

## Faculty Profile



**Name: Dr. Oshin Sharma**

**Designation: Associate Professor**

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### Education Details:

BE	Chitkara University Himachal Pradesh	2012	CSE
Integrated ME	Chitkara University Himachal Pradesh	2013	CSE
Ph.D	Jaypee University of Information & Technology	2018	Cloud Computing

**Area of Research:** Cloud Computing, Fog Computing, Internet of things

Details of Publications: Published more than 20 research papers in various Journals, Conferences and Book chapters and one patent.

### LIST OF PUBLICATIONS (Journals )

- 1.Oshin Sharma, Hemraj Saini, “State of Art for Energy Efficient Resource Allocation for Green Cloud Datacenters”, in International Journal of Control Theory and Application. Vol.9, No.11, pp.5271-5280. 2016. (SCOPUS)
- 2.Oshin Sharma, Hemraj Saini, “Energy Efficient Virtual machine consolidation for cloud data centers using Analytic hierarchy process” in International Journal of Advanced Intelligence and Paradigms. vol.10, no. 4, pp. 401-422, 2018. (SCOPUS)
- 3.Oshin Sharma, Hemraj Saini, “Performance Evaluation of VM Placement Using Classical Bin Packing and Genetic Algorithm for Cloud Environment”, in International Journal of Business Data Communication and Networking (IJBDCN), Vol. 13(1). pp 45-57, 2017. (SCOPUS)
- 4.Oshin Sharma and Hemraj Saini. “SLA and Performance Efficient Heuristics for Virtual Machine Placement inside Cloud Data Centers”. In *International Journal of Grid and High- Performance computing (IJGHPC)*, vol. 9, no.3, pp. 17-33, 2017. (SCOPUS)
- 5.Oshin Sharma and Hemraj Saini, “Energy and SLA Efficient Virtual Machine Placement in Cloud Environment Using Non-Dominated Sorting Genetic Algorithm”, International Journal of Information Security and Privacy, vol. 13, no. 1, 2018. (SCOPUS)
- 6.Reeya Agrawal, Neetu Faujdar, Carlos Andres Tavera Romero, Oshin Sharma, Ghadia Muttashar Abdulsahib, Osama Ibrahim Khalaf, Romany F Mansoor, Osama A Ghoneim,” Classification and comparison of ad hoc networks: A review”, Egyptian Informatics Journal, Vol 12, No. 1, 2022 (SCI)

7. Oshin Sharma, Geetanjali Rathee, Chaker Abdelaziz Kerrache, Jorge Herrera-Tapia, "Two-Stage Optimal Task Scheduling for Smart Home Environment Using Fog Computing Infrastructures", *Applied Sciences*, Vol. 13, No. 5, 2939, 2023. (SCI)
8. Reeya Agrawal, Oshin Sharma, Nojood O Aljehane, Romany F Mansour, "Soft Computing: Goals, importance, and various Problem-Solving techniques", *Journal of Integrated SCIENCE & TECHNOLOGY*, Vol. 11, No. 3, 2023. (SCOPUS)
9. Oshin sharma, Sushil Kumar Bansal, "Human Identification by Gait Using Model Base Approach", *IJCST* Vol. 4, Issue 1, Jan - March 2013.
10. Oshin sharma, Sushil Kumar Bansal, "Gait Recognition System for Human Identification Using BPNN Classifier", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)* ISSN: 2278-3075, Volume-3, Issue-1, June 2013.
11. Bindu P S, Rahul S C, Puneeth V K, Savitha V, Oshin S, Anusha S, "Spam and Spammer Classification for Tweets using Sentiment, Similarity Measure and Classifier", *IJSART*, Vol 4, No. 5, 2018.
12. Nikhil U, Nikhil C, Akash J, Oshin S, "Air Traffic Forecasting", *International Journal of Current Research*, Vol 10, No. 4, 2018.
13. Oshin Sharma, "Intelligent Transportation System with Construction and Applications", *European Chemical Bulletin*, 12,4,2023-08-14

#### **LIST OF PUBLICATIONS ( Conference)**

1. Oshin Sharma, Hemraj Saini, "Experimental Analysis of Energy Management Techniques for Mobile Devices Using Cloud Computing", in *IEEE international conference on green computing ICGCIOT 2015*. (IEEE Explorer)
2. Oshin Sharma, Hemraj Saini, "VM Consolidation for Cloud Data Center Using Median Based Threshold Approach", In *Twelfth International Conference on Communication Networks (ICCN-2016)*. Vol.89, pp.27-33. (Elsevier Procedia- Best Presentation Award)
3. G Shrivanya, NH Swati, Ram P Rustagi, Oshin Sharma, "Securing Distributed SDN controller Network from Induced DoS Attacks", *IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)*, pp. 9-16, 2019.
4. Saiteja Ityala, Oshin Sharma, Prasad B Honnavalli, "Transparent Watermarking QR Code Authentication for Mobile Banking Applications", *International Conference on Inventive Computation Technologies*, Springer, pp. 738-748, 2019
5. Manasvi Narayan, Shreyash Chaudhary, Oshin Sharma, "Social and Mental Well-Being-COVID-19 After Effects Survey and Data Analysis" *5th International Conference on Communications and Cyber-Physical Engineering (ICCCE 2022)*, Springer, Hyderabad, India, 755-765, 2023
6. Nidhi Pandey, Oshin Sharma, "Emotion Recognition Classification Using an EEG- based Brain Computer Interface System based on Different Machine Learning Models", *International Conference on Innovative Sustainable Computational Technologies (CISCT) IEEE*, 2023.

#### **LIST OF PUBLICATIONS ( Book Chapter)**

1. Oshin Sharma and Hemraj Saini. "Performance Evaluation of Energy Aware Virtual Machine Placement Techniques for Cloud Environment". In *Advances in Data Communication and Networking for Digital Business Transformation*, ch.3, pp 45-72, 2018.
2. Oshin Sharma, S Anusha, "Large-Scale Data Streaming in Fog Computing and Its Applications", *Large-Scale Data Streaming, Processing, and Blockchain Security*, pp. 50-65, 2021.

3. Oshin Sharma, Hemraj Saini, "Performance evaluation of VM placement using classical bin packing and genetic algorithm for cloud environment", pp. 1456-1470, 2021.
4. Oshin Sharma, Hemraj Saini, Geetanjali Rathee, "Energy-Efficient VM Placement Using Backpropagation Neural Network and Genetic Algorithm" in Machine Learning and Optimization Models for Optimization in Cloud, Taylor & Francis CRC , pp. 137-160, 2022
5. Oshin Sharma, Nidhi Pandey, "Machine Learning and Blockchain for Security Management in Banking System", in Computational Intelligence for Cybersecurity Management and Applications, CRC Press, pp. 65-81, 2023

## **Workshops/Seminars/FDPs: Attended more than 20 National and International FDP/ Workshop and seminars**

1. 3<sup>rd</sup> IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2014) December 11-13, 2014 Department of CSE & IT Jaypee University of Information and Technology Waknaghat, Solan, H.P.
2. IEEE International Conference on Green Computing and Internet of Things (ICGCIOT-2015) Oct 8-10, 2015, GALGOTIAS University Greater Noida, Delhi.
3. 3<sup>rd</sup> IEEE International Conference on Image Information and Processing (ICIIP-2015) December 21-24, 2015 Department of CSE & IT Jaypee University of Information and Technology Waknaghat, Solan, H.P.
4. 3<sup>rd</sup> International Conference on computing Sciences (ICCS) April 7-8, 2016 Lovely Professional University, Jalandhar, Phagwara, Punjab, India.
5. 12<sup>th</sup> International Multi-Conference on Information Processing (IMCIP-2016), August 19<sup>th</sup>- 21, 2016. Organized by University Visvesvaraya College of Engineering, department of computer science and Engineering, Bangalore University, Bangalore.
6. 4<sup>th</sup> International Conference on Parallel, Distributed and Grid Computing (PDGC-2014) December 22-24, 2016 Department of CSE & IT Jaypee University of Information and Technology Waknaghat, H.P.
7. 2<sup>nd</sup> International Conference on Computers and Management (ICCM) December 28-29, 2016 Department of Computer Science and Engineering Rajasthan Technical University, Kota, Rajasthan.
8. Workshop on Lyx and Tex (Latex) for thesis and paper writing, 25 Nov 2015, Department of Electronics and Communication, Jaypee University of Information and Technology, Waknaghat, Solan, H.P.
9. International Research Workshop on Cloud Computing RWCC-2015 December 22-23, 2015 organized by school of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi
10. Workshop on Intellectual Property Rights (IPR) organized by Jaypee University of Information Technology, 8 December 2016.
11. ATAL FDP on Cloud Forensics: Techniques, challenges and research directions organized by NIT Sikkim from 18 Oct- 22 Oct 2021.
12. ATAL FDP on Recent Trends in Artificial Intelligence organized by Lakshmi Narain College of Technology from 29 Nov- 3 Dec 2021.
13. ATAL FDP on IOT Applications organized by NITTR Bhopal from 6 Dec- 10 Dec 2021.
14. ATAL FDP on Data Science organized by IIIT Pune from 20 Dec 2021 – 24 Dec 2021.
15. AICTE FDP on Human Values organized by HUV AICTE from 3 Jan 2022- 7 Jan 2022.1
16. FDP on Internet of Things organized by CSE Department, Jain University, Bangalore, February 2018.
17. FDP on Cloud Computing, organized by CSE Department, JUIT Waknaghat, December, 2015.

18. Awareness Workshop on cybersecurity engineering in academics, March 23, 2019 organized by Department of CSE, RV college of Engineering, Bangalore.
19. Workshop on Application of Multi-criteria Decision Making in Research, 27 March 2023 – 1<sup>st</sup> April 2023, organized by Faculty of Management Studies , SRMIST Delhi –NCR Campus, Ghaziabad.

### **Work Experience: 7 Years**

Assistant Professor	HIET, Himachal Pradesh	2013-2014
Teaching Assistant	Jaypee University of Information Technology	2014-2017
Assistant Professor	Jain University Bangalore	2018 (one Semester)
Assistant Professor	PES University Bangalore	2018-2019
Assistant Professor	SRMIST , Delhi NCR	2021-31May 2023
Associate Professor	SRMIST, Delhi-NCR	1 June 2023-Present

### **Professional Memberships:**

1. ISTE: Indian Society For Technical Education,
2. CSTA : Computer Science Teachers Association
3. IAENG: International Association of Engineers