Profile Page

Name	:	Dr Samayveer Singh
Designation	:	Assistant Professor Grade-i
Department	:	Computer Science & Engg.
Qualification	:	PhD Computer Engineering (University of Delhi, New Delhi, India) M.Tech (Gold medalist) Computer Science & Engineering (NIT Jalandhar, Punjab, India) B.Tech (Uttar Pradesh Technical University, Lucknow, India)
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Research Interests :

Wireless sensor networks - energy efficient techniques, heterogeneous network models, optimization techniques for sensor deployment;

Steganography - image data hiding, text steganography, reversible data hiding.

Other Profile Links :

Google Scholar Link :

Click for Dr Samayveer Singh Google Scholar Click Here

Journal Publications :

Year	Journal	Publication
2022	Comput. Stand. Interfaces 79: 103548	Rohit Ramteke, Samayveer Singh, Aruna Malik: Optimized routing technique for IoT enabled software-defined heterogeneous WSNs using genetic mutation based PSO
2022	Multimedia Tools and Applications, 1-22	SR Brahma, S Singh, DK Gupta, A Malik: A reversible data hiding technique using lower magnitude error channel pair selection
2022	Computers and Electrical Engineering 101, 108113	S Singh, AS Nandan, G Sikka, A Malik, A Vidyarthi: A secure energy-efficient routing protocol for disease data transmission using IoMT
2022	Soft Computing, 1-19	S Singh, AS Nandan, G Sikka, A Malik, PK Singh: Genetic algorithm-based data controlling method using IoT-enabled WSN in power grid

2022	Transactions on Emerging Telecommunications Technologies, e4681	S Singh, M Kumar, OP Verma, R Kumar, SS Gill: An IIoT based secure and sustainable smart supply chain system using sensor networks
2021	Wirel. Networks 27(6), 3733-3746	Preeti Gupta, Sachin Tripathi, Samayveer Singh: Energy efficient rendezvous points based routing technique using multiple mobile sink in heterogeneous wireless sensor networks
2021	Wirel. Networks 27(7): 4421-4440	Preeti Gupta, Sachin Tripathi, Samayveer Singh: RDA-BWO: hybrid energy efficient data transfer and mobile sink location prediction in heterogeneous WSN
2021	Multidimens. Syst. Signal Process. 32(2), 533-558	Gurjinder Kaur, Samayveer Singh, Rajneesh Rani: PVO based reversible data hiding technique for roughly textured images
2021	Int. J. Heal. Inf. Syst. Informatics 16(2), 21-48 (2021)	Deepti Singh, Bijendra Kumar, Samayveer Singh, Satish Chand: A Secure IoT-Based Mutual Authentication for Healthcare Applications in Wireless Sensor Networks Using ECC
2021	Int. J. Commun. Syst. 34(16)	Samayveer Singh, Aruna Malik, Rajeev Kumar, Pradeep Kumar Singh: A proficient data gathering technique for unmanned aerial vehicle-enabled heterogeneous wireless sensor networks
2021	Appl. Soft Comput. 107: 107318	Aridaman Singh Nandan, Samayveer Singh, Lalit Kumar Awasthi: An efficient cluster head election based on optimized genetic algorithm for movable sinks in IoT enabled HWSNs
2021	IEEE Sensors Journal 21 (22), 25912-25921	AS Nandan, S Singh, A Malik, R Kumar, A Green Data Collection & Transmission Method for IoT-Based WSN in Disaster Management
2021	IEEE Internet of Things Journal	S Singh, AS Nandan, A Malik, R Kumar, LK Awasthi, N Kumar, A GA based Sustainable and Secure Green Data Communication Method Using IoT enabled WSN in Healthcare
2021	IEEE Internet of Things Journal	AS Nandan, S Singh, R Kumar, N Kumar, An optimized genetic algorithm for cluster head election based on movable sinks and adjustable sensing ranges in IoT based HWSNs
2021	Archives of Computational Methods in Engineering 28 (5), 3517-3568	G Kaur, S Singh, R Rani, R Kumar, A comprehensive study of reversible data hiding (RDH) schemes based on pixel value ordering (PVO)
2021	Soft Computing, 1-14	S Singh, A Malik, PK Singh, A threshold-based energy efficient military surveillance system using heterogeneous wireless sensor networks
2021	Personal and Ubiquitous Computing, 1-22	D Singh, B Kumar, S Singh, S Chand, PK Singh, RCBE-AS: Rabin cryptosystem–based efficient authentication scheme for wireless sensor networks
2021	IET Image Processing	G Kaur, S Singh, R Rani, R Kumar, A Malik, High?quality reversible data hiding scheme using sorting and enhanced pairwise PEE
2021	Multimedia Tools and Applications, 1-19	N Kumar, R Kumar, A Malik, S Singh, Low bandwidth data hiding for multimedia systems based on bit redundancy
2020	IEEE Access vol 8: 74315-74325	Manju, Samayveer Singh, Sandeep Kumar, Anand Nayyar, Fadi Al-Turjman, Leonardo Mostarda, "Proficient QoS-Based Target Coverage Problem in Wireless Sensor Networks"
2020	Multim. Tools Appl., 79(25-26): 18815-18837	Samayveer Singh, "Adaptive PVD and LSB based high capacity data hiding scheme"
2020	Peer Peer Netw. Appl., 13(5): 1357-1374	Samayveer Singh: An energy aware clustering and data gathering technique based on nature inspired optimization in WSNs"
2020	Wirel. Pers. Commun., 114(1): 629-655	Deepti Singh, Bijendra Kumar, Samayveer Singh, Satish Chand, "Evaluating Authentication Schemes for Real-Time Data in Wireless Sensor Network"
2020	International Journal of Communication Systems 33 (18), e4641	P Gupta, S Tripathi, S Singh, Energy efficient hotspot problem mitigation techniques using multiple mobile sink in heterogeneous wireless sensor network

2019	Iranian Journal of Science and Technology, Transactions of Electrical Engineering, Springer, pp. 1-9	Samayveer Singh, “A Proficient Node Deployment Mechanism Using Adjustable Sensing Range in Wireless Sensor Networks”
2019	Multimedia Tools and Applications, Springer	Rajeev Kumar, Satish Chand, and Samayveer Singh, “An optimal high capacity reversible data hiding scheme using Move to Front coding for LZW codes”
2019	Wireless Personal Communications, Springer), vol. 107, no. 2	Deepti Singh, Samayveer Singh, Bijendra Kumar, and Satish Chand, “SMAC-AS: MAC based secure Authentication Scheme for Wireless Sensor Network”
2019	International Journal of Healthcare Information Systems and Informatics (IJHISI), IGI Global	Deepti Singh, Samayveer Singh, Bijendra Kumar, and Satish Chand, "A Secure IoT based mutual authentication for Wireless sensor networks using ECC"
2018	Int. Arab Journal of Information Technology, vol. 15, no. 4	R Kumar, S Chand, S Singh, “A Reversible Data Hiding Scheme Using Pixel Location”
2018	Multimedia Tools Appl., 77(12), pp. 15803-15827	A. Malik, S. Singh, & R. Kumar, "Recovery based high capacity reversible data hiding scheme using even-odd embedding&quot
2018	Multimedia Tools Appl., 77(11), pp. 13445-13457	R Kumar, S Chand, S Singh, “An Improved Histogram-Shifting- Imitated reversible data hiding based on HVS characteristics”
2017	Telecommunication Systems, Springer, vol. 64(2), pp. 259–277	Samayveer Singh, Satish Chand, and Bijendra Kumar, “Multilevel Heterogeneous Network Model for Wireless Sensor Networks”
2017	Int. Journal Engineering Science and Technology, Elsevier, vol. 20, no. 1	Samayveer Singh, Aruna Malik, and Rajeev Kumar, “Energy Efficient Heterogeneous DEEC Protocol for Enhancing Lifetime in WSNs”
2017	Int. Journal Engineering Science and Technology, Elsevier, vol. 20, no. 1	Samayveer Singh, “Energy Efficient Multilevel Network Model for Heterogeneous WSNs”
2017	Journal of Information and Optimization Sciences, Tayler and Frances, vol. 38 , no. 5, pp. 721-743	Samayveer Singh and Aruna Malik "hetSEP: Heterogeneous SEP Protocol for Increasing Lifetime in WSNs&quot
2017	Journal of Information and Optimization Sciences, Tayler and Frances, vol. 38 , no. 5, pp. 699-720	Samayveer Singh and Aruna Malik "hetDEEC: Heterogeneous DEEC Protocol for Prolonging Lifetime in Wireless Sensor Networks&quot
2016	Journal of Information and Optimization Sciences, Taylor and Francis, vol. 37, pp. 605-619	Samayveer Singh, Satish Chand and Bijendra Kumar, “Optimum sink location for sensor deployment in wireless sensor networks”
2016	Wireless Personal Communications, Springer, 86(2), pp. 451-475	Samayveer Singh, Satish Chand, and Bijendra Kumar, “Energy- Efficient protocols using Fuzzy Logic for Heterogeneous WSNs”
2016	IET Wireless Sensor Systems, 6(5), pp. 151 – 157	Samayveer Singh, Satish Chand, Rajeev Kumar, Aruna Malik, and Bijendra Kumar, “NEECP: A Novel Energy Efficient Clustering Protocol for Prolonging Lifetime of WSNs”
2016	I.J. Information Technology and Computer Science, vol.8, no.9, pp. 62- 72	Samayveer Singh and Aruna Malik “Heterogeneous Energy Efficient Protocol for Enhancing the Lifetime in WSNs”
2016	International Journal of Multimedia Intelligence and Security, vol. , no. , Inderscience	Rajeev Kumar, Satish Chand, and Samayveer Singh, “A Reversible High Capacity Data Hiding Scheme using Combinatorial Strategy,”
2016	International Journal of Forensic Computer Science, vol. 11, no. 1, pp. 8-29	Samayveer Singh and Aruna Malik, “Energy Efficient Scheduling Protocols for Heterogeneous WSNs”

2015	International Journal of Forensic Computer Science, 10(1), pp. 8- 14	Rajeev Kumar, Satish Chand, and Samayveer Singh, “An efficient text steganography scheme using Unicode Space Characters”
2015	Int. Journal of Computer Network and Information Security, 7(1), pp.38-45	Samayveer Singh, Satish Chand, Bijendra Kumar,"Performance Evaluation of Distributed Protocols Using Different Levels of Heterogeneity Models in Wireless Sensor Networks&quot
2014	Springer, Wireless Personal Communications, 77(3), pp. 2117-2139	Samayveer Singh, Satish Chand, and Bijendra Kumar, "Heterogeneous HEED Protocol for Wireless Sensor Networks"
2013	IET Electronics Letters, 49(16), pp. 1040-1041	Samayveer Singh, Satish Chand, Rajeev Kumar and Bijendra Kumar, “Optimal Sensors Deployment for WSNs in a Grid Environment”
2013	Int. Journal of Computer Network and Information Security, 5(4), pp.40-47	Samayveer Singh, Satish Chand and Bijendra Kumar, “3-Level Heterogeneity Model for Wireless Sensor Networks”
2013	I.J. Information Technology and Computer Science, 5(8), pp.101-108	Samayveer Singh and Ajay K Sharma, “Distributed Algorithms for Maximizing Lifetime of WSN with Heterogeneity and Adjustable Range for Different Deployment Strategies”
2013	Int. Journal of Future Generation Communication and Networking, 6(5), pp. 21-32	Samayveer Singh, Satish Chand, and Bijendra Kumar, “hetADEEPS: ADEEPS for Heterogeneous Wireless Sensor Networks”
2013	Electrical Engineering Research (EER), (11)1, pp.10-17	Samayveer Singh, Satish Chand and Bijendra Kumar, “Distributed Algorithms for Maximizing the Lifetime of WSNs with Heterogeneity for Adjustable Sensing Ranges,”
2010	Int. Journal of Computer Applications, 4(2), pp. 17-21	Samayveer Singh and Ajay K Sharma, “Energy-Efficient Data Gathering Algorithms for Improving Lifetime of WSNs with Heterogeneity and Adjustable Sensing Range”

Conference Publications :

Year	Conference	Publication
2021	Advances in Smart Communication and Imaging Systems, 343-351	A Malik, S Singh, S Awasthi, P Yadav, Gray-Version Invariant Reversible Data Hiding Scheme Based on 2D Histogram Modification for Color Images
2021	Advances in Smart Communication and Imaging Systems, 167-182	S Singh, P Yadav, A Malik, R Agrawal, OCHEP: An Optimized Cluster Head Election Protocol for Heterogeneous WSNs
2021	2nd International Conference on Secure Cyber Computing and Communications (ICSCCC), 54-59	Nisar Ahmad, Samayveer Singh, Comparative Study of Disease Detection in Plants using Machine Learning and Deep Learning
2021	2nd International Conference on Secure Cyber Computing and Communications (ICSCCC), 524-528	Aman Kumar, Samayveer Singh, A Review on Indian Summer Monsoon Rainfall Prediction Using Machine Learning Techniques
2021	2nd International Conference on Secure Cyber Computing and Communications (ICSCCC), 529-534	Shivam Patidar, Samayveer Singh, Information Theory-based Techniques to Detect DDoS in SDN: A Survey
2020	The International Conference on Recent Innovations in Computing, 235-251	S Singh, PK Singh, A Malik, OSEP: An Optimized Stable Election Protocol in Heterogeneous Wireless Sensor Networks
2020	The International Conference on Recent Innovations in Computing, 275-292	A Malik, S Singh, PK Singh, DACHE: a data aggregation-based effective and optimized cluster head election routing protocol for HWSNs

2020	7th International Conference on Signal Processing and Integrated Networks (SPIN)	Gurjinder Kaur, Samayveer Singh, Rajneesh Rani, "A High Capacity Reversible Data Hiding Technique Based on Pixel Value Ordering Using Interlock Partitioning"
2019	6th Int. Conf. on Signal Processing and Integrated Networks (SPIN), pp. 903-907	Rajeev Kumar, Samayveer Singh, and Ki-Hyun Jung, “Human Visual System based Enhanced AMBTC for Color Image Compression using Interpolation”
2018	IEEE 8th International Advance Computing Conference (IACC 2018), pp. 33-38	Deepti Singh, Bijendra Kumar, Samayveer Singh, and Satish Chand, “An Efficient and Secure Authentication Scheme using Markov Chain for Wireless Sensor Networks”
2018	4th IEEE Int. Conf. on Computing Communication and Automation, pp. 875-879	Deepti Singh, Bijendra Kumar, Samayveer Singh, and Satish Chand, “An Efficient Biometric based three-factor authentication scheme for Wireless Sensor Network”
2018	4th IEEE Int. Conf. on Computing Communication and Automation, pp. 828-831	Aruna Malik, Rajeev Kumar and Samayveer Singh “A New Image Steganography Technique Based on Pixel Intensity and Similarity in Secret Message”
2016	Int. Conf. on Computing, Communication and Automation, ICCCA2016, pp. 1399 – 1403	Rajeev Kumar, Aruna Malik, Samayveer Singh, Bijendra Kumar, Satish Chand, “Reversible Data Hiding Scheme for LZW codes using Even-odd Embedding strategy”
2016	Int. Conf. on Computing, Communication and Automation, ICCCA2016, pp. 1090 – 1094	Rajeev Kumar, Aruna Malik, Samayveer Singh, Bijendra Kumar, Satish Chand, “A Space based reversible high capacity text steganography scheme using Font type and style”
2016	Int. Conf. on Signal Processing & Integrated Networks", SPIN 2016, pp. 53 – 56	Rajeev Kumar, Satish Chand, and Samayveer Singh, “A high capacity Email based text steganography scheme using Huffman compression”
2016	In Proceedings of the International Conference on Advances in Information Communication Technology & Computing, AICTC '16, pp.1-5	Aruna Malik, Rajeev Kumar, and Samayveer Singh, “Reversible Data Hiding Scheme for LZW Codes using LSB Flipping Strategy”
2014	5th IEEE Int. Conf. CONFLUENCE 2014: The Next Generation Information Technology Summit, pp. 336 – 339	Rajeev Kumar, Satish Chand, and Samayveer Singh, “An Email based high capacity text steganography scheme using combinatorial compression”
2014	5th IEEE Int. Conf. CONFLUENCE 2014: The Next Generation Information Technology Summit, pp. 427 – 431	Samayveer Singh, Satish Chand and Bijendra Kumar, “An Energy Efficient Clustering Protocol with Fuzzy Logic for WSNs”
2014	2nd IEEE Int. Conf. on Info. Systems and Computer Networks (ISCON-2014), pp. 113–117	Samayveer Singh, Satish Chand and Bijendra Kumar, “Optimum Deployment of Sensors in WSNs”
2013	IEEE/IET, 4th Int. Conf. CONFLUENCE 2013: The Next Generation Information Technology Summit, pp. 257 – 262	Samayveer Singh, Satish Chand, Rajeev Kumar and Bijendra Kumar, “A Heterogeneous Network Model for Prolonging Lifetime in 3-D WSNs”
2013	3rd IEEE Int. Advance Computing Conference (IACC-2013), pp- 1051 – 1054	Samayveer Singh, Satish Chand and Bijendra Kumar, “Performance investigation of heterogeneous algorithms in WSNs”
2010	IEEE, Int. Conf. on Parallel, Distributed and Grid Computing (PDGC-2010), pp: 152 – 157	Samayveer Singh and Ajay K Sharma, “A Heterogeneous Power Efficient Load Balancing Target-Monitoring Protocol for Sensor Networks”

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
International	A Threshold-Based Optimization Energy-Efficient Routing Technique in Heterogeneous Wireless Sensor Networks	Machine Learning and Cognitive Computing for Mobile Communications and Wireless Networks John Wiley & Sons	Samayveer Singh	9781119640363	2020
International	A Clustering-Based Optimized Stable Election Protocol in Wireless Sensor Networks	Applications in Ubiquitous Computing Springer, Cham	Samayveer Singh	9783030352790	2020
International	An Effective Analysis and Performance Investigation of Energy Heterogeneity in Wireless Sensor Networks	Handbook of Wireless Sensor Networks: Issues and Challenges in Current Scenario's Springer, Cham	Samayveer Singh, Rajeev Kumar, Pradeep Kumar Singh	9783030403058	2020
International	Extreme Event Forecasting Using Machine Learning Models	Advances in Communication and Computational TechnologySpringer, Singapore	Manish Kumar, Deepak Kumar Gupta, Samayveer Singh	9789811553417	2020
International	Outcome Prediction of Patients for Different Stages of Sepsis Using Machine Learning Models	Advances in Communication and Computational Technology, pringer, Singapore	Pankaj Chaudhary, Deepak Kumar Gupta, Samayveer Singh	9789811553417	2020
International	An Animal Detection and Collision Avoidance System Using Deep Learning	Advances in Communication and Computational Technology Springer, Singapore	Atri Saxena, Deepak Kumar Gupta, Samayveer Singh	9789811553417	2020
International	Anonymity Preserving Authentication and Key Agreement Scheme for Wireless Sensor Networks	Springer	Deepti Singh, Samayveer Singh, Bijendra Kumar, and Satish Chand	978-981-13-3804-5	2018
International	Performance Investigation of Energy Efficient HetSEP for Prolonging Lifetime in WSNs	Springer	Samayveer Singh and Pradeep K Singh	978-981-13-3804-5	2018
International	Performance Analysis on Distributed & Centralized Algorithms in WSNs	LAP LAMBERT, Saarbrücken, Germany	Samayveer Singh and Ajay K Sharma	978-3-659-88371-2	2016

International	3-Tier Heterogeneous Network model for Increasing Lifetime in Three Dimensional WSNs	Springer Berlin Heidelberg	Samayveer Singh, Satish Chand and Bijendra Kumar	978-3-642-37948-2	2013

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
Co-PI	Research Project	Single Object Tracking in a video/image sequence using machine/deep learning techniques	Indian Space Research Organisation			18 Lakh	Completed	

Events Organized :

Category	Type	Title	Venue	From	To	Designation
E-International Conference	International	Socio-Economic and Health Challenges due to COVID-19 and Mitigation Strategies (SECHM-2020)	NIT Jalandhar	22-10-2020	23-10-2020	Organizing Secretary
STC	National	Cyber Safety		28-07-2020	01-08-2020	Coordinator
STC	National	Innovation, Novelty and Intellectual Property Rights	NIT Jalandhar	28-08-2020	01-09-2020	Coordinator
STC	National	Cyber Security and Forensics	NIT Jalandhar	22-03-2021	26-03-2021	Coordinator
STC	National	Cyber Forensic & Information Security	NIT Jalandhar	16-12-2021	20-12-2021	Coordinator
STC	National	Cyber Security: Managing Risks in the Information Age	NIT Jalandhar	12-10-2022	16-10-2022	Coordinator

Professional Affiliations :

Designation	Organization
Lifetime Member	ISTE (Indian Society for Technical Education) (ID:LM 121421)
Lifetime Member	CSI (Computer Society of India) (ID:2010000257)
Lifetime Member	International Association of Engineers, IAENG (ID: 137044)
Member	IEEE (ID:93315374)
Member	IETE (ID: M 500967)
Member	Vibha India (ID: 8736)
Member	ACM Membership (ID:1668835)
Member	Institution of Engineers (ID:M-1719275)

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor

Abhinav Chola (20203001)	Study and Design of GIF Induced Reversible Steganography Techniques	Completed	2022	Prof. Lalit Kumar Awasthi
Anjali Gupta (20903036)	Design and Analysis of Information Hiding Method for GIF Images	Completed	2022	Prof. Lalit Kumar Awasthi
Ravi Kumar (20203018)	Design and Performance Analysis of Authentication Schemes in Wireless Sensor Network	Completed	2022	
Mayank Pandey (20203012)	An Approach to Detect Low Resolution Deepfake Images using Machine Learning	Completed	2022	
Akshay Kumar (20203002)	Auto-Encoder Architecture for Image Steganography using Skip Connections and Dilated InceptionNet	Completed	2022	Dr. Rajneesh Rani
Aman Kumar (19203003)	Forecasting of Southwest Indian Summer Monsoon Rainfall Using Machine Learning Techniques	Completed	2021	
Nisar Ahmad (19203019)	Plant Disease Detection using Transfer Learning and Data Augmentation with GAN	Completed	2021	
Shivam Patidar (19203109)	Design and Performance Evaluation of DDoS Attack Detection Using Machine Learning Techniques	Completed	2021	
Sanjiu Raja Brahma (18203017)	Design and Analysis of Reversible Data Hiding Using Lower Magnitude Error Channel Pair Selection	Completed	2020	Mr D K Gupta
Rohit Ramteke (18203103)	Particle Swarm Optimization and Genetic Mutation based Routing Technique for IoT Based Software-Defined WSNs	Completed	2020	
Gurjinder Kaur (18203101)	Design and Analysis of Sorting based Reversible Data Hiding Techniques	Completed	2020	Dr. Rajneesh Rani
Abinas Parida (17203002)	Dynamic Classifier Selection Approach for Software Fault Prediction	Completed	2019	
Pankaj Chaudhary (17203017)	Outcome Prediction of Patients for Different Stages of Sepsis Using Machine Learning Models	Completed	2019	Mr D K Gupta
Atri Saxena (17203103)	An Effective Animal Detection Approach based on Deep Learning Techniques	Completed	2019	Mr D K Gupta
Manish Kumar (17203012)	Extreme Event Forecasting using Machine Learning Models for Uber Cabs	Completed	2019	Mr D K Gupta

Patents :

Name	**Reg./Ref. No.**	**Date of Award/Filling**	**Organization**	**Status**
Method for hiding private information	2041/DEL/2015	06-07-2015		In process
HEALTH BASED SYSTEM AND METHOD FOR CONTROLLING ONE OR MORE FIRST INSTRUCTION SETS RESIDING IN A COMPUTING DEVICE	TEMP/E1/7669/2021-DEL	19/02/2021		In process
SECURITY ENHANCEMENT BASED ON VARIOUS CRITERIA INDIGITAL PAYMENT TRANSACTIONS	TEMP/E-1/12696/2021-DEL	16/03/2021		In process

Award and Honours :

Title	Activity	Given by	Year
Research Award	Included in the list of Top 2% Scientists in the world ranking of 2021	Stanford University and Elsevier BV on 19 October, 2021	2021
Best Teacher Award	For commendable teaching, research and administrative activities	Chairman (Senate), NIT Jalandhar	2020
Best Teacher Award	Shikshak Samman Samaroh	Rashtria Shaikshik Mahasangh Uttar Pradesh	2018
Gold medal	Best performance in Master of Technology in Computer Science and Engineering at National Institute of Technology, Jalandhar, India.	Dr Anil Kakodkar, Indian physicist	2011