List of Publications

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SHIVENDU MISHRA   **Email: shivendu@recabn.ac.in,**
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M.Tech (Information Security, from MNNIT Allahabad),
Pursuing Ph.D. (CSE Dept. of IIT Patna)
Area of Research: EV Charging/Discharging, IOT, WSN,
Cryptography: ID-Based Digital Signature and Proxy Signature,
Wi-MAX Security, Service oriented architecture.

Patent/Book/Book Chapter/Journal/Conference Publications [35]

Patent Published [02]

1. System for Premise Security using IOT Sensor and Machine Learning. Patent No: 202022101451, date of registration 18-03-2022, Federal Republic of German, date of award: 03-05-2022.
2. System of effective keeper-based domino circuit for low power application. Patent No: 2022/09261, date of registration 18-08-2022, Republic of South Africa, date of award: 30-11-2022

Book Published [01]

1. "SOA Security Framework Design and Implementation", Lambert Academic Publishing. ISBN: 978-620-0-27913-2.

Book Chapter Published [04]:

1. Shivendu Mishra with Prince Rajpoot et al. (2021) a Comparative Study of Heuristics and Meta-heuristic Algorithms with Issues in WSN. In: Gunjan V.K., Zurada J.M. (eds) Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications. Advances in Intelligent Systems and Computing, Vol 1245. Springer, Singapore. https://doi.org/10.1007/978-981-15-7234-0_48.

2. Shivendu Mishra with Ritika Yaduvanshi et al., "**A Security Framework for Service Oriented Architecture Based on Kerberos**", In Proc. of Computational Intelligence, Communications and Business Analytics in Computer Science and Engineering (CICBA-2018)", Communications in Computer and Information Science, vol 1031, pp. 402-410, Springer, Singapore **(Scopus Index)**

3. Shivanshu Pandey, Prince Rajpoot, Ritika Yaduvanshi, Shivendu Mishra, "An Introduction to Microgrids Concept and Architecture". Microgrid Design, Optimization, and Applications Edited By AMIT KUMAR PANDEY, Sanjeevikumar Padmanaban, Suman Lata Tripathi, Vivek Patel, Vikas Patel, ISBN 9781032565767, CRC.

4. Prashant kumar, Adit Srivastava, Prince Rajpoot, Ritika Yaduvanshi, Shivendu Mishra "Intelligent Based charging system". Microgrid Design, Optimization, and Applications Edited By AMIT KUMAR PANDEY, Sanjeevikumar Padmanaban, Suman Lata Tripathi, Vivek Patel, Vikas Patel, ISBN 9781032565767, CRC.

Journal Papers [16]:

1. Shivendu Mishra with Anurag Chaubey et.al. "Smart Homes, Smart Choices: Using Big Data to Boost Energy Efficiency and Environmental Sustainability" Electric Power Components and Systems, Taylor & Francis, **Accepted SCIE- Impact factor: 1.5.**

2. Shivendu Mishra, Anurag Chaubey et.al. "An Innovative Multi-Head Attention Model with BiMGRU for Real-Time Electric Vehicle Charging Management through Deep Reinforcement Learning" Cluster Computing, Springer, **Accepted SCIE- Impact factor: 4.4.**

3. Shivendu Mishra et.al. An Integrated Deep-Learning Model for Smart Waste Classification, Environmental Monitoring and Assessment, **(SCIE-Impact factor- 3.0).**

4. Shivendu Mishra with Ritika Yaduvanshi, (2023). A lightweight, efficient, and secure identity-based authentication scheme for underwater green transport systems. Annals of Telecommunications, 1-22. **(SCIE-Impact factor- 1.9).**

5. Shivendu Mishra with Prince Rajpoot et al., "A Smart Crop, Irrigation System, and Fertilizer Prediction Using IoT and Machine Learning", Int. J. of Global Warming. Accepted 2023. **(SCIE-Impact factor- 0.972).**

6. Shivendu Mishra with Prince Rajpoot et al. "Disease Detection in Different Plants to Save Environment Using IOT, Image Processing and Machine Learning: A Review" Int. J. of Global Warming. Accepted April, 2023 **(SCIE-Impact factor- 0.972).**

7. Mishra, Shivendu & Yaduvanshi, Ritika & Dubey, Kumkum & Rajpoot, Prince. (2021). ESS-IBAA: Efficient, short, and secure ID-based authentication algorithm for wireless sensor network. International Journal of Communication Systems. 34. 10.1002/dac.4764 **(SCI-Impact factor: 2.047).**

8. Shivendu Mishra with Ritika Yaduvanshi et al. **"Effect of Social Distancing on Coronavirus Disease 2019 Spread Controlling: A Mathematical Modeling"** Asian Pacific Journal of Health Sciences (APJHS), Vol. 8(1), 2021 (NAAS Rating 4, 19).

9. Shivendu Mishra with Sweta Tiwari et al. **"Review on energy consumption of the sorting algorithms and involvement of programming languages"** Test Engineering and Management *ISSN: 0193-4120 Page No. 7033 - 7041*, 2020 (**Scopus index journal)**.

10. Shivendu Mishra with Ritika Yaduvanshi et al. **"VANET: Attacks and privacy-preserving protocols",** International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE), Vol. 8(07), ISSN 2319-5940, 2019 (NAAS Rating 3.45).

11. Shivendu Mishra with Krishna Verma et al. "**A Study on VANET and its Security Issues**", International Journal of Recent Sci Res. (IJRSR). Vol. 10(06), pp. 33298-33303, 2019 (NAAS Rating 3.65).

12. Shivendu Mishra with Nimisha Yadav et al. "**To Study the Effect of Convection and Electric Field Load Parameter On Mhd Couette Flow Past a Channel with Highly Permeable Bed",** Journal of Emerging Technologies and Innovative Research (JETIR). Vol.06, March-2019 (UGC-Approved).

13. **Shivendu Mishra,** Rajeev Anand Sahu, and Sahadeo Padhye, "**An efficient Multi-proxy system for Proxy signature scheme," DLINE Journal** of Information Security Research, Vol. 2, No. 1, 2011.

14. **Shivendu Mishra**, Ritika Yaduvanshi, Anjani Kumar Rai and Nagendra Pratap Singh**," An ID-Based Signature Scheme from Bilinear Pairings Based on ex-k-plus Problem**," Journal of Advanced Materials Research, Vol. 403-408, pp. 929- 934, 2011(**Scopus index**).

15. Shivendu Mishra with Anjani K. Rai and Vimal Kumar, "**An Improved Password Based EAP Method for WiMAX with Formal Verification**," International Journal of Computer Science and Applications (IJCA), Vol. 8, pp. 29-35, 2011.

16. Shivendu Mishra with Anjani K.Rai and Vimal Kumar," **Strong Password based EAP-TLS Authentication Protocol for WIMAX**", International Journal on Computer Science and Engineering. Vol. 02, No. 08, pp. 2736-2741, 2010 (UGC-Approved).

Conference Proceedings [12]:

1. Shivendu Mishra and Rajiv Misra "Delay Analysis for P2P Systems Using LPWAN. In Misra R., Kesswani N., Rajarajan M., Bharadwaj V., Patel A. (eds) Internet of Things and Connected Technologies. ICIoTCT 2020. Advances in Intelligent Systems and Computing, vol 1382. Springer, Cham (2021). https://doi.org/10.1007/978-3-030-76736-5_10

2. Shivendu Mishra with Akash Kumar Maurya et al. "Relative Distance Based Fuzzy Clustering Approach for Wireless Sensor Networks", Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019 (ICAEESE2019), IEEE Xplore publication **(In Press).**

3. Shivendu Mishra with Rohit Kumar et al. "Energy Distribution based Cluster Head Selection to Enhance the Lifetime of WSN", Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019 (ICAEESE2019), IEEE Xplore publication **(In Press).**

4. Shivendu Mishra with Kumkum Dubey et al. "Optimization of Data Collection process in Heterogeneous WSN using Fuzzy and Multi-Attribute based Load Balancing Approach", Second International Conference on Advances in Electrical, Electronic and System Engineering, 2019 (ICAEESE2019), IEEE Xplore publication **(In Press).**

5. Shivendu Mishra with Prince Rajpoot et al. "An enhanced approach for energy optimization using a protocol based on multi factors", 3rd IEEE Technically Sponsored International

Conference on Computing Methodologies and Communication (ICCMC 2019) **(Scopus Index).**

6. Shivendu Mishra with Kumkum Dubey et al. "Load Balanced Clustering protocol for lifetime enhancement of WSN", 3rd IEEE Technically Sponsored International Conference on Computing Methodologies and Communication (ICCMC 2019) **(Scopus Index).**

7. Shivendu Mishra with Ritika Yaduvanshi**,** "**An Efficient and Secure Pairing Free Short ID-Based Signature Scheme over Elliptic Curve**", In Proc. Of 2nd International Conf. on Advanced Computing and Software Engineering (ICACSE-19) at KNIT, Sultanpur, UP, India, Elsevier SSRN **(Scopus Index).**

8. Shivendu Mishra with Ashish Kr. Mishra et al. "**A Subjective Trust Management System in Multi-Cloud Environment**" in Proceedings of Confluence-2019: 9th IEEE International Conference **(Scopus Index).**

9. **Shivendu Mishra**, Rajeev Anand Sahu, Sahadeo Padhye and Rama Shankar Yadav," **An ID-based signature scheme From Bilinear Pairing Based on k-plus Problem**," In Proc. 3rd International Conf. on Electronics Computer Technology (ICECT- 2011), Kanyakumari, India, IEEE, Vol. 6, pp. 104-107, 2011.

10. **Shivendu Mishra**, Rajeev Anand Sahu, Sahadeo Padhye and Rama Shankar Yadav, "**Efficient ID-based multi-proxy signature scheme from bilinear pairing based on the k-plus problem**," In Proc. International Conf. on Integrated Computing Technology(INTECH2011) Brazil south, CCIS, Springer, Vol. 165, pp. 113-122, 2011.

11. Shivendu Mishra with Anjani K. Rai and Vimal Kumar, "**An Efficient Password Authenticated Key Exchange Protocol for WLAN and WiMAX**," In Proc. of International Conf. & Workshop on Emerging Trends in Technology (ICWET '11) Mumbai India, ACM, pp. 881-885, 2011.

12. Shivendu Mishra with Anjani K. Rai and Pramod Narayan Tripathi, "**An Improved Secure Authentication Protocol for WiMAX with Formal Verification**," In Proc. International Conf. on Advances in Computing and Communication (ACC-2011), Kochi, India, CCIS, Springer, Vol. 191, pp. 407-416, 2011

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