

CURRICULUM VITAE

DR. NANCY SINGLA

Assistant Professor (Senior Grade)

Department of Computer Science & Engineering and Information Technology

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ACADEMIC QUALIFICATION

Year	Class/Course	Institution	Marks Obtained
2017-2022	Ph. D, CSE	Punjab Engineering College (Deemed to be University), Chandigarh	-
2014-2016	ME, CSE (Information Security)	PEC University of Technology, Chandigarh	8.12 (CGPA)
2010-2014	B.Tech., CSE	S.D.D.I.E.T., Barwala, Panchkula. Affiliated to K.U.K.	76.7% (with Honors)
2009-2010	12 th Non-Medical, CBSE	K.B. D.A.V. Sr. Sec. Public School, Sector-7, Chandigarh.	76.6%
2007-2008	10 th CBSE	K.B. D.A.V. Sr. Sec. Public School, Sector-7, Chandigarh.	87.6%

SKILL SET

- Biometric Security
- Image Processing
- Machine Learning
- Operating System
- Data Structures

RESEARCH WORK

Ph.D. Research: Biometrics and Forensics - Framework for Separation and Reconstruction of Latent Fingerprints.

ME Thesis: Secure Fingerprint Fuzzy Vault Including Fast Chaff Point Generation Approach. Implemented using MATLAB.

WORK EXPERIENCE

- Worked as Assistant Professor in Computer Science & Engineering department at Chandigarh University from 14th January 2022 to 18th August, 2022.
- 4 years as Teaching Assistance during Ph.D. (July, 2017 to July, 2021) in Punjab Engineering College (Deemed to be University), Chandigarh.
- 1 year as Teaching Assistance during M.E. (July, 2015 to July, 2016) in Punjab Engineering College (Deemed to be University), Chandigarh.
- Worked as a Guest Faculty for 'Cyber Forensics and Cyber Laws' in Education and Training Department in CDAC-Mohali from 13th June, 2016 to 24th June, 2016.

PUBLICATIONS

- Nancy Singla, Manjeet Kaur, and Sanjeev Sofat. "Hybrid framework for identifying partial latent fingerprints using minutiae points and pores." *Multimedia Tools and Applications* (2022), Vol. 81: 19525-19542. (SCIE Indexed, IF-2.757).

- Nancy Singla, Manvjeet Kaur, and Sanjeev Sofat. "Automated latent fingerprint identification system: A review." *Forensic Science International* (2020), Vol. 309: 110187. **(SCI Indexed, IF-2.395)**.
- Nancy Singla, Manvjeet Kaur, and Sanjeev Sofat. "Latent Fingerprint Database Using Reflected Ultra Violet Imaging System." *Procedia Computer Science* 167 (2020): 942-951. **(Scopus Indexed, IF-0.88)**.
- Nancy Singla, Sanjeev Sofat, and Manvjeet Kaur. "Neoteric chaff generation method of fingerprint fuzzy vault." *Turkish Journal of Electrical Engineering & Computer Sciences* (2017), Vol. 25(6): 4722-4733. **(SCIE Indexed, IF-0.806)**.
- Nancy Singla, Manvjeet Kaur, and Sanjeev Sofat. "Secure fingerprint fuzzy vault including novel chaff point generation method." 2017 International Conference on Computing, Communication and Automation (ICCCA). IEEE, 2017. **(Scopus Indexed)**.

CONFERENCES AND COURSES ATTENDED

- Faculty Development Programme on Research Essentials at Chandigarh University from 31st January, 2022 to 5th February, 2022.
- Faculty Development Programme on Research Trends in Data Analytics, Information Security and its Applications at Chandigarh University from 9 March, 2022 to 13th March, 2022.
- Faculty Development Programme on Advanced Trends for Research at Chandigarh University from 11th April, 2022 to 15th April, 2022.
- A paper titled, 'Latent Fingerprint Database Using Reflected Ultra Violet Imaging System' presented in the conference 'International Conference on Computational Intelligence and Data Science' (ICCIDS 2019) held at The NorthCap University, Gurugram (6th -7th September, 2019).
- Summer School on Machine Learning at IIIT Hyderabad from 8th July, 2019 to 13th July, 2019.
- Faculty Development Programme on Machine Learning & its Applications at IIT Roorkee from 1st February, 2018 to 5th February, 2018.
- IFIP International Conference on Digital Forensics at New Delhi from 3rd January, 2018 to 5th January, 2018.
- A paper titled, 'Secure fingerprint fuzzy vault including novel chaff point generation method' presented in the conference 'International Conference on Computing, Communication and Automation (ICCCA)', IEEE, held at Galgotias University, Greater Noida (5th – 6th May, 2017).

OTHER DETAILS

- UGC NET Qualified (2021)
- Gate Qualified (2016)
- Languages Known: English, Hindi, Punjabi

NANCY SINGLA