

# 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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[jawahar.thakur@hpuniv.ac.in](mailto:jawahar.thakur@hpuniv.ac.in)  
**Home:** <http://www.hpucs.ac.in>  
**Nationality** Indian  
**Date of Birth** 24<sup>th</sup> February, 1972  
**Permanent Address** Village Manjhloo, Post Office  
Karyas, Tehsil, Pangi, District,  
Chamba, Himachal Pradesh-1716323

## 2. Educational Qualifications:

<b>Qualifications</b>	<b>Board/University</b>	<b>Year</b>
Ph.D. Computer Science	Himachal Pradesh University, Shimla	2016

<i>M. Tech.(CS&amp;E)</i>	<i>NITTTTR-Chandigarh, Punjab University, CHD</i>	<i>2010</i>
<i>B. Tech.(CS&amp;E)</i>	<i>NIT- Hamirpur ( Formerly REC Hamirpur)</i>	<i>1996</i>
<i>10+2 (Non-Medical)</i>	<i>H.P. Board of Education Dharamshala</i>	<i>1990</i>
<i>10<sup>th</sup></i>	<i>H.P. Board of Education Dharamshala</i>	<i>1987</i>

### 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:

<b>S. No.</b>	<b>Degree</b>	<b>Number Enrolled</b>	<b>Thesis submitted</b>	<b>Degree Awarded</b>
1	(M. Tech Thesis)	3	-----	22
2	Ph.D or Equivalent	8	-----	

### 5. Teaching and Research Experiences:22+ 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 **Lecturer (Selection Grade)**  
Department of Computer Science  
Himachal Pradesh University,  
Shimla

June 2003 to June 2008 **Lecturer (Senior Scale)**  
Department of Computer Science

Himachal Pradesh University,  
Shimla

June 1997 to June 2003 **Lecturer**  
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 30<sup>th</sup> 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.

### 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 6<sup>th</sup> Semester Project (Year 2016)
- **Coordinator,** MCA 6<sup>th</sup> Semester Project (Year 2019)
- **Coordinator,** Departmental NAAC activities from October 2019 to till date.

## 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, Bharderwah Campus of Jammu University).
- **Resource Person** in **National Seminar on "Web Based Technologies: Present & the Future"** India, April 30-May 1<sup>st</sup> 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 1<sup>st</sup> 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 Mahavidalaya, 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 unreached**

*through Science and Technology*” March 30<sup>th</sup> to 31<sup>st</sup> 2018, organized by Indian Science congress Association Shimla chapter, Himachal Pradesh University, Shimla, India.

- **Chaired** the technical Session in *“Reaching the unreached through Science and Technology”* March 30<sup>th</sup> to 31<sup>st</sup> 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 4<sup>th</sup> May to 26<sup>th</sup> May 2019.
- Organized and attended 6 days workshop on *“Quantum Computing”* sponsored by AICTE and DRDO organized by UIIT, H. P. University, Shimla from 2<sup>nd</sup> September 2019 to 6<sup>th</sup> 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 6<sup>th</sup> & 7<sup>th</sup> 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 1<sup>st</sup> April 2006 to 21<sup>st</sup> April 2006.
5. UGC Sponsored Refresher Course on **"Information Technology- Awareness"** Academic Staff College, Himachal Pradesh University, Shimla from 4<sup>th</sup> April 2008 to 24<sup>th</sup> April 2008.
6. AICTE sponsored Faculty development programme on '**Mobile Computing**' organized by Department of Computer Science and Engineering, NIT- Hamirpur from 22<sup>nd</sup> June 2009 to 26<sup>th</sup> 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 21<sup>st</sup> December 2009 to 25<sup>th</sup> December 2009.
8. One day workshop on '**National Mission on Education Through Information & Communication Technology (NMEICT)**' organized by Himachal Pradesh University, Shimla on 26<sup>th</sup> 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 29<sup>th</sup> 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 16<sup>th</sup> March to 18<sup>th</sup> March 2010.
11. **Jawahar Thakur**, Chander Shakher and Rajesh Kumar



- “Energy- Efficient Data Aggregation in Cluster-Based Wireless Sensor Networks”*** Proceeding of IEEE-MTTs 1<sup>st</sup> 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 1<sup>st</sup> 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 25<sup>th</sup> -26<sup>th</sup> 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, 5<sup>th</sup> 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 17<sup>th</sup> -18<sup>th</sup> 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", 2<sup>nd</sup> to 3<sup>rd</sup> 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 2<sup>nd</sup> 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 9<sup>th</sup> to 10<sup>th</sup> 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 7<sup>th</sup> & 8<sup>th</sup> 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 24<sup>th</sup> December 2015, INDIA.
  25. **Thakur Jawahar**, (2017)” ***from the Internet of Computers to the Internet of Things***” Paper presented in the CMAI

- 4<sup>th</sup> International Conference on Sustainable Development: weaving Innovations in Business and Commerce" in Academic Partnership with Lyceum of The Philippines University, Manila on 2<sup>nd</sup> to 4<sup>th</sup> February 2017, Manila, PHILIPPINES.
26. **Thakur Jawahar (2018)" Security Issues and Challenges in Wireless Sensor networks"** paper presented in the 5<sup>th</sup> CMAI International Conference on "Building Sustainable Business Excellence: Re imagining the future" in Academic partnership with PEGASUS INTERNATIONAL COLLEGE DANAG, from 25<sup>th</sup> -27<sup>th</sup> 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 22<sup>nd</sup> 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 13<sup>th</sup> September 019 to 17<sup>th</sup> September 2019, INDIA.

## 10. Research Publications:

1. **Jawahar Thakur, Chander Shakher and Rajesh Kumar "Energy- Efficient Time Synchronization in Wireless Sensor Network"** Proceeding of IEEE-MTTS 1<sup>st</sup>

- 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 25<sup>th</sup> -26<sup>th</sup> 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, 5<sup>th</sup> 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 17<sup>th</sup> -18<sup>th</sup> 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.
  25. Chauhan Divya and **Thakur Jawahar** (2014) "**Boosting Decision tree Algorithm for Weather Prediction**" Journal of Advanced Database Management & systems (JoADMS) STM Journals ISSN: 2393-8730(online) Vol. 1 Issue 3, 2014.
  26. Sushant Patial and **Jawahar Thakur** (2014) "**Fault Tolerance with Checkpointing and Rollback Recovery in MANETs: A Review**" International Journal of Advance networking and applications Volume: 6 Issue: 3 Pages: 2308-2313, ISSN: 0975-0290. 2014.
  27. Katoch Swati and **Thakur Jawahar** (2015) "**Quantitative Analysis of Static Load Balancing Algorithms in Cloud Computing Environment**" Current Trends in Information Technology STM Journals ISSN: 2249-4707(online), ISSN: 2348-7895(print) Volume 5, Issue 1, 2015.
  28. **Jawahar Thakur**, Arvind Kalia and Lalit K. Awasthi (2015) "**Checkpointing and Roll back Recovery Protocols in Wireless Ad hoc Networks: A Review**" International Journal of Next-Generation Computing (IJNGC) Vol. 6, No. 1, March 2015.
  29. **Thakur Jawahar**, Kalia Arvind and Awasthi Lalit (2015) "**Coordinated checkpointing in wireless ad-hoc network**" in proceeding of the IEEE, International conference on

- image and information processing (ICIIP-15), organized by JPUIT, wakanaghat, Shimla, on 21th December 2015-to 24<sup>th</sup> December 2015, INDIA.
30. Rekha Rao, and **Jawahar Thakur** (2015) ***'coordinated checkpointing algorithms: A comparative analysis'*** Current Trends in Information Technology STM Journals ISSN: 2249-4707(online), ISSN: 2348-7895(print) Volume 5, Issue 3, pp-14-20, 2015.
  31. Mukesh Chuhan and **Jawahar Thakur** (2016) ***"Rapid Revision Software Deleopment Life Cycle Model (RR-SDLC Model 2016) Based on concept of Reusability of Software"*** International Journal of Advanced research in Computer and Communication Engineering (IJARCCE), volume 5, issue 4, April 2016.
  32. **Thakur Jawahar**, Kalia Arvind and Awasthi Lalit (2016) ***"Asynchronous Checkpointing Algorithms for Wireless Ad-hoc Network: A Simulated Analysis"*** International Journal of Advanced research in Computer and Communication Engineering (IJARCCE), volume 5, Issue 4, April 2016.
  33. Mukesh Chauhan and **Jawahar Thakur** (2016) ***"Cost and delivery optimization using Rapid revision Software Development life Cycle (RR-SDLC March 2016)"*** International Journal of Engineering Research & technology (IJERT), Volume 5, Issue 5, May 2016.
  34. Shalini and **Jawahar Thakur** (2017) ***"Web Performance Testing Tools: A Review"*** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5, Issue X, October 2017.
  35. Kumari Sarita and **Jawahar Thakur** (2017) ***"Data Centric Security Algorithms in Cloud Computing: A Review"*** International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 5, Issue X, October 2017.

36. Shalini and **Jawahar Thakur** (2017) "**A comparative analysis of web performance testing tools: NEOLoad, LoadImpact & LoadStorm**" International Journal for science and advance Research in technology (IJSART), Volume 3, Issue 11, November 2017.
37. Kumari Sarita and **Jawahar Thakur** (2017) "**simulation-based performance of symmetric key algorithms: DES, 3DES, AES and Blowfish**" International Journal for science and advance Research in technology (IJSART), Volume 10, Issue Y, December 2017.
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### 13. Additional Information's:

- Google scholar citations indices is 356 all, h-index is 7 and i-index is 6 till date 21/09/2019.
- 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.
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