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Teaching Experience:	20 YEARS
Area of Specialization:	Cyber Security, Machine Learning, Malware Analysis, Computer Networks, Mobile Ad-Hoc Networks, Cloud Computing.
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RESEARCH PAPERS PUBLISHED IN JOURNALS

- Jagsir Singh, **Jaswinder Singh (2020)**,” *Assesment of Supervised machine learning algorithms using dynamic API calls for malware Detection*, **International Journal of Computers and Applications** , **Taylor & Francis EI Compendex, Scopus Indexed Journal**, UGC Approved, [https://DOI:10.1080/1206212X.2020.1732641](https://doi.org/10.1080/1206212X.2020.1732641)
- Jagsir Singh, **Jaswinder Singh (2020)**, “*Detection of malicious software by analyzing the behavioral artifacts using machine learning algorithms*”, Information and Software Technology, Feb, 2020, **SCI, EI, Scopus, ACM Guide to Computing Literature, I.F. 2.92**. <https://doi.org/10.1016/j.infsof.2020.106273>
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2019), "MWC: An Efficient and Secure Multi Cloud Storage Approach to Leverage Augmentation of Multi Cloud Storage Services on Mobile Devices using Fog Computing", in **Journal of Super Computing**, Springer, **SCI Journal, I.F. 1.326**, vol. 75(6), DOI: 10.1007/s11227-018-2304-y, pp. 3264 – 3287.

- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2019), "*An Efficient and Secure Privacy Preserving Multi Cloud Storage Framework for Mobile Devices*", in **International Journal of Computers and Applications** , Taylor & Francis EI Compendex, **Scopus Indexed Journal**, Jan 2019, UGC Approved, <https://doi.org/10.1080/1206212X.2019.1572847>.
- Jagsir Singh, **Jaswinder Singh**, (2019), “ Ransomware: An Illustration of malicious Cryptography”, International Journal of Recent Technology and Engineering”, **UGC Care List, Scopus**, Vol: 8(2), pp no. 1608-1611.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2018), "*A Novel Approach for Multi Cloud Storage for Mobile Devices: Study and Analysis*", in **International Journal of Information Technology and Web Engineering**, **ESCI, Scopus Indexed**, UGC Approved, Vol 13 , issue 2, pp 24-36.
- Jagsir Singh, **Jaswinder Singh** (2018), “ Challenges of malware Analysis: Obfuscation Techniques”, International Journal Of Information Security , **UGC Care List**, Vol.7, (3) pp no. 100-110.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2017), "*Design and implementation of an efficient multi cloud storage approach for resource constrained mobile devices*", in **Cluster Computing** , **Springer SCIE Journal, I.F. 2.04**, November, 2017, UGC Approved, DOI: <https://doi.org/10.1007/s1058>, pp 1-15.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2017), "*Multi Cloud Storage Systems for Mobile Devices: Study and Analysis*", in **International Journal of Mobile Learning and Organisation**, **Inder Science Journal, 2017, Scopus Indexed**, UGC Approved, Vol. 12, No. 3, 2018, pp. 216-239.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2016), "*Analysis of Multi-Cloud Storage applications for resource-constrained mobile devices*", in **Perspectives in Science, Elsevier Journal**, UGC Approved, vol. 8, pp. 279-282.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta (2016), "*Comparison of Multi Cloud Storage Systems for Mobile Devices*", in **International Journal of Control Theory and Applications Scopus Indexed**, vol. 9(40), 2016, pp. 389-396.

- Navdeep kaur, **Jaswinder Singh(2016)**,“Network-based Attacks and its Correlation with Indian Cyber Laws”, International Journal of Computer Technology and Applications, vol 9, issue 17, pp 8693-8701.
- Jagroop Kaur **Jaswinder Singh (2015)**,“Toward Normalizing Romanized Gurumukhi Text from Social Media”, **Indian Journal of Science and Technology**,Vol 8, Issue 27, pp 1-6, 2015.

RESEARCH PAPERS PUBLISHED IN CONFERENCES

- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta, "*Current trends in Cloud Storage for resource constrained mobile devices*", in **IEEE International Conference on Wireless Communications Signal Processing and Networking** held at SSN college of engineering and technology, Chennai on dated March 23-25, 2016, ISSN 978-1-4673-9338-6/16, pp 1187-1192.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta, "*Valuable aspects of Cloud Storage*", in **14th International Conference on Cloud Computing Computer Science and Advances in Information Technology**, (ICCCIT 2016) organized by Technical Research Organization India, held at Lucknow on 10th January 2016, ISBN 978-93-85225-58-1 pp 1-9.
- Rajeev Kumar Bedi, **Jaswinder Singh**, Sunil Kumar Gupta, "*Multi Cloud Storage Systems for Resource Constrained Mobile Devices: Comparison and Analysis*", in **International Conference for Engineering and Technology**, held at University of Freiberg, Germany from 3 to 6 Dec, 2018.

RESEARCH GUIDANCE

Student completed Ph.D :03

Name	Date of Registration	Title
Rajiv Kumar Bedi	14-10-2016	A NOVEL APPROACH FOR MULTI CLOUD STORAGE FOR MOBILE DEVICES.
Jagsir Singh	16-08-2017	DEVELOPMENT OF MALWARE DETECTION USING MACHINE LEARNING APPROACH.

Jagroop Kaur	1-09-2016	DEVELOPMENT OF A TECHNIQUE FOR NORMALIZING CODE MIXED SOCIAL MEDIA TEXT FROM ROMAN TO GURMUKHI SCRIPT
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Students Pursuing Ph.D

Name	Date of Registration	Title
Jyoti Rani	22.11.2018	DEVELOPMENT OF A FRAMEWORK FOR CLASSIFICATION OF MANAGEMENT IMAGES USING DEEP LEARNING TECHNIQUES.
Amarvir Singh	1-09-2016	DEVELOPMENT OF AN ADAPTIVE RULE BASED ALGORITHM FOR HEALTH MONITORING USING INTERNET OF THINGS.
Apurva Sharma	05-06-2017	DEVELOPMENT OF AN ADAPTIVE LEARNING TECHNIQUE FOR RESOURCE ALLOCATION IN SELF ORGANIZING WIRELESS NETWORKS.

Students Enrolled in Ph.D: 02

International Student Completed M.Tech: 01

Name	Title
Ahmed Abdi	Designing Smart Campus Using Internet of Things

Students Completed M.tech

Name	Title
Chand Jain	Evaluation of Manet Routing Protocols Using OMNET++
Navpreet Kaur	Network-Based Attacks And Its Correlation With Indian Cyber Laws
Jaswinder Kaur	Proposed Security System to Embed Fingerprinting and Voice Recognition for ATMs

Gurdeep Singh	Evaluation of Penetration Testing Tools of KALI Linux
Gugneet Kaur	Analytical Processing of Semi-Structured Data
Rupali Mittal	Trust Based Node Recovery And Check pointing Techniques in Manets
Gagandeep Kaur	Design of Stream Cipher Algorithm for LTE Security
Ayesha	Conservation Of Energy Using Internet of Things
Gagandeep Kaur	Security Analysis and Comparison of DDos Attack Tools
Tasbir Singh	Analysis Of Ant Colony Optimization Based Protocols in MANETs
Muskan	Performance Analysis of ANTHOCNET And ANTDSR Protocols
Barinder Kumar	Implementation Of OLSR in MANET using Omnetpp
Gurwinder Singh Jatana	Enhancement Of SZRP Hybrid Routing Protocol Using Opnet Simulator
Geetika	Statistical Analysis of PSO-PMM Algorithm