

CURRICULAR VITAE

Name : Man Mohan Singh Rauthan
Father's name : Lt. Shri T.S. Rauthan
Date of Birth : 27/06/1964
Address of Correspondence : Department of Computer Science & Engineering
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Working Experience :



S.No	Post Held	Pay Scale	Organization/ University	Duration		Experience (Years and Months)
				From	To	
1.	Professor	Academic Level 14	H.N.B. Garhwal University Srinagar Garhwal 246 174	07-02-2001	to till date	19 Years
2.	Reader	3700- 5700	G.B. Pant Engg. College, Pauri	09/06/1995	07-02-2001	5 Yrs 8 Months
3.	Systems Analyst	3000-4500	National Informatics Centre, Delhi	01/01/1993	8/06/1995	2Yrs 5 Months
4.	Senior Systems Analyst	2200-4000	National Informatics Centre, Delhi	06/10/1988	1/12/1992	4 Yrs 2 months
5.	Programmer	1820-3200	Govt. Computer Center, Bhopal	05/08/1987	5/10/1988	1 Yr 2 Months

Educational Qualification :

S.No	Qualification	Institute/ Board/ University	Year	Subject (s) Topics(s)	% Achieved
1.	Ph.D.	Kumaon University Nainital	2014	Information Technology	-
2.	PG (M.Tech/Equiv)	Roorkee University	1987	Computer Science and Technology	74.9
3.	M.Sc	I.I.T., Delhi	1985	Physics	7.49/10
4.	Higher Secondary School(HSC) Equivalent of Class12	Messmore Intermediate College, Pauri	1980	Physics Chemistry Mathematics	72.2
5.	Secondary School(SSC) Equivalent of Class 10	DAV Intermediate College, Pauri	1978	Science Mathematics Biology	78.0

Detail of SCI Publications :

S.NO.	Title	Journal Name	Page No.,Year
1	TOPSIS-PSO inspired non-preemptive tasks scheduling algorithm in cloud environment.	Cluster Computing H-index 33	1-22, 2019
2.	CMODLB: an efficient load balancing approach in cloud computing environment	The Journal of Supercomputing Impact Factor 2.60	January 2021
3	AntPu: a meta-heuristic approach for energy-efficient and SLA aware management of virtual machines in cloud computing	Memetic Computing Springer Berlin Heidelberg Impact Factor 3.860	January 2021

Details of Research Scholars (Ph.D.) successfully guided as (main/Principal) supervisor/Co-Supervisor:

Name of Programme, including the university awarding the degree	Title of the Thesis/ Dissertation	Name of Student	List of all Supervisors, together with their roles(as Main Supervisor/Co-supervisor)	Awarded on (date)
Ph. D. in Computer Science, Uttarakhand Technical University	Cryptanalysis and further enhancement of ID and biometric based remote user authentication scheme	Sri Narendra Panwar	Manmohan Singh Rauthan (Guide) Dr. Amit Agarwal (Co-guide)	24/02/2018
Ph.D. in Computer Science, Uttarakhand Technical University	An efficient algorithm for securing biometric data over computer network.	Sri Manmohan Lakhera	Manmohan Singh Rauthan (Guide) Dr. Amit Agarwal (Co-guide)	23/04/2018

List of Publications (Latest):

- Rakesh Pandey, H. S. Dhami and **M. M. S. Rauthan**, “Modelling of Parts of Speech Patterns And Exhibition of Relation Between Stylistic Patterns Of Different Writers “(2009), Shekhar (New Series) International Journal of Mathematics, Volume I Issue I Dec 2009 pp 139-153
- **M. M. S. Rauthan**, Pritam Singh Negi and H. S. Dhami , “Computer Program for Modeling the Patterns of Parts of Speech(2010)”, International Journal of Computer Applications (0975 – 8887), Volume 7– No.6, September 2010
- Pritam Singh Negi, **M. M. S. Rauthan** and H. S. Dhami, “Sentence Boundary Disambiguation: A User Friendly Approach (2010)”, International Journal of Computer Applications (0975 – 8887), Volume 7– No.8, October 2010
- Pritam Singh Negi, **M. M. S. Rauthan** and H. S. Dhami, “Language Model for Information Retrieval, International Journal of Computer Applications (0975 – 8887)”, Volume 12– No.7, December 2010
- Pritam Singh Negi, **M. M. S. Rauthan** and H. S. Dhami, “Text Summarization for Information Retrieval using Pattern Recognition Techniques”, International Journal of Computer Applications (0975 – 8887), Volume 21– No.10, May 2011.
- **M. M. S. Rauthan**, Pritam Singh Negi and H. S. Dhami , “Pattern Recognition System for Translating the English Sentence into Hindi (2012)”, International Journal of Computer Applications (0975 – 8887), Volume 39– No.2, February 2012.

- **M. M. S. Rauthan**, Sumit Kulbe and H. S. Dharmi, "Correction of Verbs in English Corpus by using the Concept of AI"(2012), International Journal of Computer Applications (0975 – 8887), Volume 60–No.7, December 2012.
- Neelam Panwar, Sarita Negi, **Man Mohan Singh** & Kunwar Singh Vaisla, "TOPSIS-PSO inspired Non-Preemptive Tasks Scheduling Algorithms in Cloud Computing Environment", Cluster Computing, Springer, 2019 pp.1-18. (Scopus)(SCI)
- Neelam Panwar, Sarita Negi, **Man Mohan Singh Rauthan**, Mayank Aggarwal & Pragya Jain, "An Enhanced Scheduling Approach with cloudlet migration for Resource Intensive Applications", Journal of Engineering Science and Technology, 2018,13(8),2299-2317.(Scopus)
- Neelam Panwar, Sarita Negi & **Man Mohan Singh**, "Non-live Task Migration Approach for Scheduling in Cloud Based Applications", 2018, ISBN: 978-981-10-8660-1.
- Narendra Panwar, **MMS Rauthan** and Amit Agarwal, "Remote User Authentication Scheme: Review", International Journal of Science and Engineering Invention (IJSEI), Vol 6, Issue 12, pp9-12, 2017, ISSN (Print):0974-6846, ISSN(Online):0974-5645 [UGC][Google Scholar]
- Narendra Panwar, **MMS Rauthan** and Amit Agarwal, "A comparative analysis and improvement of smart card based remote user authentication scheme", 9th IEEE International Conference on Contemporary Computing-IC3, Noida, India, Sep 2016. [IEEE][Google Scholar]
- Narendra Panwar, **MMS Rauthan** and Amit Agarwal, "Privacy of Patient Information: Implementation and Security Analysis of a Secure Three Tier Patient Information System based on QR Code", IEEE International Conference on Micro Electronics and Telecommunication Engineering (ICMETE-2016), SRM University, India, Dec 2016. [IEEE][Google Scholar]
- Narendra Panwar, **MMS Rauthan** and Amit Agarwal, "Remote User Authentication Scheme: Cryptanalysis of smart card and biometric-hash based authentication scheme", IEEE 2nd International Conference on Next Generation Computing Technologies (NGCT2016), UPES, Dehradun, India, Dec 2016.[IEEE][Google Scholar]
- Narendra Panwar, **MMS Rauthan** and Amit Agarwal, "Remote User Authentication Scheme: Security Analysis, Comparison and Further Improvement of Smart Card based Scheme," in International Conference on Systemics, Cybernetics and Informatics ICSCI, 2017, Hydrabad.
- Narendra Panwar, **MMS Rauthan** and Amit Agarwal, "Improved Dynamic ID and Mutual Authentication based Remote User Authentication Scheme," in 2016 National Conference on Communication Systems and Advance Computing, NCCAC, 2016, THDC, Tehri
- Manmohan Lakhera, **M. M. S Rauthan**, Amit Agarwal , " Biometric Template Security Schemes: Review "Publication date 2017/9/9 Conference International Conference Systemics, Cybernetics and Informatics
- Manmohan Lakhera, **Manmohan Singh Rauthan**," Securing Stored Biometric Template Using Cryptographic Algorithm "Publication date 2018/10/1, Journal - International Journal of Rough Sets and Data Analysis (IJRSDA) Publisher- IGI Global
- Manmohan Lakhera, **M. M. S. Rauthan**, Amit Agarwal , " An Efficient Cryptographic Algorithm for Securing Biometric Template Using AES and Scrambling the Pixels of Row and Column "Publication date 2017/6/8 Conference Micro-Electronics and Telecommunication Engineering (ICMETE), 2016 International Conference on Publisher IEEE

- Manmohan Lakhera, **MMS Rauthan**, Amit Agarwal ,” Securing biometric template using double hill cipher with self-invertible key and random permutation of pixels locations”,Publication date 2016/10/14 Conference 2016 2nd International Conference on Next Generation Computing Technologies (NGCT) Pages 814-817 Publisher IEEE
- Manmohan Lakhera, **MMS Rauthan**, Amit Agarwal,”Securing Biomtric Template Over Non-Secure Channel using Cryptography and Helping Data “IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661,p-ISSN: 2278-8727, Volume 17, Issue 5, Ver. IV (Sep. – Oct. 2015), PP 129-132
- R Verma, **MMS Rauthan**, KS Vaisla “A comparative analysis of multicast routing protocols in VANET for smart city scenario”,2017 International Conference on Inventive Computing ..., 2017, Pages 810-814,Publisher IEEE [IEEE][Google Scholar][Scopus]
- Pramod Kumar, **MMS Rauthan** and Vikram Kapoor, “A Review On Data Integrity Models And Schemes”, International Journal of Engineering Science Invention(IJESI)”, Volume 7 Issue 3 Ver. VI, March 2018. ISSN (Online): 2319 – 6734,ISSN (Print): 2319 – 6726, PP23-27 Indexed in [EBSCO] [Google Scholar] [ProQuest]
- Pramod Kumar, **MMS Rauthan** and Vikram Kapoor, “Efficient Data Integrity Algorithm for Outsourced Data in Cloud Environment”, Int. Journal of Engineering Research and Application, ISSN: 2248-9622, Vol. 8, Issue3, March 2018, pp.10-15 Indexed in [DOAJ] [Google Scholar] [ProQuest] [CiteSeer][UGC]
- Pramod Kumar, **MMS Rauthan**, “Remote User Authentication Scheme: A comparative analysis and improved behavioral biometrics based authentication scheme,” IEEE International Conference on Micro Electronics and Telecommunication Engineering (ICMETE-2016), SRM University, India. Indexed in [IEEE] [Google Scholar]
- Pramod Kumar, **MMS Rauthan**, “Remote User Authentication Scheme using Keystroke Dynamics,” in 2016 National Conference on Communication Systems and Advance Computing, NCCAC, 18-19 June 2016, THDC, New Tehri. Indexed in [Google Scholar]
- Ashish, **Prof. M.M.S. Rauthan**, Varun Barthwal, Rohan Varma,” The Latest Review: Scheduling Algorithms On The Cloud Computing Based Environment”, INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 9, ISSUE 01, JANUARY 2020
- Varun Barthwal , **M.M.S. Rauthan** and Rohan Varma,” A survey on application of machine learning to manage the virtual machines in cloud computing”, International Review of Applied Sciences and Engineering, Volume 11: Issue 3.(Scopus)
- Karishma Dobhal, Rohan Varma, Varun Barthwal, **M.M.S.Rauthan**,” The Relative performance of Security protocols and attacks in Wireless Sensor Network”, International Journal of Advanced Science and Technology, Vol. 29 No. 05 (2020)(Scopus).
- Sagar Samrat Shah, Varun Barthwal, **M.M.S Rauthan**, Rohan Verma,” Systematic Review On Vm Scheduling Algorithms”, International Journal of Scientific & Technology Research, VOL 9, Issue 03, March 2020.
- Amrita Tiwari, Rohan Varma, **M.M.S Rauthan**, Varun Barthwal,” Analysis of Security Attacks and Security Protocols of Wireless Sensor Network: Review”, International Journal of Scientific & Technology Research ,VOL 9, Issue 01, January 2020


- Varun Barthwal, *MMS Rauthan*," AntPu: a meta-heuristic approach for energy-efficient and SLA aware management of virtual machines in cloud computing," Memetic Computing, pp1-20, January 2021(SCIE, Scopus).
- Sarita Negi, *Man Mohan Singh Rauthan*, Kunwar Singh Vaisla and Neelam Panwar," CMODLB: an efficient load balancing approach in cloud computing environment", The Journal of Supercomputing, Jan 2021(SCI, SCOPUS).

Books Written on Computers:

- R.B. Patel, *M.M.S. Rauthan*, Expert Data Structures With C++, Khanna Publication, ISBN 10: 8187522038 / ISBN 13: 9788187522034
- Rakesh Saini, *M. M. S. Rauthan*, Database Management System, Publisher Vayu Education of India, ISBN 10: 9380097387/ISBN 13: 9789380097381

I hereby declare that all the statements/particular made/furnished above are true, complete and correct to the best of my knowledge and belief.

Srinagar (Garhwal)


 (Prof. Manmohan Singh Rauthan)