysis for Practical Applications, December 10-19, 2012, at College of Engineering, Pune

13. Scientific Computations on General Purpose Processing Units (SciCompGPU) June 18-22, 2012, at College of Engineering, Pune

14. A Graphical Programming Language LabView and Its Industrial Applications from 14th May to 25th May 2012 at College of Engineering, Pune

15. Neural Network from 13th June to 25th June 2011 at Sinhgad College of Engineering, Pune

16. Information Security, 6-10 July 2009, at COEP, Pune

17. Practical aspects of parallel processing at C-DAC, Pune from 21st Nov 2006 to 25th Nov 2006

18. Network Security at IIT Kharagpur from 8th May 2006 to 13th May 2006

19. Enhancing Teaching Excellence and Integration of Technologies in Class Room Teaching during 14th to 16th Sept 2005

20. Intelligent Control and Automation from 10th January to 22nd January 2005

21. Training Sun Solaris at Bangalore, Oct 2004

22. Advanced Digital Signal Processing From 22 March to 31st March 2004

23. Specification Techniques at TRDDC, Pune from 5th Jan 2004 to 9th Jan 2004

24. Program Analysis at TRDDC, Pune from 3rd Jan 2003 to 9th Jan 2003

25. VOIP at IISC Bangalore Nov 2002

26. Embedded system IIT Mumbai, May 2002

Publication:

a) BOOKS:

Title of the Book	Publisher	Year	Edition
Cryptography and Information Security	PHI Learning, New Delhi ISBN-13: 978-8120335219	Jan 2009	First
Cryptography and Information Security	PHI Learning, New Delhi ISBN No. 978-81-203-5082-3	Jan 2015	Second
Cloud Computing	PHI Learning, New Delhi ISBN No. 978-81-203-5213-1	Jan 2016	First
Computer Graphics	Laxmi Publication New Delhi	2000	First
Computer Graphics	Laxmi Publication New Delhi	2007	Second
Computer Graphics	Laxmi Publication New Delhi ISBN No. 978-81-318-0565-7	2012	Third

b) International Journal

1. V. K. Pachghare et al., " Using Arduino And Wifi With Rssi To Control Led: An Iot Based Approach", International Journal Of Innovative Research In Technology, July 2017 | IJIRT | Volume 4 Issue 2 | ISSN: 2349-6002

2. V. K. Pachghare et al., "Automated Update Mechanism using Streams and MD5 Algorithm designed for Remote Clients", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 6, June 2017

3. V. K. Pachghare et al., "A Comparative Study of Database Connection Pooling Strategy", International Research Journal of Engineering and Technology (IRJET), Volume: 04 Issue: 05 | May -2017

4. V. K. Pachghare et al., " Profiling REST Services with Advent of Aspect Oriented Modelling", International Journal of Innovative Research in Computer and Communication Engineering, Vol. 5, Issue 3, March 2017

5. V. K. Pachghare et al., "Design of an efficient automation framework for the Web application", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET) Volume 5, Issue 5, May 2016

6. V. K. Pachghare et al., "Interactive Response System (IRS) with Text & Call Support in Contact Center Application", International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Volume 5, Issue 4, April 2016

7. V. K. Pachghare, "Security Mechanisms in Wireless Network", Journal of Network Security Computer Networks, Vol. 2 Issue 2, 2016

8. V. K. Pachghare, " Microservices Architecture for Cloud Computing", Journal of Information Technology and Sciences, Volume 2 Issue 1, 2016

9. Sagar C. Gavande, Dr. V. K. Pachghare, Rahul Adhao, "Wireless Intrusion Detection System using Reputation", International Journal of Advanced Research in Computer Science and Software Engineering, Volume 5, Issue:4, 2015, ISSN: 2277 128X

10. V. K. Pachghare, Amiya Chakraborty" The RSA Challenge: Urge for Advent of Neoteric Encryption System", International Journal of Computer and Internet Security, ISSN 0974-2247 Volume 6, Number 1 (2014), pp. 1-10, © International Research Publication House http://www.irphouse.com

11. V. K. Pachghare, Avinash R. Kshirsagar, Rahul B. Adhao, "Hybrid Model for Adaptive-IDS using Machine Learning Approach", Journal of Network Security ISSN: 2321-8517 (online) Volume 2, Issue 2

12. Rahul B. Adhao , Avinash R. Kshirsagar,Dr. Vinod K. Pachghare, "NIDS Designed Using Two Stages Monitoring", International Journal of Computer Science and Information Technologies, Vol. 5 (1) , 2014, 256-259 Impact Factor -2.93

13. Sharmila Kishor Wagh, Dr. Vinod K. Pachghare, Dr. Satish R. Kolhe, Survey on Intrusion Detection System using Machine Learning Techniques, International Journal of Computer Applications (0975 – 8887) Volume 78 – No.16, September 2013 IF- 2.52

14. Dr. Vinod Pachghare, Vinod Maid, "Contention Based Fair Scheduling Protocol for Wireless LAN", Indian Journal of Research, PARIPEX, Volume : 3 | Issue : 4 | May 2013. Impact Factor is 1.6714

15. V. K. Pachghare, V. K. Khatavkar, Dr. Parag Kulkarni, "Pattern Based Network Security Using Semi-Supervised Learning", International Journal of Information & Network Security (IJINS) Vol. 1, No. 3, August 2012 : 228 – 234, ISSN: 2089-3299

16. V. K. Pachghare, V. K. Khatavkar, Dr. Parag Kulkarni, "Performance Analysis of Supervised Approach for Pattern Based IDS", IJCA Special Issue on "Network Security and Cryptography" NSC, 2011, pp. 20-23

17. V. K. Pachghare, V. K. Khatavkar, Dr. Parag Kulkarni, "Performance Analysis of Semi-Supervised Intrusion Detection System", IJCA Special Issue on "Network Security and Cryptography" NSC, 2011, pp. 15-19

18. V. K. Pachghare, "Building Intrusion Detection System Using AdaBoost Algorithm" , International Journal of Computer Science and Security , Vol. (4), Issue (2) 2010.

19. V. K. Pachghare, Vivek Patole, Dr. Parag Kulkarni, "Self Organizing Maps to Build Intrusion Detection System", International Journal of Computer Applications, Vol. 1, No. 8, 2010, pp. 1-4

20. V. K. Pachghare, Dr. Parag Kulkarni, Deven M. Nikam, "Overview of Intrusion Detection Systems", International Journal of Computer Sciences and Engineering Systems, Vol. 3, No. 3, 2009, pp. 265-268

21. V.K. Pachghare, Parag Kulkarni, Deven M. Nikam, "Neural Network Algorithms for Building Pattern Based Network Security", International Journal of Scientific Computing, Vol. 3, No. 1, 2009, pp. 37-37

22. V. K. Pachghare, "Watermarking of a color bitmap image", International Journal of Engineering Research and Industrial applications Vol. I, No. 1, 2008.

23. V. K. Pachghare, "Predicate abstraction of C Program" , International Journal of Computer Sciences and Engineering Systems Vol. 2, No. 1, Jan 2008

24. V. K. Pachghare, Dr. Parag Kulkarni, "Pattern Based Network Security: An Overview", International Journal of Computer Science and Network Security, Seoul, Korea Vol. 8, No. 10, 2008, pp. 314-318

25. V. K. Pachghare, "PACT – A new approach to self healing mechanism", International Journal of Computer Science and Network Security, Seoul, Korea Vol. 7 No. 10, Oct 2007.

c) International Conferences

1. Vinod Pachghare, Deepak Kshirsagar, Gayatri Patil, "Feature Reduction in Flow Based Intrusion Detection System", 3rd IEEE International Conference On Recent Trends In Electronics, Information & Communication Technology, 2018

2. Snehalkumar Swaisarje, Vinod Pachghare, Deeapk Kshirsagar, "Malware Detection based on String Length Histogram using Machine Learning", 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT - 2018)

3. Rahul B. Adhao , Avinash R. Kshirsagar,Dr. Vinod K. Pachghare, "Reputation Based Fast Intrusion Detection, Proceedings of 3rd IRF International Conference, 10th May-2014, Goa, India, ISBN: 978-93-84209-15-5

4. V. K. Pachghare, V. K. Khatavkar, Dr. Parag Kulkarni, *"Pattern Based IDS using Supervised, Semi-supervised and Unsupervised approaches",* CCSIT 2012, Part-I LNICST 84, Institute of Comp. Sc., Social Informatics & Telecom Engg. 2012, Springer, pp. 542-551

5. V. K. Pachghare, Dr. Parag Kulkarni, *"Pattern Based Network Security Using Decision Trees And Support Vector Machine"*, 3rd International Conference on Electronics Computer Technology (ICECT), Kanyakumari, 2011 IEEE pp. 254-258

6. V. K. Pachghare, Dr. Parag Kulkarni, *"Performance Analysis of Pattern Based Network Security"*, 2nd International Conference on Computer Technology and Development(ICCTD 2010) Cairo, Egypt, 2-4 Nov, 2010, IEEE, pp. 277-281

7. V. K. Pachghare, Dr. Parag Kulkarni, Deven Nikam, *"Intrusion Detection System using Self Organizing Maps",* International Conference on Intelligent Agent and Multi-agent Systems (IAMA) 2009

8. V. K. Pachghare, Dr. Parag Kulkarni, Deven Nikam, *"Neural Network Algorithms for Building Pattern Based Network Security",* International Conference on VLSI and Communication ICVCom, 2009.

9. U. Adsule, V. K. Pachghare and P. Kulkarni, *"Efficient intrusion detection system models",* Computer and Network Technology, proceedings of the international conference on ICCNT 2009, Chennai, India , 24 - 26 July 2009, pg 199-203.

d) National Conferences

1. V. K. Pachghare, et. al., "Overview of Intrusion Detection System" , Business Technologies Conference, Indore, (March 2009)

Admin :-

1) Ph. D. Coordinator
2) Ph. D. Admission
3) Member, Department Purchase Committee
4) Incharge, Department Library Committee
5) M.B.A. Admission
6) FY B. Tech Admission
7) Departmental Controller of Examination
8) Coordinator FY M. Tech. Computer Admission

13.Other Information:

Worked as reviewer and session chair for various International Conferences.

Acted as Reviewer for the Book "Software Testing", McGraw Hill Dec 2015

Acted as Reviewer for the Book "Cryptography", Pearson Education in May 2006

Worked as member of Board of Studies, Computer Engineering, Pune University (2001-2006)

Working as member of Subject Board, Computer Engineering and Information Technology, COEP, Pune

Working as member of Board of Studies in Computer Engineering/Information Technology at Various Autonomous Colleges and KBC North Maharashtra University

Jalgaon

Co-coordinator for Linux and Networking Course conducted in 2004

Worked as committee member for Director of Technical Education, Mumbai, University of Pune and BATU, Lonere

Worked as resource person on recent and state of the art topics in Computer Engineering and Information Technology.

Worked as M. Tech. Coordinator for Computer Engineering

Working as PhD coordinator for Computer Engineering

Signature sd/
Vinod Keshaorao Pachghare