

CURRICULUM VITAE

Prof. (Dr.) Jawahar Thakur



1. Personal Details:

Name Dr. Jawahar Thakur
Designation & Address Professor
Department of Computer Science
Himachal Pradesh University
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Home: <http://www.hpuniv.ac.in>
Nationality Indian
Date of Birth 24th February, 1972
Permanent Address Village Manjhloo, Post Office
Karyas, Tehsil, Pangi, District,
Chamba, Himachal Pradesh-1716323

2. Educational Qualifications:

<i>Name of the Degree</i>	<i>Institute/University</i>	<i>Passing Year</i>
<i>Ph.D.</i>	<i>Himachal Pradesh University, Shimla</i>	<i>2016</i>
<i>M. Tech.</i>	<i>NITTTR- Chandigarh, Punjab University, Chandigarh</i>	<i>2010</i>
<i>B. Tech.</i>	<i>NIT- Hamirpur (Formerly REC</i>	<i>1996</i>

	Hamirpur)	
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3. Areas of Interest:

Mobile Ad hoc Network, Wireless Sensor Network
Computer Network, cloud computing, System analysis
and Design, Software Engineering, data mining,

4. Research Guidance:

S. No.	Programme Name	Scholar Name	Research Topic	Status	Year
1.	M. Tech.	Nayan Mahajan	Management of Handover in Universal Mobile telecommunication system	Completed	2011
2.	M. Tech.	Nagesh Kumar	Performance Analysis of Symmetric key Cryptography algorithms: DES, AES & Blowfish	Completed	2011
3.	M. Tech.	Neeraj Sharma	Performance Analysis of AODV & GPSR Routing Protocols in VANET	Completed	2012
4.	M. Tech.	Sanyogita Manhas	A Study of Various load Balancing algorithms in Cloud Computing and an Attempt to propose a New algorithms	Completed	2012
5.	M. Tech.	Priyanka Rahi	Analysis of requirement and performance factors of business intelligence through web mining	Completed	2013
6.	M. Tech.	Vikash Kumar	An Efficient Channel Utilization scheme for Multi-channel Mac protocols in WSN	Completed	2013

S. No.	Programme Name	Scholar Name	Research Topic	Status	Year
7.	M. Tech.	Ankit Sharma	Heterogeneous energy efficient -low energy adaptive clustering hierarchy protocol for clustering in wireless sensor networks (HEE-LEACH)	Completed	2013
8.	M. Tech.	Priyanka Bansal	Simulation and analysis of DSR,AODV & CGSR Routing protocols based on energy consumption for MANET	Completed	2013
9.	M. Tech.	Swati Katoch	A Qualitative and Quantitative comparative analysis of load balancing algorithms in cloud computing environment	Completed	2014
10.	M. Tech.	Divya Chauhan	Boosting decision tree algorithms for weather prediction	Completed	2014
11.	M. Tech.	Sushant Patial	Uncoordinated checkpointing algorithms in MANETs: A comparative analysis	Completed	2014
12.	M. Tech.	Rekha	Co-ordinated checkpointing algorithm in Distributed Systems:A performance analysis	Completed	2015
13.	M. Tech.	Mukesh Chauhan	Rapid revision software development life cycle model (RR-SDLC Model 2016)	Completed	2016
14.	M. Tech.	Shalini	A comparative analysis of web performance trsting tools : NEOLOAD,LOADIMPACT and LOADSTORM	Completed	2017

S. No.	Programme Name	Scholar Name	Research Topic	Status	Year
15.	M. Tech.	Kumari Sarita	Simulation based performance evaluation of symmetric key cryptographic algorithms: DES, 3DES, AES & Blowfish	Completed	2017
16.	M. Tech.	Yogesh Banyal	A Simulated performance analysis of load balancing in cloud computing	Completed	2017
17.	M. Tech.	Ahmad Khalid Nuristani	Security issues and comparative analysis of security protocols in Wireless sensor networks: TinySec and LLSP	Completed	2018
18.	M. Tech.	Shilpa	AODV & DSR Routing protocols in WSN: A simulated comparison	Completed	2018
19.	M. Tech.	Anita Kumari	Semantic Web: knowledge extraction from DBpedia3.9 English dataset and analysis using SAS enterprise miner	Completed	2019
20.	M. Tech.	Jagdish Yadav	Analysis and detection of BOTNETs using machine learning classifiers	Completed	2020
21.	M. Tech.	Shailja	Ambulance Detection and analysis of Smart traffic management system	Completed	2020
22.	M. Tech.	Shikha Kamal	Recognizing facial expression using CNN classifier	Completed	2020
23.	Ph.D.	Palak Aar		Ongoing	
24.	Ph.D.	Deepak Kumar		Ongoing	
25.	Ph.D.	Ajay Prashar		Ongoing	

S. No.	Programme Name	Scholar Name	Research Topic	Status	Year
26.	Ph.D.	Radhika Dhiman		Ongoing	
27.	Ph.D.	Abhinav Sharma		Ongoing	
28.	Ph.D.	Sushila Pathania		Ongoing	
29.	Ph.D.	Rahul Chauhan		Ongoing	
30.	Ph.D.	Parvesh Sood		Ongoing	

5. Teaching and Research Experiences:23⁺ Years

Sept. 2016 to till date	Professor Department of Computer Science Himachal Pradesh University, Shimla
June 2011 to Sept. 2016	Associate Professor Department of Computer Science Himachal Pradesh University, Shimla
June 2008 to June 2011	Assistant Professor(Grade-I) Department of Computer Science Himachal Pradesh University, Shimla
June 2003 to June 2008	Assistant Professor(Grade-II) Department of Computer Science Himachal Pradesh University, Shimla
June 1997 to June 2003	Assistant Professor Department of Computer Science Himachal Pradesh University, Shimla

6. University Services:

University level

- **Member,** Academic Council
- **Member,** Faculty of Physical Sciences

- **Member,** Inspection Committees as a subject expert
- **Member,** SCA Election Counting Team
- **Member,** Purchase committee of departments, Institutes, Academic Staff college Shimla
- **Member,** flying squad UG, PG examinations
- **Member,** High Power Committees for the XXIV Convocation of the University held on 30th October 2018.
- **Member,** Digitalization of examination records committee of H. P. University.
- **Coordinator,** University Institute of Information Technology (UIIT) from 1st December 2018 till date.
- **Coordinator,** University Coordinator for massive open on-line courses (MOOC's) of UGC from 8th March 2019 till date.
- **Member,** Faculty of Engineering and Technology, UIIT, H. P. University, Shimla.
- **Member,** Board of studies of faculty of Engineering and Technology, UIIT, H. P. University, Shimla from 14th March till date.
- **Member,** Committee to prepare a documentary on the University depicting/highlighting its past background, present status and to chalk out the future planning.
- **Member,** Exams Reform Committee with ERP system.
- **Member,** High Power Committees for the XXVth Convocation of the University held on 29th November 2019.
- **Chairman** Department of Data Science and Artificial Intelligence from 23rd March 2021 to till date.
- **Chairman** Department of Computer Science from 31th July 2021 to till date.

Department level

- **Member,** Board of Studies of Department
- **Member,** RDC of the Department
- **Member,** Standing committee
- **Member,** Moderation committee
- **Member,** MCA Admission committee

- **Member,** M. Tech. Entrance test committee
- **In charge,** Department IT-Lab
- **Coordinator,** Training & Placement cell of Department
- **Coordinator,** MCA Project (Year 2010)
- **Member,** Software & Hardware Purchase Committee of Department
- **Coordinator,** MCA Entrance Test (2011)
- **Coordinator,** Training & Placement cell of Department (2011)
- **Coordinator,** MCA Entrance Test (2012)
- **Coordinator,** MCA 6th Semester Project (Year 2016)
- **Coordinator,** MCA 6th Semester Project (Year 2019)
- **Coordinator,** Departmental NAAC activities from October 2019 to 31st July 2021.
- **Chairman** 31st July 2021 to till date.
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7. Extension/Outreach Activities:

- **Expert,** selection committees of various private and government colleges affiliated to H. P. University.
- **Counselor,** for IGNOU various UG and PG courses.
- **Paper setter/Evaluator,** for various universities; institute viz. GNDU Amritsar, PU Chandigarh, Rajasthan Technical University, Jammu University, Himachal Technical University etc.
- **Joint Secretary,** Alumni Association of NIT-Hamirpur for Shimla Chapter.
- **Expert,** Board of Studies of APG University, Shimla.
- **Member,** Executive committee of HPUTA.
- **Expert,** Subordinate Staff Selection Commission Hamirpur.
- **Expert,** Uttarakhand Public Service Commission.
- **Expert,** Himachal Pradesh Public Service Commission Shimla.
- **Expert,** Board of studies of H. P Technical University, Hamirpur.

8. Professional Services and Achievements:

➤ 8.1 Awards and Honours

- **Coordinator** of UGC sponsored Refresher Course on **"Information Technology"** organized by Academic Staff College, Himachal Pradesh University, Shimla.
- **Resource person** for Refresher courses and Orientation courses organized by Academic Staff College, Himachal Pradesh University, Shimla.
- **Session Chair** in the **National Conference on Recent Trends in Information Technology and its Applications in Industry** India, 25-26 September 2011, (Organized by PG Department of Computer Science and IT, Bhaderwah Campus of Jammu University).
- **Resource Person** in **National Seminar on "Web Based Technologies: Present & the Future"** India, April 30-May 1st 2015. (Organized by Department of Computer Science, St. Bede's College, Shimla).
- **Chairperson** in **National Seminar on "Web Based Technologies: Present & the Future"** India, April 30-May 1st 2015. (Organized by Department of Computer Science, St. Bede's College, Shimla).
- **Resource person** in **National conference on "Advances in Computer Science, E-learning, Software Solutions, Information & Communication Technology, ACS-ICT-2016,** March 29, 2016, (organized by department of computer science and applications, Ch. Ishwar Singh Kanta Mahavidyalaya, fatehapur- Pundri, Kethal, Haryana).
- **Chaired a session in International Conference on Recent Innovations in Computer Science and Information technology (RICSIT-2016,** May 23, 2016, (organized by University institute of information technology in collaboration with Department of Computer Science (DCS, Himachal Pradesh University, Shimla, India.
- **Member** of Technical Program Committee in **International Conference on Recent Innovations in Computer Science and Information technology (RICSIT-2016,** May 23, 2016, (organized by University institute of information technology in collaboration with Department of Computer Science (DCS, Himachal Pradesh University, Shimla, India.
- **Chaired a session in International Conference on Recent Innovations in Computer Science and Information technology (RICSIT-2017,** May 19, 2017, (organized by Department of Computer Science in collaboration with

University Institute of Information Technology,
Himachal Pradesh University, Shimla, India.

- **Member** of Technical Program Committee in **International Conference on Recent Innovations in Computer Science and Information technology (RICSIT-2017)**, May 19, 2017, (organized by Department of Computer Science in collaboration with University Institute of Information Technology, Himachal Pradesh University, Shimla, India.
- **Chairman** Technical committee in **"Reaching the unreachable through Science and Technology"** March 30th to 31st 2018, organized by Indian Science congress Association Shimla chapter, Himachal Pradesh University, Shimla, India.
- **Chaired** the technical Session in **"Reaching the unreachable through Science and Technology"** March 30th to 31st 2018, organized by Indian Science congress Association Shimla chapter, Himachal Pradesh University, Shimla, India.
- **Co-convener** AICTE sponsored Three days Faculty development programme (FDP) Organized by UIIT, H. P. University, Shimla from 24th May to 26th May 2019.
- Organized and attended 6 days workshop on **"Quantum Computing"** sponsored by AICTE and DRDO organized by UIIT, H. P. University, Shimla from 2nd September 2019 to 6th September 2019.
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➤ 8.2 Memberships

- **Life Member**, Computer Society of India (N1259580)
- **Life Member**, Indian Science Congress Association (L34290).

9. Participation in Activities:

• Conferences/Refresher /Orientation/Workshops/Seminars

1. National level seminar on **"Strategy for Sustainable Development of Himachal Pradesh with special emphasis on Industry, Tourism & IT "**. Shimla 6th & 7th November 2006.
2. Attended four-week Orientation Program organized by Academic Staff College, H.P. University, Summerhill, Shimla from
3. Attended three-week Refresher Course on Value

Education, organized by Academic Staff College, H.P. University, Summerhill, Shimla from

4. UGC Sponsored Refresher Course on **"Information Technology"** organized by Academic Staff College, Himachal Pradesh University, Shimla from 1st April 2006 to 21st April 2006.
5. UGC Sponsored Refresher Course on **"Information Technology- Awareness"** Academic Staff College, Himachal Pradesh University, Shimla from 4th April 2008 to 24th April 2008.
6. AICTE sponsored Faculty development programme on '**Mobile Computing**' organized by Department of Computer Science and Engineering, NIT- Hamirpur from 22nd June 2009 to 26th June 2009.
7. Attended AICTE/MHRD Sponsored Short Term Course on **"Internet Technologies (IT-09)"** Organized by Department of Computer Science and Engineering Department, National Institute of Technology, Hamirpur (H.P) from 21st December 2009 to 25th December 2009.
8. One day workshop on '**National Mission on Education Through Information & Communication Technology (NMEICT)**' organized by Himachal Pradesh University, Shimla on 26th September 2009
9. HEC sponsored National Seminar on **"Environment challenges: Sustainable Development"** organized by Department of Environment Sciences, Maharshi Dayanand University, Rohtak, Haryana Participated and presented a paper entitled **"E-Waste A Threat to the Environment"** from 29th March 2010
10. National Seminar on **"Sustainable Bio-fuel Development in Canada and India: Opportunities and Challenges"** organized by Centre for Canadian Studies development Programme, Himachal Pradesh University, Shimla collaboration with Shastri Indo- Canadian Institute, New Delhi, from 16th March to 18th March 2010.
11. **Jawahar Thakur, Chander Shakher and Rajesh Kumar** **"Energy- Efficient Data Aggregation in Cluster-Based Wireless Sensor Networks"** Proceeding of IEEE-MTTS 1st International Conference on Advance in Computing and Communication (ICAAC-2011), India, April 08-10, 2011, (Organized by National Institute of Technology, Hamirpur)

12. **Jawahar Thakur, Chander Shakher and Rajesh Kumar**
"Energy- Efficient Time Synchronization in Wireless Sensor Network" Proceeding of IEEE-MTTS 1st International Conference on Advance in Computing and Communication (ICAAC-2011), India, April 08-10, 2011, (Organized by National Institute of Technology, Hamirpur)
13. **Jawahar Thakur, Rajesh Lavania, & Manu Pratap Singh**
(2011). **" Performance Analysis of Gradient Descent with Momentum & Adaptive Back Propagation and BFGS Quasi-Network Back Propagation of Multilayer Feed Forward Neural Networks for Hand Written Characters of SWARS"**
Full paper Published in Proceeding of " National Conference on Next generation Computing & Information Security (Emerging Trends for Future Challenges), (NCNGCIS-2011), India, March 25th -26th 2011, (Organized by Department of Information Technology, IMS.NOIDA).
14. **Jawahar Thakur & Arvind Kalia** (2011). **"Green Computing: Emerging Trends in Information & Communication Technology"** Full Paper Published in the Proceeding of "UGC Sponsored National Conference on Emerging Trends in Computing and Information Technology, (ETCIT-2011), India, 5th March, 2011, (Organized by P.G. Department of Computer Science & Information Technology, GGS Khalsa College, Punjab.
15. **Jawahar Thakur** (2011) **"Role of ICT for Sustainable Socio-Economic & Political Development of India "** Paper presented in "International Seminar on Economic and Political Basis of Inter Regional Disparity: India and Canada "India, March 17th -18th 2011, (Organized by Centre for Canadian Studies Development Programme, Himachal Pradesh University, Shimla)
16. **Jawahar Thakur** (2011). **"Applications, Design and technology Challenges in the Wi-Fi Networks"** Paper presented in "UGC Sponsored National Seminar on Wi-Fi Networks", 2nd to 3rd March 2011, (Organized by PG Department of Computer Science, Khalsa College for Women, Amritsar, INDIA
17. **Jawahar Thakur, Pratiyush & Rajnder** (2011). **"Cloud Computing: Resizable Computing Power"** full paper published in the proceedings of International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies" (ICICIT-2011),

- India, 2-3 September 2011, (Organized by Department of Computer Science and Engineering, KIET, Ghaziabad, UP).
18. Nagesh, **Jawahar Thakur** & Arvind Kalia (2011), **"Performance Analysis of Symmetric Key Cryptography Algorithm: DES, AES & BLOWFISH"** A Full paper published and presented in the National Conference on Recent Trends in Information Technology and its Applications in Industry" India, 25-26 September 2011, (Organized by PG Department of Computer Science and IT , Bhaderwah Campus of Jammu University).
 19. Nayan, **Jawahar Thakur** & Arvind Kalia (2011), **"Management of Handover in Universal Mobile Technology System"** A Full paper published and presented in the National Conference on Recent Trends in Information Technology and its Applications in Industry" India, 25-26 September 2011, (Organized by PG Department of Computer Science and IT, Bhaderwah Campus of Jammu University).
 20. Parul sharma , Arvind kalia and **Jawahar Thakur** (2012) **"Performance Analysis of AODV, DSR and DSDV Routing Protocols in Mobile Ad-hoc Network (MANET)"** a paper presented in the 2nd International Conference on Next Generation Communication and Computing Systems (ICNGC2S-11), (organized by Institute of Engineers Technocrats and Academicians Networks IETAN) on March 24-25, 2012, Chandigarh, INDIA.
 21. Workshop attended on Wireless Networks and Network Simulator (WNNS-2012) on 9th to 10th July, 2012 organized by Department of computer Science and Engineering, Jaypee University of Information Technology, Wakanaghat, Solan, INDIA.
 22. Neeraj Sharma and **Jawahar Thakur** (2012) **" Routing Protocols used in VANET: A review"** a paper presented in the National Conference on Research & Development in Computational & Information Technology (NCRDCIT'12) organized by Department of Information Technology, SRM University, in association with Defense research & Development organization (DRDO) Ministry of Defense, Govt. of India on 7th & 8th September, 2012.
 23. **Thakur Jawahar**, Kalia Arvind and Awasthi Lalit (2015) **"Check pointing based Rollback Recovery Techniques in Wireless Ad-hoc Networks"** Paper presented in

International Conference organized by (CMAI) and in academic participation with HELP University of Malaysia in Kulalalumpur on January 23-26 2015, Kullalumpur, Malaysia.

24. **Thakur Jawahar**, Kalia Arvind and Awasthi Lalit (2015) **"coordinated checkpointing in wireless ad-hoc network"** Paper presented in the IEEE, International conference on image and information processing (ICIIP-15), organized by JPUIT, wakanaghat, Shimla, on 21th December 2015-to 24th December 2015, INDIA.
25. **Thakur Jawahar**, (2017)" **from the Internet of Computers to the Internet of Things**" Paper presented in the CMAI 4th International Conference on Sustainable Development: weaving Innovations in Business and Commerce" in Academic Partnership with Lyceum of The Philippines University, Manila on 2nd to 4th February 2017, Manila, PHILIPPINES.
26. **Thakur Jawahar (2018)" Security Issues and Challenges in Wireless Sensor networks"** paper presented in the 5th CMAI International Conference on "Building Sustainable Business Excellence: Re imagining the future" in Academic partnership with PEGASUS INTERNATIONAL COLLEGE DANAG, from 25th -27th January 2018, VIETNAM.
27. **Thakur Jawahar (2019) "A simulated study of AODV and DSR routing Protocols for Wireless Sensor Network"** paper presented in the 6th International Conference on "Innovative strategies for revolutionizing the business" in academic partnership with SRTC, University sains Malaysia (USM), penang," Malaysia from 28th January to 30th January 2019, MALAYASIA.
28. Attended the one-day National seminar on **"Future India: through Science and Technology"** organized by ISCA, Indian Science Congress Association Shimla Chapter in association with H. P. University, Shimla on 22nd May 2019.
29. Attended and participated in National Conference on **"C0-Creating Harmony Through Research And spirituality (SIR-13)"** organized by spiritual applications research centre (sparc) wing of Rajyoga education and research foundations, Mount Abu, Rajasthan from 13th September 019 to 17th September 2019, INDIA.
30. **Thakur Jawahar (2020) "A Blockchain Technology**

Aechitecture: Challenges and Future Trends" paper presented in the 7th International Conference on "Management Innovations for Business Sustainability " in academic partnership with National Kaohsiung University of Science and Technology (NKUST) & National Kaohsiung University of Hospitality and Tourism (NKUHT), Kaohsiung, Taiwan from 17th January to 19th January 2020, TAIWAN.

31. **Thakur Jawahar** and Jagdish (2020) "**BotEye: Botnet Detection Technique Via Traffic Flow Analysis Using Machine Learning Classifiers**" In Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC) organized by Department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology, Solan, Himachal Pradesh, during 06-08 November, 2020, INDIA.
32. **Thakur Jawahar** and Palak (2021) "**DELIVING INTO VYPER: A SECURITY ORIENTED LANGUAGE FOR SMART CONTRACT DEVELOPMENT**" participated and presented paper In the Online International Conference on "Intelligent Systems, Electrical and Communication Technology-2021" (ICISECT-2021) Organized by Departments of ECE, EEE, CSE & IT St. Martin's Engineering College, Dhulapally, Secunderabad, T.S, India on 9th & 10th April 2021, INDIA.
33. **Thakur Jawahar** and Palak (2021) "**BLOCKCHAIN TECHNOLOGY FOR CURBING INPUT TAX CREDIT FRAUD IN INDIA**" participated and presented paper In the Online International Conference on "Intelligent Systems, Electrical and Communication Technology-2021" (ICISECT-2021) Organized by Departments of ECE, EEE, CSE & IT St. Martin's Engineering College, Dhulapally, Secunderabad, T.S, India on 9th & 10th April 2021, INDIA.
- 34.

10. Research Publications:

1. **Jawahar Thakur**, Chander Shakher and Rajesh Kumar "**Energy- Efficient Time Synchronization in Wireless Sensor Network**" Proceeding of IEEE-MTTS 1st International Conference on Advance in Computing and Communication (ICAAC-2011), India, April 08-10, 2011,

- (Organized by National Institute of Technology, Hamirpur)
2. Rajesh Lavania, **Jawahar Thakur** & Manu Pratap Singh (2011). "**Performance Analysis of Gradient Descent with Momentum & Adaptive Back Propagation and BFGS Quasi-Network Back Propagation of Multilayer Feed Forward Neural Networks for Hand Written Characters of SWARS**" Full paper Published in Proceeding of "National Conference on Next generation Computing & Information Security (Emerging Trends for Future Challenges), (NCNGCIS-2011), India, March 25th -26th 2011, (Organized by Department of Information Technology, IMS.NOIDA).
 3. Arvind Kalia & **Jawahar Thakur** (2011). "**Green Computing: Emerging Trends in Information & Communication Technology**" Full Paper Published in the Proceeding of "UGC Sponsored National Conference on Emerging Trends in Computing and Information Technology, (ETCIT-2011), India, 5th March, 2011, (Organized by P.G. Department of Computer Science & Information Technology, GGS Khalsa College, Punjab.
 4. **Jawahar Thakur** (2011) "**Role of ICT for Sustainable Socio-Economic & Political Development of India**" Paper presented in "International Seminar on Economic and Political Basis of Inter Regional Disparity: India and Canada "India, March 17th -18th 2011, (Organized by Centre for Canadian Studies Development Programme, Himachal Pradesh University, Shimla)
 5. **Jawahar Thakur**, Pratiyush & Rajnder (2011). "**Cloud Computing: Resizable Computing Power**" full paper published in the proceedings of International Conference on Issues and Challenges in Networking, Intelligence and Computing Technologies" (ICICIT-2011), India, 2-3 September 2011, (Organized by Department of Computer Science and Engineering, KIET, Ghaziabad, UP).
 6. Nagesh, **Jawahar Thakur** & Arvind Kalia (2011), "**Performance Analysis of Symmetric Key Cryptography Algorithm: DES, AES & BLOWFISH**" A Full paper published in the Peer Reviewed & Referred Journal "Research Cell: An International Journal of Engineering Sciences" special Issues September 2011, Volume-4, Page 28-37.
 7. Nayan, **Jawahar Thakur** & Arvind Kalia (2011), "**Management of Handover in Universal Mobile Technology**"

- System"** A Full paper published in the Peer Reviewed & Referred Journal "Research Cell: An International Journal of Engineering Sciences" special Issues September 2011, Volume-4, Page 151-159.
8. **Jawahar Thakur** (2011), **"Network Security: History, Importance and Security"** a full paper submitted in Himachal Pradesh University Journal issue December 2011. ISSN 2277-1425(Print), 2277-1433(Online)
 9. **Jawahar Thakur** & Nagesh Kumar (2011), **"DES, AES and Blowfish: Symmetric Key Cryptography Algorithms Simulation Based Performance Analysis"** A Full paper published in the Peer Reviewed, Indexed & Referred "International Journal of Emerging Technology & Advanced Engineering", ISSN 2250-2459 December 2011.
 10. Parul sharma, Arvind kalia and **Jawahar Thakur** (2012) **"Performance Analysis of AODV, DSR and DSDV Routing Protocols in Mobile Ad-hoc Network (MANET)"** a full paper published in the Journal of Information systems and Communication ISSN: 0976-8742 & e-ISSN: 0976-8750, Volume 3, Issue, 2012, pp, -322-326. **Having Impact Factor value 4.57**
 11. Priyanka Rahi, **Jawahar Thakur** (2012)" **Business Intelligence: A Rapidly Growing Option through Web Mining"** a full paper published in the IOSR Journal of Computer Engineering (IOSRJCE) ISSN: 2278-0661, ISBN: 2278-8727 Volume 6, Issue 1, PP 22-29. Sep-Oct. 2012.
 12. Sanyoghtya, **Jawahar Thakur** (2012) **"Comparison of Load Balancing Algorithms in Cloud Computing"** a full paper published in the International journal of Computer Science & Technology (IJCST)-Vol III Issue IV, Ver. 2, ISSN: 0976-8491(Online) ISSN:2229-4333(Print) With **Impact Factor 5.09**. December, 2012.
 13. Neeraj Kumar, **Jawahar Thakur** (2013) **"Performance analysis of AODV & GPSR Routing Protocol in VANET"** a full paper published in the International Journal of Computer Science & Engineering Technology (IJCSET) Vol. No. 4, ISSN: 2229-3345 (Online). Feb 2013.
 14. Susheel Thakur, Arvind kalia, **Jawahar Thakur** (2013) **"Server Consolidation Algorithms for Cloud Computing Environment: A Review"** a full paper published in the International journal of advanced research in computer Science and Software Engineering (IJARCSSE) Vol. No. 3,

- Issue 9, September 2013, ISSN: 2277128X(Online).
15. Vikash Kumar, **Jawahar Thakur** (2013) **"Multi-Channel Mac Protocols in Wireless Sensor Networks: A Review"** a full paper published in International journal of advanced research in computer Science and Software Engineering (IJARCSSE) Vol. No. 3, Issue 10, ISSN: 2277128X(Online)., October 2013.
 16. Priyanka Bansal, **Jawahar Thakur** (2013) **"Performance Evaluation of DSR, AODV and CGSR based on average energy consumption: A Review"** a full paper published in Journal of Computer technology & applications (JoCTA), 2013, 21-27 © STM Journals 2013. ISSN: 2229-6964(online), 2013.
 17. Ankit Sharma, **Jawahar Thakur** (2013) **"An energy efficient network life time enhancement proposed clustering algorithm for Wireless Sensor Networks"** a full paper published in International Journal of Enhanced Research in Management & Computer Applications, ISSN: 2319-7471 Vol. 2 Issue 7, July-2013, (online).
 18. Thakur Susheel, Kalia Arvind and **Thakur Jawahar** (2014) **"Performance Analysis of Server Consolidation Algorithms in Virtualized Cloud Environment with Idle VMs"**, International Journal of Advanced Research in Computer Science and Management Studies, vol 2, issue 3, ISSN: 2321-7782. March 2014.
 19. Thakur Susheel, Kalia Arvind and **Thakur Jawahar** (2014) **"Performance Evaluation of Server Consolidation Algorithms in virtualized Cloud Environment with Constant Load"**, International Journal of Advance Research in Computer Science and Software Engineering, vol 4, issue 3, ISSN:2277 128. March 2014.
 20. Thakur Susheel, Kalia Arvind and **Thakur Jawahar** (2014) **"Server Consolidation Algorithms for Virtualized Cloud Environment with variable workloads: A Performance Evaluation"**, International Journal of Advance Research in Computer Science, vol 5, issue 3, ISSN: 0976-5697. March-April 2014.
 21. Thakur Susheel, Kalia Arvind and **Thakur Jawahar** (2014) **"A Study on Energy Efficient Server Consolidation Heuristics for Virtualized Cloud Environment"**, International Journal of Advanced Research in Computer

Engineering and Technology, vol 3, issue 4, ISSN: 2278-1323, April 2014

22. Sharma Kunal, Thakur Susheel, Kalia Arvind, **Thakur Jawahar** and Kumar Sunil (2014) "**Emerging Cloud Computing Paradigm: Vision, Research Challenges and Development Trends**", International Journal of Research in Engineering and Technology, Vol 3, issue 5, ISSN: 2321-7308, May 2014.
23. Katoch Swati and **Thakur Jawahar** (2014) "**Load balancing Algorithm in Cloud Computing Environment: A Review**" International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169, 2151 - 2156 Volume: 2 Issue: 8, August 2014.
24. Chauhan Divya and **Thakur Jawahar** (2014) "**Data Mining Techniques for Weather Prediction: A Review**" International Journal on Recent and Innovation Trends in Computing and Communication ISSN: 2321-8169, 2151 - 2156 Volume: 2 Issue: 8, August 2014.
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45. Jagdish Yadav and **Jawahar Thakur** (2020) "**Botnet: Evolution, Life Cycle, Architecture and Detection Techniques**" Peer Reviewed International Mukat Shabad Journals, UGC CARE I Journal Impact Factor 4.6, ISSN NO : 2347-3150, Volume IX, Issue VI, JUNE 2020.
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13. Books/Book Chapters:

- B1 **Thakur Jawahar**, "wireless sensor network: An energy efficient approach" LAP Germany August 2011.
- B2 **Jawahar Thakur**, Pawan Thakur and Susheela Pathania, "Internet of Things and Artificial Intelligence" Satya Prakashan, New Delhi, INDIA 2020.
- BC1 Deepak Kumar and **Jawahar Thakur** "Software defined networks: Need of emerging networks and Technologies part of the Lecture Notes in Networks and System books series (LNNS, Volume 116) published online 9th April 2020 Springer Link Publisher.

14. Expert Talks:

15. Research Projects:

- ◆ Co-investigator for a project on "Strengthening of ICT infrastructure in Examination System and Networking of Himachal Pradesh University, Shimla" Sponsored by Ministry of Electronic & Information technology, Govt. of India 2021.
- ◆ Co-Investigator "Green Computing for Optimal Utilization of Electronic Resources with Special Reference to Cloud Computing in Higher Education System - A Study of Himachal Pradesh University and its Affiliated Colleges" Submitted to UGC.
- ◆ Co-investigator "Longitudinal Ageing Survey of India (LASI) "submitted to the International Institute for Population Sciences IIPS, Mumbai, India.
- ◆ Co-investigator "Causative Analysis for better Dispersion of Skilled Health professionals in rural and Remote Areas" HRH retention Study: submitted to

the Ministry of health and Family welfare govt. of India.

16. Additional Information's:

- Google scholar citations indices is 531 all, h-index is 7 and i-index is 7 till date 01/09/2021.
- Written Lessons for MCA, BCA, B.Com, PGDCA, APGDIT, for international Centre for Distance Education Open Learning H. P. University.
- Guided more than 150 software development projects at Master in Computer Applications (MCA) level.
- Guided more than 150 software development projects at Post Graduate Diploma in Computer Application PGDCA) level.

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