

CURRICULUM-VITAE

S/O Shri K. N. SINGH
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PHASE-4, CHARGAWA,
GORAKHPUR (U.P.), INDIA
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AVINASH SINGH

OBJECTIVE: Intend to build career in teaching in higher education along with doing Research & Development in area of Computer Science and Information Technology.

PROFESSIONAL SKILL SET:

1. Programming Languages: C, C++, JAVA, Visual Studio.
2. Database: MYSQL, Oracle 10g.
3. Operating System: Windows, UNIX.
4. Simulation Applications: MATLAB, NS-2, Packet Tracer.

EDUCATIONAL QUALIFICATIONS:

1. Ph.D. in Computer Science from D.D.U.G. University Gorakhpur in 2022.
2. M. Tech. (CSE) from UCER Allahabad, affiliated to GBTU Lucknow in 2009.
3. M.Sc. in Computer Science from D.D.U.G. University, Gorakhpur in 2007.
4. P.G. Dip. in Computer Science from D.D.U.G. University, Gorakhpur in 2003.
5. B. Sc. (Maths) from D.D.U. Gorakhpur University, Gorakhpur in 2002.
6. 12th Passed from NERSSS, Gorakhpur, CBSE Board in 1998.
7. 10th Passed from NERSSS Gorakhpur, CBSE Board in 1996.

PROFESSIONAL QUALIFICATIONS:

1. DOACC O & A Level.
2. CCNA certified.

TEACHING AND RESECH EXPERIENCES

7 Years in Research & Teaching in higher education and 1 year after Ph.D.

AREA OF INTEREST:

Computer Networks, Advance Network, Network Security, DBMS, Operating System, Computer Graphics, Digital Logic, Operational Research, AI.

ACHIEVEMENTS:

1. Gorakhpur University Topper in P.G.D.C.S. in 2003.
2. Qualified for Gate 2007 in Computer Science.
3. Qualified for UP CET 2012.
4. Second position in M.P. Edu. Society Computer Quiz in Inter University competition.
5. Two times winner in N.E. Railway Zonal Cultural Championship.

PROJECT HANDLED AND EXPERIENCES:

1. Network Communication and Security.
2. Paper Presented in International and National Conferences (21).

PERSONAL PROFILE:

Father's Name: Kailash Nath Singh
Date of Birth: 22-04-1981
Permanent Address: H.NO 46, 47, RAPTI NAGAR, PHASE - 4,
CHARGAWA, GORAKHPUR (U.P.)-273013
Interest and Activities: Football, story writing, drama, quiz.
Languages: English, Hindi.

Declaration:

I consider myself familiar with Computer Science & Information Technology aspects.

I am also confident of my ability to work in a team.

I hereby declare that the information furnish above is true to the best of my knowledge.

Date:

Avinash Singh

Place:

Research Work Experiences

Paper Presented in International and National Conferences (27)

Paper Presented in International Conferences (3)

Year 2008

1. Paper title “Green Computing”, International Conference on Emerging Challenges in Science and Technology organized by UIT Allahabad on 13-14 Nov 2008.

Year 2012

2. Paper title “Intelligent Railroad Level Crossing Gate Control System Using Neuro Fuzzy Controller” International Conference on Artificial Intelligent and Soft Computing organized by Department Computer Engineering, BHU IT, Varanasi on 7-9 Dec 2012.

Year 2013

3. Paper title “A Fuzzy Expert System to Identify Japanese Encephalitis in Early Stage among Symptoms of Mosquito Born Diseases”, International Conference on Harmony with Nature in Context of Ecotechnological Intervention and Climate Change Organized by Department of Department of Geology, Environment and Biotechnology, DDUG , Gorakhpur on 11-13 Nov 2013.

Paper Presented in National Conferences (24)

Year 2008

1. Paper title ‘Managing the energy consumption and computerization in India’, National Seminar on Management of Change – Shifting Paradigm in Business Model: Issue and Challenges in Globalized Era by UIM Allahabad on 3 May 2008.

Year 2012

2. Paper title “Cyber Security: Challenges for Indian Society, Economy and Defence”, National Seminar on Cyber Security: Challenges and Opportunities in 21st Century

organized by Department of Computer Science, DDUG University, Gorakhpur on 19-20 Feb 2012.

3. Paper title “Neural Network Cryptography”, National Seminar on Cyber Security: Challenges and Opportunities in 21st Century organized by Department of Computer Science, DDUG University, Gorakhpur on 19-20 Feb 2012.

4. Paper title “Elliptical Curve Cryptography for Encrypting all Elements of Multimedia & Communication over Low Bandwidth Channel”, National Seminar on Cyber Security: Challenges and Opportunities in 21st Century organized by Department of Computer Science, DDUG University, Gorakhpur on 19-20 Feb 2012.

5. Paper title “Handwritten Character Recognition Using Artificial Neural Networks”, National Seminar on Cyber Security: Challenges and Opportunities in 21st Century organized by Department of Electronics, DDUG University, Gorakhpur on 21-22 Feb 2012.

6. Paper title “India Internal Security: Need of an e-force”, National Seminar on India’s Internal Security : Present and Future organized by Department of Defence & Strategic Studies, DDUG University, Gorakhpur on 25-26 Mar 2012.

Year 2013

7. Paper title “Globalization and Marginalized Groups in India in Context of I.T. Revolution”, National Seminar on Globalization and Marginalized Groups in India: Context and Issues organized by Department of Sociology, DDUG University, Gorakhpur on 5th - 6th Feb 2013.

8. Paper title “Nature of Computer Research: A Hurdle to Become India a Super Power in Field of Information Technology”, National Seminar on Emerging Area of Contemporary Indian Education organized by Department of Education, DDUG University, Gorakhpur on 09th - 10th March 2013.

9. Paper title “FDI: The Proxy Way of Using Game Theory by Multinational Companies in India Retail Market”, National Seminar on Foreign Direct Investment

in India's Retail Sector: Issues & Options organized by Department of Business Studies, DDUG University, Gorakhpur on 17th-18th Mar 2013.

10. Paper title "India National Security and Threats of Neighbouring Countries In perspective of Game Theory", National Seminar on India's National Security : Issues, Challenges and Options organized by Department of Defence & Strategic Studies, DDUG University, Gorakhpur on 28th – 29th Sep 2013.

11. Paper title "Early Stage Diseases Detection in Cauliflower Plants Using Fuzzy Expert System", XXXVI All India Conference of The Indian Botanical Society Plant Wealth and Human Welfare organized by Department of Botany, DDUG University, Gorakhpur on 18th – 20th Sep 2013.

12. Paper Title "Opening the New Dimension of Expression within Indian Society through Social Media", National Seminar on Social Development in India: Issues and Challenges organized by Department of Sociology, DDUG University, Gorakhpur on 15th – 16th Nov 2013.

13. Paper Title "Role of Information Technology in Indian economics development: Issues and Challenges", National Seminar on Emerging Issues and Challenges for Indian Economy organized by Department of Economics, DDUG University, Gorakhpur on 23rd – 24th Nov 2013.

14. Paper Title "Terrorism in South Asia : A proxy War Strategy Based on Game Theory", National Seminar on Terrorism in South Asia : Issues, Challenges and Options organized by Department of Defence & Strategic Studies, DDUG University, Gorakhpur on 14th – 15th Dec 2013.

Year 2014

15. Paper Title "Enhancing Performance of Power Consumption for Wireless Networks", TEQIP-II Sponsored National Seminar on Material Science and Technology organized by Department of Applied Science, MMM University, Gorakhpur on 10th – 11th March 2014.

16. Paper Title “Enhancing Power Efficiency in Wireless Sensor Networks by Fuzzy Diffusion Logics”, TEQIP-II Sponsored National Seminar on Material Science and Technology organized by Department of Applied Science, MMM University, Gorakhpur on 10th – 11th March 2014.

Year 2015

17. Paper Title “Securing Distributed by Intrusion Detection System”, TEQIP-II Sponsored National Seminar on Recent Advances in Chemical and Materials Science organized by Department of Applied Science, MMM University of Technology, Gorakhpur on 23rd – 24th February 2015.

18. Paper Title “Genetic Algorithm Based Dynamic Optimal Routing Protocol for Wireless Ad-Hoc Network”, TEQIP-II Sponsored National Seminar on Recent Advancement in Communication Engineering and Microelectronics organized by Department of Applied Science, MMM University of Technology, Gorakhpur on 27th – 28th March 2015.

19. Paper Title “Nature of Computer research in India”, UGC Sponsored National Seminar on Higher Education’s Status and Direction In Eastern U.P. organized by Employee Association DDUG University, Gorakhpur on 16th – 17th May, 2015.

Year 2016

20. Paper Title “Protecting Relational Database against Database Intrusion”, by NCCTCES-2016 and NCAST -2016 organized by ITM GIDA, Gorakhpur Employee Association DDUG University, Gorakhpur on 22nd – 23rd April 2016.

21. Paper Title “Using Biometric Base Authentication to Protect Distributed Database against Various Security Issues”, National Conference on Advancement in Computational Science and Technology”, (NCACT -20160 organized by Department of Computer Science and Engineering, MMM University of Technology, Gorakhpur (UP) on 4th – 5th March 2016.

22. Paper Title “Security Implications and Countermeasures in Distributed Database environment”, National Conference on Advancement in Computational Science and Technology “, (NCACT -20160 organized by Department of Computer Science and Engineering, MMM University of Technology, Gorakhpur (UP) on 4th – 5th March 2016.

23. Paper Title “Wireless cellular Network Congestion Resolution by Game Theory”, UGC Sponsored National Seminar on “Smart Indian Vision 2020: Innovation in Commerce and Management” organized by Department of Commerce, DDUG University, Gorakhpur on 26th – 27th March 2020.

2023

24. Paper Title “Approaches Using Artificial Intelligent for Developing Women Safety Apps”, NCW, New Delhi Sponsored National Seminar on “Women in Decision Making Roles in Corporate World” organized by Department of Commerce, Pondicherry University Community College, held on 19th and 20th October, 2023.

International and National Conferences Workshop Attended (2)

National Workshop Attended (2)

Year 2016

1. Attended National workshop on “Scientific Paper Writing and Effective Communication”, organized Department of Biotechnology, DDUGU, Gorakhpur, on 17-18 Sep 2016.

Year 2017

2. Attended National workshop on “Advances in Computing Technology (ACT2017)”, organized Department of Computer Science and Engineering, MMTU, Gorakhpur, on 23 Feb – 01 March 2017.

International and National Workshop Faculty Development Program (4)

National Workshop Attended (4)

Year 2019

- 1.** Attended Faculty Development Program of two week on “ICT in Learning Process”, jointly organized by Electronics and ICT Academy, NIT Patna & Department of Computer Science, TERI, Ghazipur, UP under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by MeitY Gov of India from 18-27 Feb, 2019.
- 2.** Attended Faculty Development Program of one week on “Deep Learning and Application”, jointly organized by Electronics and ICT Academy, NIT Patna & Department of Computer Science, TERI, Ghazipur, UP under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by MeitY Gov of India from 27- 31 May, 2019.
- 3.** Attended Faculty Development Program one week on “Robotics and AI”, jointly organized by Electronics and ICT Academy, NIT Patna & Department of Computer Science, TERI, Ghazipur, UP under the “Scheme of financial assistance for setting up of Electronics and ICT Academies” by MeitY Gov of India from 24- 28 July, 2019.
- 4.** Attended Faculty Development Program two week on “ICT in Education for Rural/ Remote Area”, jointly organized by Electronics and ICT Academy, NIT Patna & Department of Computer Science, TERI, Ghazipur, UP under the “Scheme of

financial assistance for setting up of Electronics and ICT Academies” by MeitY Gov of India from 17 -26 August, 2019.

Paper Published in International and National Conferences and Journals (22)

Paper Published in International Conferences and Journals (11)

Year 2013

1. Paper title “Protection of Data Stored in Transparent Database System by Encryption”, published in journal “International Journal of Current Sciences and Technology”, 2013: 2(1): 68-71, ISSN 2278-6198.
2. Paper title “FDI in Retail Market: The Proxy Way of Using Game Theory by Multinational Companies in India Market”, published in International Transactions in Applied Sciences (*ITAS*), Association for Advancement in Combinatorial Sciences, 2013, ISSN Print: 0974- 7273, ISSN Online: 0975-3761.

Year 2014

3. Paper title “Query processing through Short Message from GSM Devices with Visual C++ Interface Using SQL Database”, published in journal “International Journal of Current Sciences and Technology”, Ch.12, (87-90), Vol-2, No-2, Dec 2013 ISSN: 2278-6198.
4. Paper tile “Game Theory Based Dynamic Bandwidth Allocation of Wireless Network”, publish in international journal “International Journal of Current Science and Technology”, Ch.6, pp.42-47, Vol. 3(1), June 2014, ISSN: 2278-6198.

Year 2016

5. Paper title “Neuro-Fuzzy Logic based Railway Unmanned Level Crossing Gate Operational and Monitoring System” in International Conference on Emerging Trends in Electrical, Electronics & Sustainable Energy Systems held at Department of Electrical and Electronic Engineering Kamla Nehru Institute Of Technology, Sultanpur, India, March 2016, ISBN: 978-93-85777-31-8.

Year 2017

6. Paper title “Optimizing Call Drops in Cellular Network using Artificial Intelligence based handover Schema”, published in international journal “International Journal of Advance Research in Computer Communication Engineering”, Ch.12, pp., Vol-6(1), No-2, January 2017, ISSN (online) : 2278-1021, ISSN (print): 2319-5940.

7. Paper title “Combined Strategy for Cellular Traffic Congestion Management” in International Journal of Emerging Research in Management & Technology, Vol. 6, Issue 8, August 2017, ISSN: 2278-9359.

8. Paper title “Secure and Smart Power Management Schema for Heterogenous Distributed Wireless Multimedia Sensor Networks” in International Journal of Advance Research in Computer Science, Volume 8, No. 8, Sept – Oct 2017, ISSN: 0976-5697.

Year 2017

9. Paper title “Implementing Security Services in VANET Using Cryptography Based on Artificial Neural Network” in “Journal of Computer and Mathematical Science”, Vol.10.(9), pp. 1573-1584, September 2019, ISSN 0976-5727(P), 2319-8133(O).

10. Paper title “Cooperative Game Theory Approaches to Manage Traffic Congestion in Wireless Network”, in “Bulletin of Pure and Applied Sciences Section E- Maths & Stat.”, BPAS-E-147-2019, pISSN-0970-6577, eISSN-2320- 3226, BAPS Vol. 38E, No. 2, Jul-Dec 2019.

Year 2022

11. Paper title “Approaches for Enhancing Security Using Agent-driven Authentication in Distributed Environment in Wireless Network”, in “ International

Journal of Research and Analytical Reviews (IJRAR)”, pISSN-2349-5138, e-ISSN-2348-1269, IJAR Vol. 9, Issue No. 4, Nov 2022.

12. Paper title “Cloud Mining based Congestion Control Block chain DB”, in “International Journal of Research and Analytical Reviews (IJSR)”, ISSN-2319-7064, SJIF- (2022): 7.942, IJSR Vol. 11, Issue No. 11, Nov 2022.

Paper Published in National Conferences and Journals (10)

Year 2012

1. Paper title “India Internal Security: Need of an e-force”, published National Conference on “Indian’s International Security Present and Future”, proceeding in book “Perspectives on Homeland Security”, in department of Defence & Strategic Studies, D.D.U.G.U., Gorakhpur, Ch. 25, pp.279-287, ISBN: 978-93-82171-01-0.

Year 2014

2. Paper title “Neural Network Cryptography”, published in National Conference proceeding book “Cyber Security: Challenges and Opportunities in 21st Century”, in department of Computer Science, D.D.U.G.U. Gorakhpur, Ch. 3, pp.30-37, ISBN: 978-81-7445-556-6.

3. Paper title “Neural Network Cryptography for Encrypting all Elements of Multimedia and Communication over Low Bandwidth Channels”, published in National Conference in book “Cyber Security: Challenges and Opportunities in 21st Century”, department of Computer Science, D.D.U.G.U. Gorakhpur, Ch. 5, pp.48-56, ISBN: 978-81-7445-556-6.

4. Paper title “Hand Character Recognition Using Artificial Neural Networks”, published in book “Cyber Security: Challenges and Opportunities in 21st Century”, department of Computer Science, D.D.U.G.U. Gorakhpur, Ch. 14, pp.143-162, ISBN: 978-81-7445-556-6.

5. Paper title “Enhancing Power Efficiency in Wireless Sensor Networks by Fuzzy Diffusion Logic”, published in National Conference proceeding on “Material Science and Technology” book “Material Science and Technology”, organized by Department of Applied Science, MMMT University, Gorakhpur, Ch. 19, pp.101-106, ISBN: 978-93-84224-01-1.

6. Paper title “Enhancing Performance of Power Consumption for Wireless Networks”, published in National Conference proceeding on “Material Science and Technology” book “Material Science and Technology”, organized by Department of Applied Science, MMMT University, Gorakhpur (UP), Ch. 20, pp.107-111, ISBN: 978-93-84224-01-1.

Year 2015

7. Paper title “Comparative Analysis of Bio-Inspired Intelligent Routing Protocols in Wireless Network”, published in National Conference Proceeding on “Recent Advances in Chemical and Materials Science” book “Recent Advances in Chemical and Materials Science”, organized by Department of Applied Science, MMMT University, Gorakhpur, Ch. 24, pp.95-99, ISBN: 978-93-84224-25-7.

8. Paper title “Securing Distributed by Intrusion Detection System published in National Conference Proceeding on “Recent Advances in Chemical and Materials Science” book “Recent Advances in Chemical and Materials Science”, organized by Department of Applied Science, MMMT University, Gorakhpur, Ch. 25, pp.100-103, ISBN: 978-93-84224-25-7.

9. Paper title “Genetic Algorithm Based Dynamic Optimal Routing Protocol for Wireless Ad-Hoc Network”, published in National Conference proceedings on “Recent Advancement in Communication Engineering and Microelectronics” book “Recent Advancement in Communication Engineering and Microelectronics”,

organized by department of Electronic and Communication Engineering, MMMT University, Gorakhpur, Ch. 12, pp.50-52, March 2015, ISBN: 978-93-84224-29-5.

Year 2016

10. Paper title “Minimizing Call Drop Rate in Cellular Wireless Network”, published in of National Conference proceeding “Recent Advancement in Communication and Microelectronics (RACEM-2016)” book “Recent Advancement in Communication and Microelectronics (RACEM-2016)” organized by department of Electronic and Communication Engineering, MMMT University, Gorakhpur, Ch. 50, pp. 82-186, March 2016, ISBN: 978-93-84224-26-2.