

RESUME

Dr. Saru Kumari

CONTACT DETAILS

Department of Mathematics
CCS University, Meerut
25004, U. P., India

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RESEARCH INTERESTS: Cryptography, Network Security, Information Security.

EDUCATION

M. Sc, M. Phil, Ph. D.

TEACHING EXPERIENCE

1. *Assistant Professor* (March 2015---)
CCS University, Meerut, Uttar Pradesh, India
2. *Assistant Professor* (June 2010 –March 2015)
Agra College, Agra, Uttar Pradesh, India
3. *Assistant Professor* (April 2010 – 2010)
Vijay Singh Pathik (Post Graduate) Govt. Degree College, Kairana, Muzaffarnagar, India
4. *Lecturer* (March 2006 –April 2010)
Government Polytechnic, Firozabad, India

SUMMARY OF PUBLICATIONS

Total Publications: 55

- Publications in SCI-Indexed Journals: **42**
- Publications in Non-SCI-Indexed International Journals: **5**
- Publications in Non-SCI- Indexed National Journal: **1**
- Publications in International Conferences: **9**
- Publications in National Conferences: **1**
- h-index: **13**
- i10 index: **16**
- Citations: **458**
- Scopus Author ID: **48361454000**

OTHERS

1. Qualified the **National Eligibility Test (NET)**, organized jointly by the Council of Scientific and Industrial Research (CSIR) and the University Grant Commission (UGC) New Delhi, in 2001.

COMPLETE LIST OF PUBLICATIONS

Paper Published in International Journals

- 1) Vanga Odelu, Ashok Kumar Das, Y. Sreenivasa Rao, **Saru Kumari**, Muhammad Khurram Khan, and Kim-Kwang Raymond Choo. "Pairing-based CP-ABE with constant-size ciphertexts and secret keys for cloud environment," Accepted in *Computer Standards & Interfaces (Elsevier)*, 2016. **(SCI, Impact Factor: 0.879) (SNIP: 1.45) (SJR: 0.74)**
- 2) **Saru Kumari**, Xiong Li, Fan Wu, Ashok Kumar Das, Hamed Arshad, and Muhammad Khurram Khan. "User friendly mutual authentication and key agreement scheme for wireless sensor networks using chaotic maps," Accepted in *Future Generation Computer Systems (Elsevier)*, DOI:10.1016/j.future.2016.04.016, April 2016. **(SCI-E, Impact factor: 2.786) (SNIP: 5.1) (SJR: 2.15)**
- 3) Fan Wu, Lili Xu, **Saru Kumari**, Xiong Li, Ashok Kumar Das, Muhammad Khurram Khan, Marimuthu Karuppiah, and Renuka Baliyani. "A novel and provable authentication and key agreement scheme with user anonymity for global mobility networks," Accepted in *Security and Communication Networks (Wiley)* April 2016 **(SCI-E, Impact factor: 0.720) (SNIP: 1.06) (SJR: 0.45)**
- 4) Xiong Li, Jianwei Niu, **Saru Kumari**, SK Hafijul Islam, Fan Wu, Muhammad Khurram Khan & Ashok Kumar Das; A novel chaotic maps-based user authentication and key agreement protocol for multi-server environments with provable security. *Wireless Personal Communications, Springer*, April 2016, DOI 10.1007/s11277-016-3293-x **(SCI-E, Impact factor: 0.979) (SNIP: 1) (SJR: 0.32)**
- 5) Pitam Singh, **Saru Kumari**, Priyamvada Singh; Fuzzy Efficient Interactive Goal Programming Approach for Multi-objective Transportation Problems. *International Journal of Applied and Computational Mathematics*. 3 March 2016, DOI 10.1007/s40819-016-0155-x. (Non- **SCI-E**)
- 6) Ashok Kumar Das, Anil Kumar Sutrala, Saru Kumari, Vanga Odelu, Mohammad Wazid, Xiong Li; An efficient multi-gateway based three-factor user authentication and key agreement scheme in hierarchical wireless sensor networks. *Security and Communication Networks*. Feb. 2016, DOI: 10.1002/sec.1464 **(SCI-E, Impact factor: 0.433) (SNIP: 0.72) (SJR: 0.26)**

- 7) Fan Wu, Lili Xu, **Saru Kumari**, Xiong Li; A privacy-preserving and provable user authentication scheme for wireless sensor networks based on Internet of Things. *Journal of Ambient Intelligence and Humanized Computing*, 13 January 2016, DOI 10.1007/s12652-016-0345-8 **(newly included in Web of Science, Impact factor will be released in 2016) (SNIP: 1.17) (SJR: 0.53)**
- 8) Mohammad Wazid, Ashok Kumar Das, Saru Kumari, Xiong Li, Fan Wu; Design of an efficient and provably secure anonymity preserving three-factor user authentication and key agreement scheme for TMIS. *Security and Communication Networks*. Feb. 2016, DOI: 10.1002/sec.1452 **(SCI-E, Impact factor: 0.433) (SNIP: 0.72) (SJR: 0.26)**
- 9) Xiong Li, Kaihui Wang, Jian shen, **Saru kumari**, Fan wu, Yonghua Hu; An enhanced biometrics-based user authentication scheme for multiserver environments in critical systems, *Journal of Ambient Intelligence and Humanized Computing*, Dec 2015, DOI 10.1007/s12652-015-0338-z **(newly included in Web of Science, Impact factor will be released in 2016) (SNIP: 1.17) (SJR: 0.53)**
- 10) S.K. Hafizul Islam, Ruhul Amin, G.P. Biswas, Mohammad Sabzinejad Farash, Xiong Li, **Saru Kumari**; An improved three party authenticated key exchange protocol using hash function and elliptic curve cryptography for mobile-commerce environments, *Journal of King Saud University – Computer and Information Sciences*, <http://dx.doi.org/10.1016/j.jksuci.2015.08.002>, Elsevier, Nov. 3, 2015 **(Non-SCI , Indexed in Scopus) (SNIP: 0.787) (SJR: 0.283)**
- 11) **Saru Kumari**, Fan Wu, Xiong, Li Mohammad Sabzinejad Farash, Qi Jiang, Muhammad Khurram Khan, Ashok Kumar Das; Single Round-trip SIP Authentication Scheme with Provable Security for Voice over Internet Protocol using Smart Card. *Multimedia Tools and Applications*, DOI: 10.1007/s11042-015-2988-4, **Springer**, Nov. 4, 2015, **(SCI-E, Impact factor: 1.346) (SNIP: 1.5) (SJR: 0.43)**
- 12) **Saru kumari**, Shehzad Ashraf Chaudhry, Fan Wu, Xiong Li, Mohammad Sabzinejad Farash, Muhammad Khurram Khan; An Improved Smart Card Based Authentication Scheme for Session Initiation Protocol. *Peer-to-Peer Networking and Applications*. DOI 10.1007/s12083-015-0409-0, Online on 15 Sep. 2015 **(SCI-E, Impact factor: 0.632) (SNIP: 0.84) (SJR: 0.45)**
- 13) Omid Mir, Jorge Munilla, **Saru kumari**; Efficient Anonymous Authentication With Key Agreement Protocol for Wireless Medical Sensor Networks. *Peer-to-Peer Networking and*

Applications. DOI 10.1007/s12083-015-0408-1, Online on 15 Sep. 2015 (**SCI-E, Impact factor: 0.632**) (**SNIP: 0.84**) (**SJR: 0.45**)

14) Fan Wu, Lili Xu, **Saru Kumari**, Xiong Li; A New and Secure Authentication Scheme for Wireless Sensor Networks with Formal Proof. *Peer-to-Peer Networking and Applications*. DOI 10.1007/s12083-015-0404-5, Online on 5 Sep. 2015 (**SCI-E, Impact factor: 0.632**) (**SNIP: 0.84**) (**SJR: 0.45**)

15) Fan Wu, Lili Xu, **Saru Kumari**, Xiong Li; An Improved and Anonymous Two-Factor Authentication Protocol for Health-Care Applications with Wireless Medical Sensor Networks. *Multimedia Systems*. DOI 10.1007/s00530-015-0476-3, Online on 8 August 2015 (**SCI, Impact factor: 0.619**) (**SNIP: 0.93**) (**SJR: 0.3**)

16) Mohammad Sabzinejad Farash, Shahzad Ashraf Ch, Mohammad Heydari, Mohammad Sazad Sadough, **Saru Kumari**, Muhammad Khurram Khan; A Lightweight Anonymous Authentication Scheme for Consumer Roaming in Ubiquitous Networks with Provable Security. *International Journal of Communication Systems*, **Wiley**, DOI: 10.1002/dac.3019, Online on 14 July 2015 (**SCI-E, Impact factor: 1.106**) (**SNIP: 1.77**) (**SJR: 0.68**)

17) Fan Wu, Lili Xu, **Saru Kumari**, Xiong Li, Abdulhameed Alelaiwi; A New Authenticated Key Agreement Scheme Based on Smart Cards Providing User Anonymity with Formal Proof. *Security and Communication Networks*, **Wiley**, DOI: 10.102/sec.1305, Online on 7 July 2015. (**SCI-E, Impact factor: 0.433**) (**SNIP: 0.72**) (**SJR: 0.26**)

18) Shehzad Ashraf Chaudhry, Mohammad Sabzinejad Farash, Husnain Naqvi, **Saru Kumari**, Muhammad Khurram Khan; An Enhanced Privacy Preserving Remote User Authentication Scheme with Provable Security. *Security and Communication Networks*, **Wiley**, DOI: 10.1002/sec.1299, Online on 29 June 2015. (**SCI-E, Impact factor: 0.433**) (**SNIP: 0.72**) (**SJR: 0.26**)

19) Muhammad Khurram Khan, Ankita Chaturvedi, Dheerendra Mishra, **Saru Kumari**; On the Security Enhancement of Integrated Electronic Patient Records Information Systems. *Computer Science and Information Systems (ComSIS)*, Vol. 12(2), pp. 857-872. May 2015 (**SCI-E, Impact factor: 0.477**) (**SNIP: 0.91**) (**SJR: 0.52**)

20) Mohammad Sabzinejad Farash, Muhamed Turkanović, **Saru Kumari**, Marko Hölbl; An efficient user authentication and key agreement scheme for heterogeneous wireless sensor network tailored for the Internet of Things environment. *Ad Hoc Networks*,

DOI:10.1016/j.adhoc.2014.11.018 **Elsevier**, Vol. 27, pp. 159-194, April 2015. **(SCI-E, Impact factor: 1.943) (SNIP: 2.605) (SJR: 0.790)**

21) Xiong Li, Junguo Liao, **Saru Kumari**, Wei Liang, Fan Wu, Muhammad Khurram Khan; A New Dynamic ID based User Authentication Scheme using Mobile Device: Cryptanalysis, the Principles and Design. *Wireless Personal Communications*, **Springer**, Feb. 2015, DOI:10.1007/s11277-015-2737-z **(SCI-E, Impact factor: 0.979) (SNIP: 1) (SJR: 0.32)**

22) **Saru Kumari**, Muhammad Khurram Khan, Mohammed Atiquzzaman; User Authentication Schemes for Wireless Sensor Networks: A Review. *Ad Hoc Networks*, DOI:10.1016/j.adhoc.2014.11.018 **Elsevier**, Vol. 27, pp. 159-194, April 2015. **(SCI-E, Impact factor: 1.943) (SNIP: 2.605) (SJR: 0.790)**

23) Mohammad Sabzinejad Farash, **Saru Kumari**, Majid Bakhtiari; Cryptanalysis and Improvement of a Robust Smart Card Secured Authentication Scheme on SIP Using Elliptic Curve Cryptography. *Multimedia Tools and Applications*, DOI 10.1007/s11042-015-2487-7 **Springer**, Feb. 2015 **(SCI-E, Impact factor: 1.058) (SNIP: 1.5) (SJR: 0.43)**

24) Dheerendra Mishra, **Saru Kumari**, Muhammad Khurram Khan, Sourav Mukhopadhyaya; An Anonymous Biometric Based Remote User Authenticated Key Agreement Scheme for Multimedia Systems. *International Journal of Communication Systems*, DOI: 10.1002/dac.2946 **Wiley**, Jan. 2015 **(SCI-E, Impact factor: 1.106) (SNIP: 1.77) (SJR: 0.68)**

25) Xiong Li, Jianwei Niu, **Saru Kumari**, Muhammad Khurram Khan, Junguo Liao, Wei Liang; Design and Analysis of a Chaotic Maps-based Three Party Authenticated Key Agreement Protocol. *Nonlinear Dynamics*, DOI 10.1007/s11071-015-1937-0 **Springer**, Jan. 2015 Vol. 80, no. 3, pp. 1209-1220 **(SCI, Impact factor: 2.42) (SNIP: 2.8) (SJR: 1.28)**

26) Xiong Li, Jianwei Niu, **Saru Kumari**, Junguo Liao, Wei Liang, Muhammad Khurram Khan; A new authentication protocol for healthcare applications using wireless medical sensor networks with user anonymity. *Security and Communication Networks*, DOI: 10.1002/sec.1214 **Wiley**, Feb 16, 2015. **(SCI-E, Impact factor: 0.433) (SNIP: 0.72) (SJR: 0.26)**

27) Fan Wu, Lili Xu, **Saru Kumari**, Xiong Li; A novel and provably secure biometrics based three-factor remote authentication scheme for mobile client-server networks. *Computers and Electrical Engineering*, Vol. 45, pp. 274-285, DOI:10.1016/j.compeleceng.2015.02.015 **Elsevier**, March 12, 2014. **(SCI-E, Impact factor: 0.992) (SNIP: 1.673) (SJR: 0.583)**

- 28) Mohammed Sabsinejad Farash, Mahmoud Ahmadian Attari, **Saru Kumari**; Cryptanalysis and improvement of a three-party password based authenticated key exchange protocol with user anonymity using extended chaotic maps. *International Journal of Communication Systems* DOI: 10.1002/dac.2912 **Wiley**, 22 Dec. 2014. **(SCI-E, Impact factor: 1.106) (SNIP: 1.77) (SJR: 0.68)**
- 29) **Saru Kumari**, Muhammad Khurram Khan, Xiong Li; A More Secure Digital Rights Management Authentication Scheme Based on Smart Card. *Multimedia Tools and Applications*, **Springer**, Vol. 75, no. 2, pp. 1135-1158, DOI:10.1007/s11042-014-2361-z **(SCI-E, Impact factor: 1.058) (SNIP: 1.5) (SJR: 0.43)**
- 30) Xiong Li, Jianwei Niu, **Saru Kumari**, Junguo Liao, Wei Liang; An Enhancement of a Smart Card Authentication Scheme for Multi-server Architecture. *Wireless Personal Communications*, **Springer**, 19 Aug. 2014. Vol. 80, no. 1, pp. 175-192, DOI: 10.1007/s11277-014-2002-x **(SCI-E, Impact factor: 0.979) (SNIP: 1) (SJR: 0.32)**
- 31) **Saru Kumari**, Muhammad Khurram Khan, Xiong Li; Design of a User Anonymous Password Authentication Scheme without Smart Card. *International Journal of Communication Systems*, **Wiley**, Vol. 29, no. 3, pp. 441-458, Feb. 2016, DOI: 10.1002/dac.2853 **(SCI-E, Impact factor: 1.106) (SNIP: 1.77) (SJR: 0.68)**
- 32) Dheerendra Mishra, Sourav Mukhopadhyay, **Saru Kumari**, Muhammad Khurram Khan, Ankita Chaturvedi; Security Enhancement of a Biometric based Authentication Scheme for Telecare Medicine Information Systems with Nonce. *Journal of Medical Systems*, **Springer**, 26 April 2014. DOI: 10.1007/s10916-014-0041-1 **(SCI-E, Impact factor: 1.372) (SNIP: 1.79) (SJR: 0.6)**
- 33) Dheerendra Mishra, Sourav Mukhopadhyay, Ankita Chaturvedi, **Saru Kumari**, Muhammad Khurram Khan; Cryptanalysis and Improvement of Yan et al.'s Biometric-based Authentication Scheme for Telecare Medicine Information Systems. *Journal of Medical Systems*, **Springer**, 1 June 2014. DOI 10.1007/s10916-014-0024-2 **(SCI-E, Impact factor: 1.372) (SNIP: 1.79) (SJR: 0.6)**
- 34) **Saru Kumari**, Muhammad Khurram Khan, Xiong Li; An Improved Remote User Authentication Scheme with Key Agreement. *Computers and Electrical Engineering*, **Elsevier**, Aug. 2014. Vol. 40, no. 6, pp. 1997-2012, DOI:org/10.1016/j.compeleceng.2014.05.007 **(SCI-E, Impact factor: 0.992) (SNIP: 1.673) (SJR: 0.583)**

- 35) Muhammad Khurram Khan and **Saru Kumari**; An Improved User Authentication Protocol for Healthcare Services via Wireless Medical Sensor Networks. *International Journal of Distributed Sensor Networks*, Volume 2014, Article ID 347169, 10 pages, 27 April 2014, <http://dx.doi.org/10.1155/2014/347169> (**SCI-E, Impact factor: 0.923**) (**SNIP: 1.1**) (**SJR: 0.24**)
- 36) **Saru Kumari**, Muhammad Khurram Khan; Cryptanalysis and Improvement of 'A Robust Smart-Card-Based Remote User Password Authentication Scheme'. *International Journal of Communication Systems*, **Wiley**, Dec 2014, Vol. 27, no. 12, pp. 3939-3955. DOI: 10.1002/dac.2590 (**SCI-E, Impact factor: 1.106**) (**SNIP: 1.77**) (**SJR: 0.68**)
- 37) **Saru Kumari** and Muhammad Khurram Khan; More Secure Smart Card Based Remote User Password Authentication Scheme with User Anonymity. *Security and Communication Networks*, **Wiley**, Nov. 2014. Vol. 7, no. 11, pp. 2039-2053, DOI: 10.1002/sec.916 (**SCI-E, Impact factor: 0.433**) (**SNIP: 0.72**) (**SJR: 0.26**)
- 38) **Saru Kumari**, Mridul Kumar Gupta, Muhammad Khurram Khan, Xiong Li; An Improved Timestamp-Based Password Authentication Scheme: Comments, Cryptanalysis and Improvement. *Security and Communication Networks*, **Wiley**, Nov 2014, Vol. 7, no. 11, pp. 1921-1932, DOI: 10.1002/sec.906 (**SCI-E, Impact factor: 0.433**) (**SNIP: 0.72**) (**SJR: 0.26**)
- 39) Muhammad Khurram Khan, **Saru Kumari**; An Improved Biometrics-Based Remote User Authentication Scheme with User Anonymity. *BioMed Research International*, 2 Sep. 2013. Volume 2013, Article ID 491289, 9 pages DOI.org/10.1155/2013/491289 (**SCI-E, Impact factor: 2.8**)
- 40) Muhammad Khurram Khan, **Saru Kumari**; An Authentication Scheme for Secure Access to Healthcare Services. *Journal of Medical Systems*, **Springer**, July 2013. DOI 10.1007/s10916-013-9954-3 (**SCI-E, Impact factor: 1.372**) (**SNIP: 1.79**) (**SJR: 0.6**)
- 41) Muhammad Khurram Khan, **Saru Kumari**; Cryptanalysis and Improvement of "An Efficient and Secure Dynamic ID-based Authentication Scheme for Telecare Medical Information Systems". *Security and Communication Networks*, **Wiley**, Vol. 7, No. 2, pp. 399-408, Feb 2014. DOI: 10.1002/sec.791 (**SCI-E, Impact factor: 0.433**) (**SNIP: 0.72**) (**SJR: 0.26**)
- 42) Muhammad Khurram Khan, **Saru Kumari**, Pitam Singh; Cryptanalysis of an 'Efficient-Strong Authentication Protocol (E-SAP) for Healthcare Applications Using Wireless Medical Sensor

Networks'. *KSII Transactions on Internet and Information Systems*, Vol. 7, No. 5, pp. 967-979, May 2013. **(SCI-E, Impact factor: 0.56) (SNIP: 0.6) (SJR: 0.22)**

43) Muhammad Khurram Khan, **Saru Kumari**, Mridul Kumar Gupta; More Efficient Key-Hash Based Fingerprint Remote Authentication Scheme Using Mobile Device. *Computing*, **Springer**, Sep. 2014. Vol. 96, no. 9, pp. 793-816, **DOI: 10.1007/s00607-013-0308-2 (SCI, Impact factor: 1.055) (SNIP: 1.73) (SJR: 0.58)**

44) **Saru Kumari**, Muhammad Khurram Khan, Rahul Kumar; Cryptanalysis and Improvement of 'A Privacy Enhanced Scheme for Telecare Medical Information Systems.' *Journal of Medical Systems*, **Springer**, Aug. 2013. **DOI: 10.1007/s10916-013-9952-5 (SCI-E, Impact factor: 1.372) (SNIP: 1.79) (SJR: 0.6)**

45) **Saru Kumari**, Mridul Kumar Gupta, Manoj Kumar; Cryptanalysis and Security Enhancement of Chen et al.'s Remote User Authentication Scheme using Smart Card. *Central European Journal of Computer Science*, **Springer**, Vol.2, No.1, pp. 60-75, March 2012.

46) Manoj Kumar, Mridul Kumar Gupta, **Saru Kumari**; An Improved Efficient Remote Password Authentication Scheme with Smart Card over Insecure Network. *International Journal of Network Security*, Vol.13, No.3, pp. 167-177, Nov. 2011. **(SNIP: 1.77) (SJR: 0.54)**

47) Manoj Kumar, Mridul Kumar Gupta, **Saru Kumari**; An Improved Smart Card Based Remote User Authentication Scheme with Session Key Agreement during the Verification Phase. *Journal of Applied Computer Science & Mathematics*, Vol. 11, No. 5, pp. 38-46, 2011.

Paper Published in Refereed National Journal

1) Manoj Kumar, Mridul Kumar Gupta, **Saru Kumari**; A Remote Login Authentication Scheme with Smart Cards based on Unit Sphere. *Indian Journal of Computer Science and Engineering (IJCSE)*, Vol.1, No. 3, pp. 192-198, 2010.

Paper in Refereed International Conference Proceedings

- 1) Xiong Li, Junguo Liao, Jiao Zhang, **Saru Kumari**, Jianwei Niu; A secure remote user mutual authentication scheme using smart cards. *Computing, IEEE Communications & Applications Conference- (ComComAp 2014), October, 20-22, 2014*, ISBN: 978-1-4799-4810-9, Beijing, China.
- 2) Muhammad Khurram Khan, **Saru Kumari**, Xiaomin Wang, Rahul Kumar; Security Issues of Chen et al.'s Dynamic ID-based Authentication Scheme. *12th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2014), 24-27 August, 2014*, ISBN: 9781479950805, Dalian, China.
- 3) Xiong Li, Muhammad Khurram Khan, **Saru Kumari**, Junguo Liao and Wei Liang; Cryptanalysis of a Robust Smart Card Authentication Scheme for Multi-server Architecture. *IEEE International Symposium on Biometrics & Security Technologies (ISBAST'14), Kuala Lumpur, Malaysia, 26-27 August 2014*.
- 4) **Saru Kumari**, Muhammad Khurram Khan, Xiong Li, Rahul Kumar; Notes on "A Password-Based Remote User Authentication Scheme without Smart Card." *IEEE International Symposium on Biometrics & Security Technologies (ISBAST'14), Kuala Lumpur, Malaysia, 26-27 August 2014*.
- 5) **Saru Kumari**, Muhammad Khurram Khan, Fahad Bin Muhaya, Rahul Kumar; Cryptanalysis of 'A Robust Smart-Card-Based Remote User Password Authentication Scheme.' *IEEE International Symposium on Biometrics & Security Technologies (ISBAST'13), Chengdu, China, 2-5 July 2013*.
(Attended the conference and presented the paper)
- 6) Muhammad Khurram Khan, **Saru Kumari**, Mridul Kumar Gupta; Cryptanalysis of Truong et al.'s Fingerprint Biometric Remote Authentication Scheme Using Mobile Device. *Brain Inspired Cognitive Systems (BICS), Lecture Notes in Artificial Intelligence (LNAI)*, ISBN: 978-3-642-38785-2, Beijing, China, 2013, 2013.
- 7) Muhammad Khurram Khan, **Saru Kumari**, Mridul Kumar Gupta; Further Cryptanalysis of 'A Remote Authentication Scheme Using Mobile Device.' *IEEE Fourth International Conference on Computational Aspects of Social Networks (CASoN), in Sao Carlos Brazil, November 21-23, pp. 234 - 237*, ISBN: 978-1-4673-4792-1, 2012.
- 8) **Saru Kumari**, Muhammad Khurram Khan, Mridul Kumar Gupta, Fahad T Bin Muhaya; Cryptanalysis of "an improved timestamp-based remote user authentication scheme." *Proceedings of 2012 International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering (ICQR2MSE), 15-18 June 2012, Chengdu, China, pp. 1439 - 1442*, Print ISBN: 978-1-4673-0786-4, DOI: 10.1109/ICQR2MSE.2012.6246494.

Paper in Refereed National Conference Proceedings

- 1) Manoj Kumar, Mridul Kumar Gupta, **Saru Kumari**; Cryptanalysis of Enhancements of a Password Authentication Scheme over Insecure Networks. *Proceedings of 4th International Conference on Contemporary Computing (IC3)*, 8-10 August, (JIT Noida, India), vol.168, pp. 524-532, ISBN: 978-3-642-22605-2, 2011. **(Attended the conference and presented the paper)**
- 2) Manoj Kumar, Mridul Kumar Gupta, **Saru Kumari**; An Enhanced User Friendly Remote Authentication Scheme with Smart Card. *Proceedings of National Conference on Methods and Models in Computing (NCM2C 2007)*, (JNU, Delhi, India), Dec,13-14, 2007, ISBN: 8184242719, pp. 201-208, 2007.

JOURNAL'S REVIEWER

- Reviewer for the *Security and Communication Networks*, John Wiley & Sons [ISI SCI-E] (Since Jan. 2013)
- Reviewer for the *Journal of Network and Computer Applications*, Elsevier Science [ISI SCI-E] (Since May 2012)
- Reviewer for the *Computer and Electrical Engineering*, Elsevier Science [ISI SCI-E] (Since Nov. 2012)
- Reviewer for the *Electronic Commerce Research Journal*, Springer-Verlag [ISI SSCI] (Since May 2012)
- Reviewer for the *International Journal of Distributed Sensor Networks*, Hindawi, [ISI SCI-E] (Since Jan. 2013)
- Reviewer for the *International Journal of Communication Systems*, John Wiley & Sons [ISI SCI-E] (Since May 2013)
- Reviewer for the *International Journal of Adhoc and Ubiquitous Computing*, Inderscience [ISI SCI-E] (Since Sep. 2013)
- Reviewer for the *Journal of Medical Systems*, Springer-Verlag [ISI SCI-E] (Since Oct. 2013)
- Reviewer for the *International Journal of Network Security*, [EI] (Since Dec. 2013)
- Reviewer for the *IEEE Security and Privacy*, [SCI-E] (Since May 2015)
- Reviewer for the *Wireless Personal Communications*, Springer-Verlag [SCI-E] [Since May 2015)
- Reviewer for the *Cryptologia*, Taylor & Francis [SCI-E] [Since May 2015)
- Reviewer for the *Journal of cloud Computing*, Springer [Since Dec. 2015]
- Reviewer for the *IET Information Security*, [Since Dec. 2015]
- Reviewer for the *Ad Hoc Networks*, Elsevier[Since Dec. 2015]
- Reviewer for the *Circuits, Systems, and Computers*, [Since Dec. 2015]
- Reviewer for the *IEEE-Transactions on Dependable and Secure computing*, *IEEE*, [Since Dec. 2015]
- Reviewer for the *Nonlinear Dynamics*, Springer, [Since April. 2016]

WORKSHOPS/ORIENTATION /REFRESHER

- Orientation Programme from UGC Academic Staff College, Aligarh Muslim University, Aligarh, 21 Sept -16 Oct 2012.
- National Instructional Workshop on Cryptology (NIWC-2014), Organized by Motilal Nehru National Institute of Technology Allahabad & Cryptology Research Society of India, 5-9 June, MNNIT, Allahabad
- Refresher Course in Mathematics and Statistics from UGC Academic Staff College, Punjabi University, Patiala, 12 -31 May 2014.
- Workshop on *MATLAB and LATEX: Simulation with Documentation (SIMDOC-2014)*, Motilal Nehru National Institute of Technology Allahabad, 30 June - 5 July 2014

PROFESSIONAL ACTIVITY

- Technical Program Committee Member for IEEE International Symposium on Biometrics & Security Technologies (ISBAST'13), Chengdu, China, 2-5 July 2013, <http://isbast13.csie.ntust.edu.tw>
- Technical Program Committee Member for IEEE International Symposium on Biometrics & Security Technologies (ISBAST'14), Kuala Lumpur, Malaysia, 26-28 August 2014, <http://seminar.utmspace.edu.my/isbast14/committe.html>
- Technical Program Committee Member for International conference on Computing for Sustainable Global Development, Organized by Bharti Vidyapeeth, New Delhi, India, 16-18 March 2015

MEMBERSHIP OF PROFESSIONAL BODIES

- ✓ Life Member of Indian Mathematical Society
- ✓ Life Member of Indian Science Congress
- ✓ Life Member of Cryptology Research Society of India

ADMINISTRATIVE EXPERIENCE

- Acting Principal and Drawing and Disbursing Officer (DDO), Government Polytechnic, Ferozabad, December 2007 to July 2009.