

Faculty Profile (For booklet and website)

Name: Sudesh Kumar

Designation: Assistant Professor

Department: Computer Science & Engineering

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Contact Number and Extn.: (M)9086261284 , Office 2307

Qualification: B.Tech(C.S.E), M.E(C.S.E)

Experience:

| | | | |
|------------------|------------------|------------------------|---------------|
| Teaching: | Research: | Administration: | Total: |
| 6.5 | 1 | 1 year | 7.5 |

Areas of Interest / Specialization:

1. Computer Networks
2. Network Security

Brief Bio-data:

He obtained his bachelor of engineering in 2006 from Rajasthan University, Jaipur and master of engineering in 2009 from Punjab Engineering College, Chandigarh. Before joining the department of computer science & engineering, Shri Mata Vaishno Devi University, Katra he has worked at Banasthali University, Rajasthan and National Institute of Technology, Jalandhar.

Administrative Responsibilities

- Faculty In-charge, Network Centre, SMVDU.
- Remote Centre Coordinator, IIT Bombay.



Research Profile

Research Projects Undertaken:

| S. No. | Role | Title | Funding Agency | Current Status (Closed/ Running) |
|--------|---|-----------------------------------|---------------------|----------------------------------|
| 1 | Remote Centre Coordinator IIT Bombay | Train 10 Thousand Teachers(T10KT) | MHRD, Govt Of India | Running |

Research Publications:

| S. No. | Year | Publication |
|--------|------|---|
| 1 | 2014 | Sudesh Kumar ,Divya Khajuria “Simulation of AODV under Multiple Blackhole and Grayhole Attack in MANETS” <i>International Journal of Computer Applications</i> Volume 93 - Number 10,14-18, May 2014. |
| 2 | 2014 | Sudesh Kumar, Divya Khajuria “Detecting multiple Blackhole and Grayhole attacks in MANETS by modifying AODV” <i>IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p- ISSN: 2278-8727</i> Volume 16, Issue 2, Ver. XII (Mar-Apr. 2014), PP 126-133. |
| 3 | 2014 | Sudesh Kumar Arjun Puri “Error Control Codes: A Novel Solution for Secret Key Generation and Key Refreshment Problem” <i>International Journal of Computer Applications</i> , Volume 92 - Number 1, April 2014. |
| 4 | 2013 | Sudesh Kumar, Arjun Puri “Comparative Analysis of Reed Solomon Codes and BCH Codes in the Presence of AWGN Channel” in <i>International Journal of Information and Computation Technology(IJICT)</i> , ISSN 0974-2239 Volume 3, 2013. |
| 5 | 2013 | <i>Sudesh Kumar, Faisal Rasheed Lone, Arjun Puri ” Performance Comparison of Reed Solomon Code and BCH Code over Rayleigh Fading Channel”, International Journal of Computer Applications, Volume 71 - Number 20, Year of Publication: 2013.</i> |

Books Publications:

| S. No. | Year | Publication |
|--------|------|---|
| 1 | 2012 | Sudesh Kumar “ WiMAX Technology: Security issues & Solutions ”, ISBN No. 978-3-8484-0840-5, LAMBERT Academic Publisher, Germany. Available at http://www.amazon.in/Wimax-Technology-Sudesh-Kumar/dp/3848408406 |

Conference Publications:

| S. No. | Year | Conference | Publication |
|---------------|-------------|---|---|
| 1 | 2017 | IEEE ICSTM 2017 conference from Aug 2 nd – 4 th 2017 at Vel Tech Dr.RR & Dr.SR University, Avadi, Chennai, Tamil Nadu, India. | “Machine Learning based rate adaptation in DASH to improve Quality of experience” |
| 2 | 2017 | International Conference on Machine Learning & Computational Intelligence(ICMLCI-17),SMVDU, Katra, J&K. | “A survey on machine learning : concept, algorithms and applications” |
| 3 | 2009 | “The First International Conference on Networks & Communications” (NetCoM-2009), Chennai, India. | ”An Improved Method of Detecting Spoofed Attack in Wireless LAN” Available in IEEE Explorer |
| 4 | 2009 | IEEE International Advance Computing Conference IACC-2009,Thapar University, Patiala | “Security issues in Privacy and Key Management Protocol” |
| 5 | 2008 | International Conference on Wireless Networks & Embedded Systems (WECON-2008), Chitkara Institute of Engineering and Technology Patiala-140401(India) | “ Improving TCP Performance in Wireless Environments” |
| 6 | 2009 | National Conference on Cutting Edge Computer and Electronics Technologies - (CE) ² T 2009, <i>G.B. Pant University of Agriculture & Technology ,Panmagar ,Uttrakhand</i> | “An Organizer Approach for Redeployment in Wireless Sensor Network” |
| 7 | 2009 | Recent Trends in Computer Science and Information Technology, sponsored by AICTE, New Delhi, BCET, Gurdaspur, Punjab | “A new Inter-domain Routing Protocol (Hybrid Link State Path Vector) ” |
| 8 | 2008 | National Conference On Electronics Instrumentation & Control System, Apeejay College of Engineering, Sohna, Gurgaon | “ EFFICIENT AND EMBEDDED COLOR IMAGE CODING TECHINQUE” |
| 9 | 2009 | CONFERENCE ON EMERGING TRENDS IN COMMUNICATION, SVIET, Patiala (Punjab) India | ”Privacy and Key Management Protocol” |
| 10 | 2009 | CONFERENCE ON EMERGING TRENDS IN COMMUNICATION, SVIET, Patiala (Punjab) India | ”Spoofing Detection Methods in wireless LAN” |

Research Supervised:

| S. No. | Year | Role | Research Topic | Status |
|--------|------|------------|---|-----------|
| 1 | 2016 | Supervisor | Machine learning based rate adaptation in DASH to improve QoE | Completed |
| 2 | 2015 | Supervisor | Segmentation-Free Recognition of Urdu Script Using HMM | Completed |
| 3 | 2015 | Supervisor | Detecting multiple blackhole and grayhole attacks in MANETs by modifying AODV | Completed |
| 4 | 2014 | Supervisor | Performance Improvement of Wireless TCP using Modified LDA | Completed |
| 5 | 2013 | Supervisor | Error Control Codes: A Solution for Secret Key Generation and Key Refreshment Problem | Completed |

Patents:

| S. No. | Name | Status |
|--------|------|--------|
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Award and Honours:

| S. No. | Title | Activity/Event | Given by | Year |
|--------|-------|----------------|----------|------|
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Professional Affiliation:

| S. No. | Designation | Organization |
|--------|--|---|
| 1 | <ul style="list-style-type: none"> Reviewer of International Journal on Web Service Computing (IJWSC) | <ul style="list-style-type: none"> Academy & Industry Research Collaboration Center (AIRCC), |
| 2 | Member (Membership No: 141037) | <ul style="list-style-type: none"> International Association of Engineers (IAENG), Hong Kong |