

PUBLICATIONS:

I. IN THE PEER REVIEWED JOURNALS:

1. Sahadeo Padhye, *Partial Known Plaintext Attack on Koyama Scheme*. Information Processing Letters, Vol.96 No.3 pp. 96-100 (2005). **(SCI Journal, Impact Factor – 0.5). Elsevier Journal**
2. Sahadeo Padhye, *A Signature Scheme Based on Singular Cubic Curve*, International Journal of Mathematical Science. Vol.4, No.2, pp.261-266 (2005).
3. Sahadeo Padhye, *A Fast RSA Type Signature Scheme*, Varahmihir Journal of Computer and Information Science, Vol.1 No.1 pp.80-82 (2006).
4. Sahadeo Padhye and B.K.Sharma, *A Fast Semantically Secure Public key Cryptosystem Based on Singular Cubic Curve*. International Journal of Network Security, Vol.3, No. 2, pp.164-170, Sept. 2006. **(SCImago Journal)**
5. Sahadeo Padhye , *On D-RSA Public Key Cryptosystem*. International Arab Journal of Information Technology, Vol 3, No.4 pp.336-338, October (2006). **(SCI & SCOPUS Journal, Impact Factor- 1.2)**
6. Sahadeo Padhye , *Cryptanalysis of Koyama Scheme*. International Journal of Network Security, Vol.2, No.1, pp.73-80, January (2006). Publisher-National Chung Hsing University, Taiwan **(SCImago Journal)**
7. Sahadeo Padhye and Navaneet Ojha, *Fast RSA Type Cryptosystem*. International Journal of Computer Science and Information Technology, Vol.3 no. 1, June 2010, pp. 93-94. Serial Publication.
8. Rajeev Anand Sahu and Sahadeo Padhye, *ID-Based Digital Signature Scheme from Bilinear Pairing: A Survey*, Frontiers of Electrical and Electronic Engineering in China Vol.6, No. 4, pp. 487-500, December, 2011. Springer Publication.
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11. Shivendu Mishra, Rajeev Anand Sahu and Sahadeo Padhye, *An Efficient Multi Proxy System for Proxy Signature Scheme*. Journal of Information Security Research, Vol. 2 No. 1, pp.1-12, March 2011.DLINE Journal.
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13. Navaneet Ojha and Sahadeo Padhye, *Another Generalization of Weak Keys in RSA With Prime Sharing LSBS*, Applied Mathematical Sciences, Vol. 6, no. 7, 309 – 318, January 2012. HIKARI Ltd.
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15. Debiao He, Sahadeo Padhye and Jianhua Chen, *An Efficient Certificate Less Two Party Authenticated Key agreement Protocol*. Computer and Mathematics with Application 64(6): 1914-1926 September (2012). Elsevier Publication (**SCI & Scopus Journal, Impact Factor-2.5**)
16. Navaneet Ojha and Sahadeo Padhye, *Weak Keys in RSA Over the Work of Blomer & May*, International Journal of Network Security Vol. 14, No. 2, March 2012, pp. 80-85. National Chung Hsing University, Taiwan (**SCIImago Journal**)
17. Namita Tiwari and Sahadeo Padhye, *Provable Secure Proxy Signature Scheme Without Bilinear Pairing*, International Journal of Communication Systems; April 2013 vol. 26, Issue. 5, pp. 644-650. Wiley Publication (**SCI & SCOPUS Journal, Impact Factor 1.8**)
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28. Sonika Singh and Sahadeo Padhye, Generalization of NTRU Cryptosystem, Security and Communication Network. Volume 9, Issue 18, December 2016, Pages: 6315–6334 (Wiley Publication) (**SCI Journal, Impact Factor- 1.9**).
29. Sonika Singh and Sahadeo Padhye, MaTRU-KE: A Key Exchange Protocol Based On MaTRU Cryptosystem. International Journal of Communication System, 2018 : Vol. 32(4), pp. e3886, 1-16 (**SCI & SCOPUS Journal, Impact Factor 1.8**) (10-03-2019)
30. Swati Rawal and Sahadeo Padhye, Cryptanalysis of ID Based Proxy-Blind Signature Scheme. ICT Express , Vol 6(1), pp. 20-22, 2020. (Elsevier Publication), (Online 03-06-2019, Published 01-03-2020) (**SCOPUS Journal, Impact Factor 4.2**)
31. Sonika Singh and Sahadeo Padhye , Identity based Blind Signature Scheme over NTRU Lattices. Information Processing Letters, Vol. 155 (2020), pp. 1-3. 105898 (Accepted , Nov 2019, Published -1-03-2020). (**SCI Journal, Impact Factor – 0.5**). Elsevier Journal
32. Swati Rawal, Sahadeo Padhye and Debiao He, Lattice Based Undeniable Signature Scheme Annals of Telecommunications (Accepted, 24 March 2021) Vol. 77, pp.119–126 (2022) (**SCI Journal, Impact Factor 1.9**). Springer Journal
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- 6:1 Ramakant Kumar, Sahadeo Padhye, A Lattice Based Single Share Secret Sharing Scheme, SN Computer Science, (2023) 4:811 pp.1-10 (Accepted 24-08-2023) (**SCOPUS Journal, Impact Factor 1.2**), Springer journal.
- 6;1 Prashanta Majee, Sonu Bai, and Sahadeo Padhye, Inertial Mann Type Algorithms For A Finite Collection Of Equilibrium Problems And Fixed Point Problem of Demicontractive Mappings The Journal of Analysis, Vol. 32, pp. 447-469, 2024. (Published: 24 September 2023) (**SCOPUS Journal, Impact Factor 0.8**) , Springer Journal.
39. Prashanta Majee, Sonu Bai, and Sahadeo Padhye, On Some Novel Methods for Generalized Fermat-Torricelli Problem in Hilbert Spaces. Results in Mathematics, Vol 79, Vol. 1, Article No. 5, pp. 1-35 . 2024 (21 October 2023) (**SCI Journal, Impact Factor 1.2**) Springer Journal.
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43. Rohit Kumar R Upadhyay, Sahadeo Padhye, Advancements in Fully Homomorphic Encryption over the Integers: A Comprehensive Survey and Analysis. Surveys in Mathematics and its Applications Volume 19 (2024), 245 – 299 (December 3-2024) (**Scopus Journal**) (**Q3, Impact Factor 0.45**)
44. Ramakant Kumar, Sahadeo Padhye, Cryptanalysis of a Lattice Based Multi-signature Scheme, National Science Academy Letters, 2024 <https://doi.org/10.1007/s40009-024-01583-1> (Published 06-12-2024) (**SCI Journal, Impact Factor 1.2**), Springer Journal.
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47. Sonika Singh, Swati Rawal, Sahadeo Padhye, Namita Tiwari, Identity based Proxy Blind Signature Scheme Using NTRU Lattices. Information and Computation. Vol. 304 (2025) 105284 (**SCI Journal, Impact Factor 1.0**) (accepted 19-02-2025) Online ISSN: 1090-2651
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50. Swati Rawal, Sahadeo Padhye, Ramakant Kumar and Debiao He. Lattice Based Signatures with Additional Functionalities. Surveys in Mathematics and its Applications, Vol. 20 (2025), pp. 267-317. (Accepted May 19, 2025) (**Scopus Journal, IF 0.45**)
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53. Rohitkumar R Upadhyay, Sahadeo Padhye, Vishal Saraswat. A Non-Interactive and Dynamic Multi-Party FHE Scheme Based on FHEW. Peer to Peer Networking and Applications. Vo. 18, Article No. 313, pp. 1-12, 2025. (Accepted 15-08-2025, **SCI Journal ,, IF 2.6**)

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II. IN THE PROCEEDING OF PEER REVIED CONFERENCES/BOOK CHAPTERS

PROCEEDING OF PEER REVIED CONFERENCES

1. Sahadeo Padhye, *Cyclic Attack on RSA Type Cryptosystem Based on Singular Cubic Curve*. Proceeding of International Conference on Discrete Mathematics And Its Application. Norosa Publishing House Pvt. Ltd. ISBN 81-7319-731-8, Editor- M. Sathumadhavan, pp. 120-130 (2006). Dec.09-11, 2004, Amrita Institute of Technology, Coimbatore Tamilnadu (India).

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9. Sahadeo Padhye and Namita Tiwari, *Efficient ID-Based Proxy Blind Signature with Pairing Free Realization*. Proceeding of 3rd International Conference on Innovative Engineering Technology (ICIET'2016) pp.40-43, 2016. August 5-6, 2016. Rajamangala University of Technology Thanyaburi, Bangkok, Thailand. ISBN- ISBN 978-93-84468-65-1. (Published by IIE)

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32. Ramakant Kumar, Sahadeo Padhye, and Swati Rawal; *Cryptanalysis of Short and Provable Secure Lattice-Based Signature Scheme*, In Francesco Regazzoni, Bodhisatwa Mazumdar, Sri Parameswaran (eds) *13th International Conference on Security, Privacy, and Applied Cryptographic Engineering (SPACE 2023)*, 14-17 December 2023, IIT Roorkee. *Lecture Notes in Computer Science (LNCS)* Vol. 14412, pp. 86-91, 2023, Springer Book Series. <https://doi.org/10.1007/978-3-031-51583-5>, ISBN 978-3-031-51583-5 (December 2023).
33. Rohitkumar R Upadhyay and Sahadeo Padhye, *Enhancing FHE over Integers: Beyond Binary Numbers and Batch Processing*. In: Chaturvedi, A., Hasan, S.U., Roy, B.K., Tsaban, B. (eds) *Cryptology and Network Security with Machine Learning. ICCNSML 2023. Lecture Notes in Networks and Systems*, vol 918, pp. 317-327. Springer, Singapore. https://doi.org/10.1007/978-981-97-0641-9_22, ISBN: 978-981-97-0641-9 (April 2024).
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IV. IN THE EPRINT ARCHIVE

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