Curriculum Vitae

Dr.(Mrs.) AMANDEEP VERMA
Assistant Professor, Information Technology
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QUALIFICATION:

- Ph.D in Computer Sc, & Engg. From **Panjab University**, Chandigarh, India in September, 2016.
- M.Tech (Computer Sc. & Engg.) with 81% (**Distinction**) from **Panjabi University**, Patiala, India in May 2004.
- B.Tech (Computer Sc. & Engg.) from **G.Z.S.C.E.T,** Bathinda, affiliated to Punjab Technical University, Jalandhar, India in May, 2002.

EXPERIENCE: (Total Experience – 15 years)

- Presently working as Assistant Professor in Information Technology w.e.f 3.7.2006 in University Institute of Engg. & Technology, Panjab University, Chandigarh, India

SUBJECTS TAUGHT:

Operating System, Cloud Computing, Network Security & Cryptography, Data Structures, System Programming, Object Oriented Programming

RESEARCH INTEREST:

Information Security, Cloud Computing, Mobile Cloud Computing, Fog Computing, IoT, Machine Learning

RESEARCH INTERACTION and OTHERS

- Invited talks (04) at Faculty Development programmes organized by NITTTR Chandigarh

- Organized 2-days Symposium on "Emerging Trends in Telecommunication and IT", in Nov.,2014 and Nov., 2016

- Member of various departmental committees like Board of Control, Academic/ Administrative/ Technical Committee/ Brand Promotion/Magazine, etc.

PUBLICATIONS :

International Journals : **11**

Book Chapters : **07**

Conferences : **International: 25, National: 6 (till date)**

Referred International Journals

1. Amandeep Verma, Sakshi Kaushal, A Hybrid Multi-Objective Particle Swarm Optimization Algorithm for Scientific Workflow Scheduling in IaaS Cloud, *Parallel Computing, Elsevier*, Vo. 62, pp: 1-19, 2017 **SCI Indexed (Impact Factor 2.019)**

2. Amandeep verma, Sakshi Kaushal, Cost-Time Efficient Scheduling Plan for Executing Workflows in the Cloud, *Journal of Grid Computing, Springer*, pp 495-506, 2015 **(SCI Indexed, Impact Factor-2.766)**

3. Lokesh Kumar, Amandeep Verma, "Child based Level-Wise List Scheduling Algorithm", International Journal of Modern Education and Computer Science, Vol. 9, Issue 9, pp 24, 2017

4. Amandeep Verma, Sakshi Kaushal, Cost Minimized PSO based Workflow Scheduling Plan for Cloud Computing, *International Journal of Information Technology and Computer Science*, vol. 7, no. 8, pp. 37-43, 2015.

5. Rohit Thaper, Amandeep Verma, A survey on Economic Denial of Sustainability attack mitigation techniques, *International journal of Innovative Research in Computer and Communication Engg.,* vol. 3, no. 3, 2312-2316, 2015.

6. Rohit Thaper, Amandeep Verma, Enhanced-Adaptive Pattern Attack Recognition Technique (E-APART) Against EDoS Attacks in Cloud Computing, *Journal of Cases on Information Technology*, vol. 17, no. 3, 41-55, 2015 **(Scopus Indexed)**

7. Pawan Kumar Thakur, Amandeep Verma, Process Batch Offloading Method for Mobile Cloud Computing Platform, *Journal of Cases on Information Technology,* vol. 17, no. 3, 56-64, 2015 **(Scopus Indexed)**

8. Amandeep Verma, Sakshi Kaushal, Deadline Constraint Heuristic based Genetic Algorithm for Workflow Scheduling in Cloud*, International Journal of Grid and Utility Computing*, vol. 5, no.2, 96 - 106, 2014 **(Scopus Indexed)**

9. Shaminder Kaur, Amandeep Verma, An Efficient Approach to Genetic Algorithm for Task Scheduling in Cloud Computing Environment, *Journal of Information Technology and Computer Science,* vol. 4, no. 10, 74-79, 2012.

10. Pardeep Kumar, Amandeep Verma, Independent Task Scheduling in Cloud Computing by Improved Genetic Algorithm, *International Journal of Advanced Research in Computer Science and Software Engineering*, vol. 2, no. 4, 11-114, 2012.

11. Raman Singh, Amandeep Verma, A Dynamic Bandwidth Assignment Approach Under DDoS Flood Attack, *Journal of Advances in Information Technology*, vol.3, no. 2, 121-129, 2012 **(Scopus Indexed)**

International/National Conferences (From 2012 onwards)

1. Megha Sharma, Amandeep Verma, " Energy-aware discrete symbiotic organism search optimization algorithm for task scheduling in a cloud environment", IEEE 4th International Conference on Signal Processing and Integrated Networks (SPIN), pp: 513-518, 2017

2. Pawan Kumar Thakur, Amandeep Verma, Review on Various Techniques of Energy Saving in Mobile Cloud Computing, Fifth International Conference on Advanced Computing & Communication Technologies, Haryana, February 6-8, 2015.

3. Pawan Kumar Thakur, Amandeep Verma, Hybrid process cost evaluation method in mobile code offloading, International Conference on Next Generation Computing Technologies, Dehradun, September 4-5, 2015

4. Rohit Thaper, Amandeep Verma, Adaptive Pattern Attack Recognition technique (APART) against EDoS attacks in Cloud Computing, Third International Conference on Image Information Processing (ICIIP), Waknaghat, December 21-24, 2015.

5. Amandeep Verma, Sakshi Kaushal, Bi-Criteria Priority based Particle Swarm Optimization workflow scheduling algorithm for cloud, Recent Advances in Engineering and Computational Sciences (RAECS), Panjab University, Chandigarh, March 6-8, 2014.

6. Amandeep Verma, Sakshi Kaushal, Budget Constrained Priority Based Genetic Algorithm for Workflow Scheduling in Cloud, IEEE Fifth International Conference on Advances in Recent Technologies in Communication and Computing (ARTCom 2013), Chandigarh, Sept. 20-21, pp. 216 - 222, 2013

7. Lokesh Kumar Arya, Amandeep Verma, Workflow scheduling algorithms in cloud environment-A survey, Recent Advances in Engineering and Computational Sciences (RAECS), Panjab University, Chandigarh, March 6-8, 2014.

8. Bharti Wadhwa, Amandeep Verma, Energy saving approaches for green cloud computing: A review, Recent Advances in Engineering and Computational Sciences (RAECS), Panjab University, Chandigarh, March 6-8, 2014.

9. Bharti Wadhwa, Amandeep Verma, Energy and carbon efficient VM placement and migration technique for green cloud datacenters, 7th IEEE International Conference on Contemporary Computing, Noida, August 7-8, 2014

10. Bharti Wadhwa, Amandeep Verma ,Carbon efficient VM placement and migration technique for green federated cloud datacenters, International Conference on Advances in Computing, Communications and Informatics, Delhi, September 24-27, 2014

11. Pardeep Kumar, Amandeep Verma, Scheduling using improved genetic algorithm in cloud computing for independent tasks, International Conference on Advances in Computing, Communications and Informatics, Chennai, August 3-5, 2012.

Book Chapters

1. Komal Middha, Amandeep Verma,"PEFT-Based Hybrid PSO for Scheduling Complex Applications in IoT", Smart Computational Strategies: Theoretical and Practical Aspects, Springer International Publishing, ISBN No. 978-981-13-6295-8, pp 273-286, 2019

2. Megha Sharma, Amandeep Verma, Arun Kumar, "Energy Constrained Workflow Scheduling in Cloud using E-DOS Algorithm", Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Appliations, Academia Press, Elsevier, pp 159-168, 2018

3. Chinu Singla, Sakshi Kaushal, Amandeep Verma, Harish Kumar, "A Hybrid Computational Intelligence Decision Making Model for Multimedia Cloud based Appliations", Computational Intelligence for Multimedia Big Data on the Cloud with Engineering Appliations, Academia Press, Elsevier, pp 147-156, 2018

4. Chinu Singla, Nitish Mahajan, Sakshi Kaushal, Amandeep Verma, Arun Kumar Sangaiah, " Modelling and Analysis of Multi-Objective Service Selection Scheme in IoT- Cloud Environment", Cognitive Computing for Big Data Systems Over IoT, Springer International Publishing, ISBN No. 978-3-319-70688-7, pp 63-77, 2018.

5. Amandeep Verma, Sakshi Kaushal, Arun Kumar Sangaiah, "Computational Intelligence Based Heuristic Approach for Maximizing Energy Efficiency in Internet of Things", Intelligent Decision Support Systems for Sustainable Computing, Springer International Publishing, ISBN No. 978-3-319-53153-3, pp 53-76, 2017.

6. Himanshu Sachdeva, Sakshi Kaushal, Amandeep Verma, "Enhanced Strategy to Minimize Makespan in Cloud Computing to Accelerate the   Performance",

Advances in Intelligent Systems and Computing, Springer International Publishing, ISBN No. 978-981-10-0133-8, pp. 179-191, 2016

7. Amandeep Verma, Sakshi Kaushal, "Cloud Computing Security Issues and Challenge", Communications in Computer and Information Science, Springer International Publishing, ISBN No. 978-3-642-22726-4, 2011.

RESEARCH GUIDANCE:

Ph.d   :   **02 (Pursuing)**

 M.E(IT)   :   **19 (Completed)**