

Dr Pradeep R

Affiliation (Asst Professor, Dept of ISE, SIT)

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Education

	Degree	Year	Institute	Specialization
1	PhD	2025	Siddaganga Institute of Technology	Computer Science
2	MTech	2014	Visvesvaraya Technological University, Belagavi	Computer Networks
3	BE	2012	Visvesvaraya Technological University, Belagavi	Information Science and Engineering

Professional Experience

	Date (from-to)	Designation	Organization
1	01-01-2026 – to present	Assistant Professor	Siddaganga Institute of Technology
1	2025-Mar-2025-Dec	Assistant Professor	Sri Siddhartha Institute of Technology
2	2019-August-Jan-2025	Software Engineer-3	THALES
3	2017-2019	Research Assistant	Siddaganga Institute of Technology
4	2015-2017	Assistant Professor	Siddaganga Institute of Technology

(Please fill in reverse order. Current designation should be at the top)

Positions held

(Please give details of any administrative posts, co Ordinator roles/ responsibilities held)

Affiliations of Professional organizations

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Awards and Honors

- THALES Bravo Award for outstanding performance at ADANI Digiyatra Project.
- Received Employee Quarterly Recognition Awards 2 times from THALES.

Courses Taught

Undergraduate Courses

- C++, C programming, Software Engineering, Identity and Access Management.
- Java, Python, operating systems, Cryptography.

Postgraduate Courses

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Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion

Research Areas

- Formal Verification
- Block Chain
- Biometrics
- Security

Sponsored Projects

Ongoing Projects:

1. Title:
Funding Agency:
Amount:
Duration:
Role:

2. Title:
Funding Agency:
Amount:
Duration:
Role:

Completed Projects:

1. Title:
Funding Agency:
Amount:
Duration:
Role:
2. Title:
Funding Agency:
Amount:
Duration:
Role:

Publications

Journals

1. Pradeep R., N. R. Sunitha, G. S. Thejas, "A Modern Mechanism for Formal Analysis of Biometric Authentication Security Protocol", *International Journal of Computer Network and Information Security (IJCNIS)*, Vol.15, No.3, pp.15-29, 2023. DOI:10.5815/ijcnis.2023.03.02
2. Pradeep R, Sunitha NR. (2022) A Reliable Block-Chain Based Biometric Authentication Solution for Aadhar. *Indian Journal of Science and Technology*. 15(41):2115-2120.
3. "Formal Verification of Forward-Secure Authenticated Key Exchange Scheme for Location-Based Service Application." *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, vol. 9, no. 2S, Dec. 2019, pp. 129–136. DOI: 10.35940/ijitee.B1073.1292S19
4. Rajanna, Pradeep, and Nagarajaiah Renukamba Sunitha. "Security Analysis of Biometric Verification Protocol Using Scyther Model Checker: A Case Study." *CURRENT APPLIED SCIENCE AND TECHNOLOGY* (2023): e0257532-e0257532. <https://doi.org/10.55003/cast.2025.257532>
5. An Optimised Students Biometric Based Attendance System using Block-Chain. *SERBIAN JOURNAL OF ELECTRICAL ENGINEERING*. DOI: <https://doi.org/10.2298/SJEE240805002R> 2025

Conference Proceedings

- R. Pradeep, N. R. Sunitha, V. Ravi and S. Verma, "Formal Verification of Authentication and Confidentiality for TACACS+ Security Protocol using Scyther," *2019 10th International Conference on Computing, Communication and Networking Technologies (ICCCNT)*, Kanpur, India, 2019, pp. 1-6, doi: 10.1109/ICCCNT45670.2019.8944623.
- V. Ravi, N. R. Sunitha, R. Pradeep and S. Verma, "Formal methods to verify authentication in TACACS+ protocol," *2017 2nd International Conference On Emerging Computation and Information Technologies (ICECIT)*, Tumakuru, India, 2017, pp. 1-4, doi: 10.1109/ICECIT.2017.8453431.
- Pradeep, R., and N. R. Sunitha. "Formal Verification of CHAP PPP authentication Protocol for Smart City/Safe City Applications." *Journal of Physics: Conference Series*. Vol. 2161. No. 1. IOP Publishing, 2022.

Book Chapters

- Pradeep, R., Sunitha, N.R., Ravi, V., Verma, S. (2020). A Framework for Formal Verification of Security Protocols in C++. In: Ranganathan, G., Chen, J., Rocha, Á. (eds) *Inventive Communication and Computational Technologies. Lecture Notes in Networks and Systems*, vol 89. Springer, Singapore. https://doi.org/10.1007/978-981-15-0146-3_17

Books

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Editorial

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Reviewer of Journals

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(Please give details in IEEE format)

Editor/ Reviewer of Journal

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Patents

- [202541120548](#)
- [202541120547](#)

Invited Lectures, talks and workshops

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