

CURRICULUM VITAE



Dr. Sumit Kar

Asst. Professor

Department of Computer Science & Engineering

Bhadrak Institute of Engineering & Technology, Barapada
Bhadrak, Odisha

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CAREER OBJECTIVE:

To be an excellent and esteemed technocrat bearing positive outlook, progressive in nature and not loosing hope even in extreme darkness. Intend to associate with progressive organization that gives scope to apply my knowledge and skills, and to be a part of the team that dynamically works towards growth of the organization.

ACADEMIC PROFILE:

- ✓ **Ph.D.** degree from **Utkal University**, Bhubaneswar in the subject **Computer Science Engg.** Application in **2019**.
- ✓ **Master of Technology (M.Tech)** in **Information Security** at **National Institute of Technology, Rourkela**.
- ✓ **Bachelor of Engineering (B.E)** in **Computer Science & Engineering** from **B.I.E.T, Bhadrak** in **2006**.
- ✓ **Intermediate in Science (+2)** from **D.D College, Keonjhar** in **2001**.
- ✓ **10th** from **Fakirpur High School, Fakirpur** in **1999**.

WORK EXPERIENCE:

Assistant Professor in Computer Science and Engineering Department of BIET, Bhadrak from **20/07/2009** to till date.

TECHNICAL EXPOSURE:

Programing Languages : C, C++, Shell Script and JAVA.
Tool : MATLAB, Latex.
Databases : ORACLE 9i, MySQL.
Operating System : Windows, Linux

AREAS OF INTEREST:

- ❖ NETWORK & ITS SECURITY ISSUES.
- ❖ CRYPTOGRAPHY
- ❖ ARTIFICIAL INTELLIGENCE
- ❖ COGNITIVE RADIO NETWORKS
- ❖ WIRELESS SENSOR NETWORKS

SCHOLASTIC ACHIEVEMENTS:

- I have cleared the GATE at first attempt in 2006 with a score of 399 and AIR-1395 in Computer science & Engg.
- Represented as Member of Student Activity Center (SAC) at NIT Rourkela.
- Organizing member of ICIT-2007 by C.S.E dept, NIT, Rourkela.

SUBJECTS TAUGHT (UG/PG):

Computer Organization & Architecture Advanced Computer Architecture, Cryptography & Network Security, Computer Network & Data Communication, Embedded Systems, Real Time Systems, Operating System, Artificial Intelligence & Machine Learning.

RESEARCH PUBLICATIONS:

A) Journals:

1. **Sumit Kar**, B.D. Sahoo, "An Anomaly Detection System for DDOS Attack in Grid Computing", International Journal of computer Applications in Engineering Technology and Sciences (IJ-CA-ETS), April 2009 issue, pp. 553-557.
2. **Sumit Kar**, Srinivas Sethi and Manmath Kumar Bhuyan, "Security challenges in cognitive radio network and defending against Byzantine attack: a survey", International Journal of Communication Networks and Distributed Systems, Vol. 17, No. 2, **Inderscience**, 2016, pp.120-146. DOI:10.1504/IJCND.2016.079098.
3. **Sumit Kar** and Srinivas Sethi, "A Secure Collaborative Spectrum Sensing Mechanism based on User Trust in Cognitive Radio Networks, Proc. of the National Conference on Next Generation Computing and its Applications in Computer Science and Technology (NGCAST), 2016(1), International Journal of Computer Applications (**IJCA**), August 2017, pp. 11-15.
4. **Sumit Kar**, Srinivas Sethi, and Ramesh Kumar Sahoo, "A Multi-factor Trust Management Scheme for Secure Spectrum Sensing in Cognitive Radio Networks", Wireless Personal Communications, **Springer**, Vol.97, No. 2, PP. 2523-2540, 2017, DOI:10.1007/s11277-017-4621-5.

B) Conferences:

1. Manmath Kumar Bhuyan, Durga Prasad Mohapatra, Srinivas Sethi, **Sumit Kar,**” *An Empirical Analysis of Software Reliability Prediction through Reliability Growth Model Using Computational Intelligence*”, proc. of the International Conference on Computational Intelligence in Data Mining (CIDM)- Volume 2, **Springer**, December-2014, pp. 513-524.
2. **Sumit Kar**, Srinivas Sethi, and Ramesh Kumar Sahoo, “*A Trust Based Technique For Secure Spectrum Access in Cognitive Radio Networks*”, In International Conference on Computing, Analytics, and Networking (**ICCAN**), December 2017, Advances in intelligent system and computing, vol-710, pp. 9-18, **Springer**.
3. **Sumit Kar**, B.D. Sahoo, “*Securing Grid against Distributed Denial of Service attack using an Entropy based Anomaly Detection System*”, proc. of the National Conference on Research Trends in Computer Applications, March 2009, pp. 47-51.
4. **Sumit Kar**, Bibhudatta Sahoo,” *Security Issues and Preventive Model for Grid computing*”, Proc. of the National Conference on Modern Trends of Operating Systems, (MTOS- 09), March, 2009, pp.35-38.

PROFESSIONAL MEMBERSHIP:

- International Association of Engineers (IAENG), Member No: 102989.
- Life member of ISTE, Member No: LM 124489.

ADMINISTRATIVE EXPERIENCE

- Faculty-In charge, Examination section since 2011.
- Member of student grievances and disciplinary committee.
- Vice-president, Cultural committee
- Worked as Asst. superintendent of boys hostel from 2010-2016.
- PIC, Computer Cell science 2020.

GUIDANCE OF PH.D. / M.TECH. THESIS

- M.Tech.: 07

REVIEWER OF JOURNALS/CONFERENCES

- International Conference on Machine Learning, Internet of Things and Big Data (ICMIB-2020, ICMIB 2021, ICMIB-2023, ICMIB-2024, ICMIB-2025), Springer.
- IEEE International Conference on Intelligent Controller and Computing for Smart Power, (ICICSP 2022).
- International Conference on Cutting Edge Technology in Computing Communication and Intelligence, 2024.
- 1st IEEE International Conference on Smart Power Control and Renewable Energy (ICSPCRE-2024).

- BPUT Multi-International Conference on Emerging Trends in Evolving Technology (BMIC-ETET 2025).
- IEEE International Conference on Air Defense and Security (ICADS-26).

SHORT-TERM COURSE/WORKSHOP ATTENDED:

- AICTE-ISTE sponsored induction program on “Soft computing and Machine learning” from 9th July 2018 to 14th July 2018 at seemanta Engineering college, Mayurbhanj.
- AICTE Training And Learning (ATAL) Academy Online FDP on “Cyber Security” from 26th May 2020 to 30th May 2020 at JNU, New Delhi.
- Online FDP on “Engineering in Recent Scenario” from 6th June 2020 to 8th June 2020 organized by Dept. of PG Studies, DSEC, Perambalur.
- Webinar on “Strategies of E- Content Development” on 17th June 2020 organized by MSAJCE, Chennai.
- International Webinar on “Machine Learning in Cyberpsychology Studies” on 29th May 2020 Organized by GIET, Bhubaneswar.
- Online FDP on “Information Security & Cryptography” from 20th June 2020 to 22th June 2020 organized by LIET, Vizianagaram.
- One week FDP on “Cryptography and Lightweight Protocols for Cyber-Physical Systems” from 27th to 31st January 2025 at IIIT,BBSR under ISEA Project.

M.Tech. THESIS PROFILE:

Title: AN ANOMALY DETECTION SCHEME FOR DDOS ATTACK IN GRID COMPUTING

Supervisor: Prof. (Dr.) B.D. Sahoo, CSE Dept., NIT Rourkela.

Ph.D. THESIS PROFILE:

Title: A STUDY OF SECURITY AND ITS CHALLENGES IN COGNITIVE RADIO NETWORK

Supervisor: Prof. (Dr.) S. Sethi, CSE&A Dept., IGIT, Sarang.

PERSONAL PROFILE:

Name : SUMIT KAR
Father's Name : Mr. BASANT KUMAR KAR.
Mother's Name : Mrs. SABITA KAR.
Date of Birth : 27-07-1984
Gender : Male
Marital Status : Married
Nationality : Indian
Languages Known : English, Hindi and Oriya.
Hobbies : Listen to music, Reading newspaper
Strength : Leadership skills, Innovative Ideas, Self-confidence, Optimism and Hard working.

Permanent & Present Address : S/O Basant kumar kar.
At: Fakirpur,
P.O.: Fakirpur,
Dist.: Keonjhar, Odisha – 758022.

DECLARATION:

I hereby declare that the informations furnished above are true to the best of my knowledge and belief.

Place: BIET, Bhadrak.
Date:

Dr. Sumit Kar