

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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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.
14. Rajeev Anand Sahu and Sahadeo Padhye, *Efficient ID-based Proxy Multi-Signature Scheme in Random Oracle*. Frontiers of Computer Science , 6(4): 421-428, August (2012). Springer Publication. **(SCI & Scopus Journal, Impact Factor 4.2)**
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-2.9)**
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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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23. Sahadeo Padhye and Namita Tiwari, ECDLP based Certificate-less Proxy Signature scheme with Message Recovery. *Transactions on Emerging Telecommunications Technologies*, Vol. 26, Issue 3, pp. 346-354, March 2015 .Wiley Publication. **(SCI & SCOPUS Journal, Impact Factor 3.3)**.
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26. Namita Tiwari and Sahadeo Padhye, Provable Secure Multi-Proxy Signature Scheme Without Bilinear Maps. *International Journal of Network Security*. Vol.17, No.6, PP.736-742, Nov. 2015 **(SCImago Journal)**
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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 5.4)**
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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34. Satyam Omar, Sahadeo Padhye, and Dhananjay Dey ,*Cryptanalysis of Multivariate Threshold Ring Signature Schemes*, *Information Processing Letters*, Vol 181, Article 106357, pp. 1-5, 2023 (Accepted , Dec 2022, Published -1-03-2023). **(SCI Journal, Impact Factor – 0.5)**. Elsevier Journal
35. Satyam Omar, Sahadeo Padhye, and Dhananjay Dey, Anonymous Proxy Signature Scheme Based on Multivariate Polynomials over Finite Field. *Journal of Algebra and its Applications*, 2024, 2450156, pp. 1-21. (Accepted March 09-2023) **(SCI Journal, Impact Factor 0.8)**, World Scientific Publishing.

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36. Satyam Omar, Sahadeo Padhye, and Dhananjoy Dey, A Multivariate Convertible Group Signature Scheme. *SN Computer Science* (2023) 4:735 pp. 1-12. 5 (Accepted 02-07-2023) (**SCOPUS Journal, Impact Factor 1.2**), Springer journal.
<https://doi.org/10.1007/s42979-023-02112>.
 37. 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.
 38. 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 <https://doi.org/10.1007/s41478-023-00660-w>, (Accepted: 24 August 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*, (Accepted 26-09-2023) (**SCI Journal, Impact Factor 02.2**) Springer Journal.
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II. IN THE PROCEEDING OF PEER REVIED CONFERENCES/BOOK CHAPTERS

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). ISBN - 81-7319-731-8
2. Sahadeo Padhye , *A Rabin Type Scheme Based on Singular Cubic Curve*. Proceeding of the 9th National Workshop on Cryptology under India Mathematics Year-2009, Aug 7-9, 2009. pp.34-36. SVNIT Surat, India.
3. Rajeev Anand Sahu and Sahadeo Padhye, *An ID-Based Multi Proxy Multi-Signature Scheme*. Proceeding of IEEE International Conference on Computer & Communication Technology ICCCT-2010, pp. 60-63, 2010. Sept. 17-19, 2010 MNNIT, Allahabad, India. ISBN- 978-1-4244-9031-8
4. Navneet Kumar Ojha and Sahadeo Padhye, *The Additional Result Over The Work of Blomer and May*, Proceeding of IEEE International Conference on Computer & Communication Technology ICCCT-2010 , pp. 75-80, 2010. Sept. 17-19, 2010 MNNIT, Allahabad, India. ISBN- 978-1-4244-9031-8
5. Rajeev Anand Sahu and Sahadeo Padhye, *ID-based multi-proxy multi-signature scheme from bilinear pairing*, Proceedings of 5th International Conference of Computer Engineering Applications (CEA'11), 2011 pp. 43-48. WSEAS Press Puerto Morelos, Mexico. Jan. 29-31, 2011. ISBN- 978-960-474-270-7
6. Shivendu Mishra, Rajeev Anand Sahu, Sahadeo Padhye and R.S. Yadav, *An ID-Based Signature Scheme From Bilinear Pairing Based on k-plus Problem*. Proceeding of IEEE 3rd International Conference on Electronics Computer Technology (ICECT 2011), pp. 104-107, 2011. April 8-10, 2011 Kanyakumari India. **ISBN- 978-1-4244-8678-6**
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 11. Swati Rawal and Sahadeo Padhye, Threshold Ring Signature with message block sharing. In Proceeding of 2nd ISEA Conference on Security and Privacy (ISEA-ISAP 2018), January 9-11, 2019, Malaviya National Institute of Technology Jaipur, India. Springer book Communications in Computer and Information Science CCIS Vol. 939, pp.261-274, 2019, Springer Nature, Singapur. ISBN-979-981-13-7560-6. Springer Nature Singapur Pte Ltd..
 12. Swati Rawal and Sahadeo Padhye , Untraceability of partially blind signature scheme over lattices, The 15th International Conference on Information Security and Cryptology Nanjing, China | December 6-8 2019. In Z. Liu and M. Yung (Eds.), Information Security and Cryptology, Lecture Notes in Computer Science (LNCS), Vol. 12020, pp. 452–459, 2020. ISBN 978-3-030-42921-8, Springer Nature Switzerland AG 2020.
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 14. Satyam Omar, Sahadeo Padhye and Dhananjoy Dey, A New Identity-Based Multivariate Signature Scheme, 7th International conference on Mathematics and Computing, March 2-5, 2021, IEST, Shibpur, West Bangal. In: Giri D., Raymond Choo KK., Ponnusamy S., Meng W., Akleyek S., Prasad Maity S. (eds) Proceedings of the Seventh International Conference on Mathematics and Computing. Advances in Intelligent Systems and Computing, vol 1412, pp 79-91, 2022. Springer, Singapore. https://doi.org/10.1007/978-981-16-6890-6_7. ISBN: 978-981-16-6890-6. (Jan 2022)
 15. Swati Rawal and Sahadeo Padhye, A Post Quantum Signature Scheme for Secure User Certification System. Proceeding of 6th International Conference Information, Communication & Computing Technology (ICICCT-2021), On May 08 , 2021, Saturday, JAGAN INSTITUTE OF MANAGEMENT STUDIES (JIMS) Sector-5, Rohini, Delhi-110085New Delhi, India. In Mahua Bhattacharya Latika Kharb Deepak Chahal (Eds.), Information and Communication Technology, Communications in Computer and Information Science (CCIS) book series, Volume 1417, pp. 52-62, 2021. ISBN- 978-3-030-88378-2. Springer Nature Switzerland. (Oct 2021)
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31. Ramakant Kumar, Sahadeo Padhye, and Swati Rawal; *Cryptanalysis of Short and Provable Secure Lattice-Based Signature Scheme*, 13th International Conference on Security, Privacy, and Applied Cryptographic Engineering SPACE 2023, 14-17 December 2023, IIT Roorkee. Proceeding to be published by LNCS Springer Book Series. (Accepted 29-10-2023)

IV. IN THE EPRINT ARCHIVE

INTERNATIONAL ASSOCIATION OF CRYPTOLOGIC RESEARCH:

1. Sahadeo Padhye, *A Public Key Cryptosystem Based on Singular Cubic Curve*. Eprint Archive-2005/109, <http://eprint.iacr.org/2005/109.pdf>.
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6. Swati Rawal, Sahadeo Padhye and Debiao He *Lattice Based Signatures with Additional Functionalities*. Eprint ArArchive 2023/478. <https://eprint.iacr.org/2023/1882>

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1. R Pandey, S Padhye, *Extended Generalized Flett's Mean Value Theorem*, arXiv preprint: arXiv:1604.07248, Cornell University.