

# Dr. Maniklal Das

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RESEARCH INTERESTS	Cyber Security; Internet of Things; Blockchain Technology.	
EDUCATION	Ph.D. (Computer Science), <b>Indian Institute of Technology</b> , Bombay, India. M.Tech. (Computer Science), <b>Indian School of Mines</b> , Dhanbad, India. M.Sc. (Mathematics), <b>Vidyasagar University</b> , West Bengal, India.	
HONORS AND AWARDS	Senior Member, <i>IEEE</i> . Life Member, <i>Cryptology Research Society of India</i> . Visiting Researcher, <i>Western Kentucky University, USA, 2007-2008</i> . Visiting Researcher, <i>University of Malaga, Spain, 2013</i> . Visiting Researcher, <i>University of Clermont, France, 2016</i> .	
EDITORIAL	<b>Associate Editor:</b> IEEE Transactions on Dependable and Secure Computing [2018 - ]. <b>Reviewer:</b> IEEE Transactions on Services and Computing; IEEE Transactions on Dependable and Secure Computing; IEEE Internet of Things Journal; IEEE Systems Journal; IEEE Transactions on Cloud Computing; IEEE Transactions on Knowledge and Data Engineering; IEEE Transactions on Vehicular Technology; IEEE Transactions on Information Forensics and Security; ACM Transactions on Information and System Security; IEEE Transactions on Wireless Communications; IEEE Communications Letters; IET Information Security; Computer Communications- Elsevier; Computers & Security-Elsevier. <b>Conference TPC:</b> ICISS; IEEE CICS; ICDCIT; ACM Compute; IEEE TenSymp; ISSP; SecIoT; ICISA; UASS; and many others.	
ADMINISTRATION AND SUPERVISION	<b>Administration:</b> Held positions as Convenor-Board of Studies; Convenor-Curriculum Development Committee; Convener-Undergraduate Studies; Convenor-Postgraduate Studies; Convenor-Admissions Committee, Faculty Search Committee; Accreditation Coomiiittee; Research Progress Committee. <b>Supervision:</b> 5 PhD students (2 graduated and 3 students on-going); 25+ Master theses; 70+ BTech projects, and 100+ interns work supervised.	

PROFESSIONAL  
EXPERIENCE

*Professor* [September, 2016 - present ]  
*Associate Professor* [ April, 2012 - August, 2016 ]  
*Assistant Professor* [ July, 2006 - March, 2012 ]

**Dhirubhai Ambani Institute of Information and Communication Technology**  
Gandhinagar, India.

*Research Officer* [ August, 2001 - July, 2006 ]

**Institute for Development and Research in Banking Technology**  
Hyderabad, India

*Lecturer* [ October, 1998 - July, 2001 ]

**Haldia Institute of Technology**, West Bengal, India

*Visiting Faculty* [ 1994 - 1998 ]

**Vidyasagar University**, West Bengal, India.

*Visiting Faculty* [2014 - present ]

**Indian Institute of Information Technology**, Vadodara, India.

SPONSORED  
INTERNATIONAL  
(BILATERAL)  
PROJECTS

**Study of Privacy, Accountability and Ownership in IoT**

Department of Science and Technology, Govt. of India (CEFIPRA) under Indo-French Collaborative Research Programme under DST-INRIA-CNRS Targeted Programme.

Investigators: Manik Lal Das (PI, DA-IICT, India) and Lafourcade Pascal (PI, University of Clermont, France).

**Security and Privacy Infrastructure for Internet Of Things scenarios and applications.**

Department of Science and Technology, Govt. of India under Indo-Spanish joint Programme of cooperation in Science and Technology.

Investigators: Manik Lal Das (PI, DA-IICT, India) and Javier Lopez (PI, University of Malaga, Spain).

**Security proofs and multidisciplinary evaluation for dynamic hierarchical key assignment schemes**

Department of Science and Technology, Govt. of India under Indo-Japan cooperative Programme.

Investigators: Manik Lal Das (Co-PI, DA-IICT, India) and Kanta Matsuura (PI, University of Tokyo, Japan).

PUBLICATIONS

**Book Chapters**

Manik Lal Das. *Privacy and Accountability Concerns in the Age of Big Data*. In: Big Data: Storage, Sharing, and Security, CRC Press, 2016.

Rachit Mittal, Sarita Agrawal, and Manik Lal Das. *Secure Node Localization in Clustered Sensor Networks with Effective Key Revocation*. In: Emerging Innovations in Wireless Networks and Broadband Technologies, pp. 12-41, 2016.

Manik Lal Das and Siva C Muraharirao. *Digital Image Protection using Keyed Hash Function*. Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies, IGI Global, pp. 203-215, 2014.

Shefali Jain, Anish Mathuria, and Manik Lal Das. *Misbehavior Detection in VANET: A Survey*. Security, Privacy, Trust, and Resource Management in Mobile and Wireless Communications, IGI Global, pp. 134-147, 2014.

Manik Lal Das and Aakash Joshi. *Dynamic Program Update in Wireless Sensor Networks*. Security in Ad-hoc and Sensor Networks, World Scientific Publisher, pp. 369-384, 2009.

V. L. Narasimhan and Manik Lal Das. *Security Requires Information Literacy: A Perspective on Information Security for Business, Human, Social and Systemic Security*. Issues in Information and Media Literacy: Education, Practice and Pedagogy, Informing Science Press, pp. 257-286, 2009.

## Journals

Payal Chaudhari and Manik Lal Das. *Privacy Preserving Searchable Encryption with Fine-grained Access Control*. IEEE Transactions on Cloud Computing, 2019.

Sarita Agrawal, Manik Lal Das, and Javier Lopez. *Detection of Node Capture Attack in Wireless Sensor Networks*. IEEE Systems Journal, 2018.

Dhwani Patel and Manik Lal Das. *TIDE: tampered image detection using mutual information*. International Journal of Multimedia Intelligence and Security, Inderscience, 2018.

Ainish Dave, Hardik Gajera, and Manik Lal Das. *Privacy-preserving Targeted Online Advertising*. International Journal of Social Computing and Cyber-Physical Systems, Inderscience, 2018.

Rahul Saranjame and Manik Lal Das. *Securing Digital Image from Malicious Insider Attacks*. International Journal of Computer Vision and Image Processing, Vol.8, No.2, Pages 49-58, 2018.

Sarita Agrawal and Manik Lal Das. *Mutual Healing enabled Group-key Distribution Protocol in Wireless Sensor Networks*. Computer Communications, Elsevier, 112:131-140, 2017.

Manik Lal Das. *Key-escrow free Multi-signature Scheme using Bilinear Pairings*. Groups Complexity & Cryptology, 7(1):47-57, 2015.

Jaydeep Solanki, Aenik Shah, and Manik Lal Das. *Secure Patrol : Patrolling against buffer overflow exploits*. Information Security Journal: A Global Perspective, 23(3):107-117, 2014.

Anand Mudgerikar and Manik Lal Das. *Secure Multicast using IPsec and Multi-party Key Computation*. International Journal of Internet Technology and Secured Transactions, Inderscience, 5(2):149-162, 2014.

Manik Lal Das and Navkar Samdaria. *On the Security of SSL/TLS-enabled Applications*. Applied Computing and Informatics, Elsevier, 10:68-81, 2014.

Rachit Mittal and Manik Lal Das. *Secure Node Localization in Mobile Sensor Networks*. International Journal of Wireless Networks and Broadband Technologies, IGI Global, 3(1):18-33, 2014.

- Chandrapal Chahar, Vishal S Chauhan and Manik Lal Das. *Code Analysis for Software and System Security using Open Source Tools*. Information Security Journal: A Global Perspective, Taylor and Francis, 21(6):346-352, 2012.
- Siva C Muraharirao and Manik Lal Das. *Digital Image Protection using Keyed Hash Function*. International Journal of Computer Vision and Image Processing, IGI Global, 2(2):36-47, 2012.
- Anshul Singhal and Manik Lal Das. *MPEG Video Security using Motion Vectors and Quadrees*. Journal of Mobile, Embedded and Distributed Systems, 4(3):203-208, 2012.
- Anil Mundra, Anish Mathuria and Manik Lal Das. *Detecting flaws in dynamic hierarchical key management schemes using specification animation*. CSI Journal of Computing, 1(2):73-80, 2012.
- Manik Lal Das. *A Key Escrow-free Identity-based Signature Scheme without using Secure Channel*. Cryptologia, 35(1):58-72, 2011.
- Manik Lal Das. *Two-factor User Authentication in Wireless Sensor Networks*. IEEE Transactions on Wireless Communications, 8(3):1086-1090, 2009.
- P. B. Reddy and Manik Lal Das. *An Improved and Efficient Micro-payment Scheme*. Journal of Theoretical and Applied Electronic Commerce Research, 4(1):91-100, 2009.
- V. L. Narasimhan, P. T. Parthasarathy, and Manik Lal Das. *Evaluation of a Suite of Metrics for Component Based Software Engineering*. Issues in Informing Science and Information Technology, 6:731-740, 2009.
- Manik Lal Das, Ashutosh Saxena, and Deepak B Phatak. *Algorithms and Approches of Proxy Signatures: A Survey*. International Journal of Network Security, 9(3):264-284, 2009.
- G. Thulasi, Manik Lal Das, and Ashutosh Saxena. *An Improved Bilinear Pairing based Remote User Authentication Scheme*. Computer Standards & Interfaces, Elsevier, 31:181-185, 2009.
- V. L. Narasimhan and Manik Lal Das. *DIS: Data and Information Security for BS and MS Program - A Proposal*. ACM SIGCSE, 40(4):95-99, 2008.
- Manik Lal Das and Aaksh Joshi. *Dynamic Program Update in Wireless Sensor Networks Using Orthogonality Principle*. IEEE Communications Letters, 12(6):471-473, 2008.
- Vidhani Kumar and Manik Lal Das. *Securing Wireless Sensor Networks with Public Key Techniques*. Adhoc & Sensor Wireless Networks, 5:189-201, 2008.
- Manik Lal Das. *Comments on "Improved Efficient Remote User Authentication Schemes"*. International Journal of Network Security, 6(3):282-284, 2008.
- Manik Lal Das, Ashutosh Saxena, and Deepak B Phatak. *Proxy Signature Scheme with Effective Revocation using Bilinear Pairings*. International Journal of Network Security, 4(3):312-317, 2007.
- G. Raju, G. M. Choudary, Manik Lal Das, and Ashutosh Saxena. *Threshold Key Issuing in Identity Based Cryptosystems*. Computer Standards & Interfaces, Elsevier, 29(2):260-264, 2007.
- G. Raju, G. M. Choudary, Manik Lal Das, and Ashutosh Saxena. *Identity based Multisignatures*. INFORMATICA, 17(2):177-186, 2006.
- Manik Lal Das. *A Flexible and Secure Remote Systems Authentication Scheme Using Smart Cards*.

Transaction on Electronics, Computer and Communication, 1(2):78-82, 2006.

Manik Lal Das, Ashutosh Saxena, V. P. Gulati, and Deepak B Phatak. *A Novel Remote User Authentication Scheme using Bilinear Pairings*. Computers & Security, Elsevier, 25(3):184-189, 2006.

Manik Lal Das, Ashutosh Saxena, V. P. Gulati, and Deepak B Phatak. *Hierarchical Key Management Scheme Using Polynomial Interpolation*. ACM System Interest Group (Operating Systems Review), 39(1):40-47, 2005.

Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *An Efficient Proxy Signature Scheme with Revocation*. INFORMATICA, 15(4):455-464, 2004.

Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *A Dynamic ID-based Remote User Authentication Scheme*. IEEE Transactions on Consumer Electronics, 50(2):629-631, 2004.

## Conferences

Jinita Patel, Manik Lal Das, and Sukumar Nandi. *On the Security of Remote Key Less Entry for Vehicle*. In Proc. of the IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2018), IEEE, India, 2018.

Hardik Gajera, Shruti Naik, and Manik Lal Das. *MedCop: Verifiable Computation for Mobile Healthcare System*. In Proc. of International Symposium on Security in Computing and Communications, Bangalore, India, 2018.

K. Hemantha, Nidhi Desai, and Manik Lal Das. *On Minimality Attack for Privacy-Preserving Data Publishing*. In Proc. of International Symposium on Security in Computing and Communications, Bangalore, India, 2018.

Vishal Maral, Nachiket Trivedi, and Manik Lal Das. *Auditing Access to Private Data on Android Platform*. In Proc. of International Conference on Distributed Computing and Internet Technologies (ICDCIT 2018), LNCS 10722, Springer, pp. 105-111, India, 2018.

Xavier Bultel, Manik Lal Das, Hardik Gajera, David Gerault, Matthieu Giraud, and Pascal Lafourcade. *Private Polynomial Evaluation*. In Proc. of International Conference on Provable Security (ProvSec 2017), LNCS 10592, Springer, pp. 487-506, China, 2017.

Payal Chaudhari, Manik Lal Das, and Dipankar Dasgupta. *Privacy-Preserving Proxy Re-encryption with Fine-grained Access Control*. In Proc. of the International Conference on Information Systems Security (ICISS 2017), LNCS 10717, Springer, pp. 88-103, India, 2017 (Best Paper).

Nachiket Trivedi and Manik Lal Das. *MalDetec: A Non-Root Approach for Dynamic Malware Detection in Android*. In Proc. of the International Conference on Information Systems Security (ICISS 2017), LNCS 10717, Springer, pp. 231-240, India, 2017.

Nandan Parikh and Manik Lal Das. *Privacy-preserving Services in VANET with Misbehavior Detection*. In Proc. of the IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2017), IEEE, India, 2017.

Komal Falodiya and Manik Lal Das. *Security Vulnerability Analysis using Ontology-based Attack Graphs*. In Proc. of the IEEE India Council International Conference (INDICON 2017), IEEE, India, 2017.

- Pradip Tilala, Anil Roy and Manik Lal Das. *Home Access Control Through a Smart Digital Locking-Unlocking System*. In Proc. of the IEEE Region 10 Conference (TENCON 2017), IEEE, Singapore, 2017.
- Payal Chaudhari and Manik Lal Das. *A2BSE: Anonymous Attribute Based Searchable Encryption*. In Proc. of ISEA Asia Security & Privacy Conference (ISEA Asia S & P 2017), India.
- Ritu Sharma and Manik Lal Das. *On the Verification of Conjunctive Keyword Search Results using Authenticated Crawlers*. In Proc. of the International Conference on Communication, Systems and Networks (COMSNETS 2017), IEEE, India, 2017.
- Payal Chaudhari and Manik Lal Das. *On the Security of a Searchable Anonymous Attribute Based Encryption*. In Proc. of International Conference on Mathematics and Computing (ICMC 2017), India.
- Payal Chaudhari and Manik Lal Das. *Privacy Preserving Signcryption Scheme*. In Proc. of International Conference on Distributed Computing and Internet Technologies (ICDCIT 2017), LNCS 10109, Springer, pp. 196-209, India, 2017.
- Arjun Londhey and Manik Lal Das. *Efficient Image Authentication Scheme using Genetic Algorithms*. In Proc. of International Conference on Distributed Computing and Internet Technologies (ICDCIT 2017), LNCS 10109, Springer, 172-180, India, 2017.
- Hardik Gajera, Shruti Naik and Manik Lal Das. *On the security of "Verifiable Privacy-preserving Monitoring for Cloud-assisted mHealth Systems"*. In Proc. of the International Conference on Information Systems Security (ICISS 2016), LNCS 10063, Springer, pp. 324-335, India, 2016.
- Sarita Agrawal and Manik Lal Das. *Node Revocation and Key Update Protocol in Wireless Sensor Networks*. In Proc. of the IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2016), IEEE, India, 2016.
- Sarita Agrawal, Jay Patel and Manik Lal Das. *Pairing Based Mutual Healing in Wireless Sensor Networks*. In Proc. of the International Conference on Communication, Systems and Networks (COMSNETS 2016), IEEE, pp. 1-8, India, 2016.
- Jay Dave and Manik Lal Das. *Securing SQL with Access Control for Database as a Service Model*. In Proc. of the International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2016), ACM Press, Article No. 104, India, 2016.
- Arun Krishnan and Manik Lal Das. *Medical Image Security with Cheater Identification Using Secret Sharing Scheme*. In Proc. of the International Conference on Signal, Networking, Computing, and Systems (ICSNCS-2016), LNEE 395, Springer, India, 2016.
- Bhavya Bansal, Ronak Patel and Manik Lal Das. *CheckPDF: Check What is Inside Before Signing a PDF Document*. In Proc. of the International Conference on Signal, Networking, Computing, and Systems (ICSNCS-2016), LNEE 395, Springer, India, 2016.
- Sarita Agrawal, Manik Lal Das, Anish Mathuria and Sanjay Srivastava. *Program Integrity Verification for Detecting Node Capture Attack in Wireless Sensor Network*. In Proc. of the International Conference on Information Systems Security (ICISS 2015), Kolkata, India, LNCS 9478, Springer, pp. 419-440, 2015.
- Payal Chaudhari, Manik Lal Das, and Anish Mathuria. *On Anonymous Attribute Based Encryption*. In Proc. of the International Conference on Information Systems Security (ICISS 2015), Kolkata,

India, LNCS 9478, Springer, pp. 378-392, 2015.

Punit Mehta, Jigar Sharda, and Manik Lal Das. *SQLshield: Preventing SQL Injection Attacks by Modifying User Input Data*. In Proc. of the International Conference on Information Systems Security (ICISS 2015), Kolkata, India, LNCS 9478, Springer, pp. 192-206, 2015.

Naveen Kumar, Anish Mathuria, and Manik Lal Das. *Achieving Forward Secrecy and Unlinkability in Cloud-based Personal Health Record System*. In Proc. of IEEE International Symposium on Security, Privacy and Anonymity in Internet of Things (TrustCom/BigDataSE/ISPA 2015), Helsinki, Finland, IEEE, pp. 1249-1254, 2015.

Naveen Kumar, Anish Mathuria, and Manik Lal Das. *Comparing the Efficiency of Key Management Hierarchies for Access Control in Cloud*. In Proc. of International Symposium on Security in Computing and Communications, Kelara, India, Springer Volume 536 of Communications in Computer and Information Science, pp. 36-44, 2015.

Nidhi Desai and Manik Lal Das. *On the Security of RFID Authentication Protocols*. In Proc. of IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT 2015), IEEE, Bangalore, India, pp. 1-5, 2015.

Manik Lal Das. *Privacy and Security Challenges in Internet of Things*. In Proc. of the 11th International Conference on Distributed Computing and Internet Technologies (ICDCIT 2015), Springer, February, 2015. [invited paper]

Raghuvir Songhela and Manik Lal Das. *Yet Another Strong Privacy-Preserving RFID Mutual Authentication Protocol*. In Proc. of International Conference on Security, Privacy and Applied Cryptographic Engineering (SPACE 2014), LNCS 8804, Springer, pp. 171-182, 2014.

Naveen Kumar, Anish Mathuria, and Manik Lal Das. *An Efficient Time-Bound Hierarchical Key Assignment Scheme*. In Proc. of the International Conference on Information Systems Security (ICISS 2013), Springer, LNCS 8303, pp.191-198, 2013.

Manik Lal Das. *Strong Security and Privacy of RFID system for Internet of Things Infrastructure*. In Proc. of the International Conference on Security, Privacy, and Applied Cryptography Engineering (SPACE 2013), LNCS 8204, pp.56-69, Springer, 2013.

Naveen Kumar, Anish Mathuria, Manik Lal Das, and Kanta Matsuura. *Improving Security and Efficiency of Time-Bound Access to Outsourced Data*. In Proc. of ACM India Computing Convention, 9, 2013.

Sarita Agrawal, Rodrigo Roman, Manik Lal Das, Anish Mathuria, and Javier Lopez. *A Novel Key Update Protocol in Mobile Sensor Networks*. In Proc. of the International Conference on Information Systems Security (ICISS 2012), LNCS 7671, pp.194-207, Springer, 2012.

Renu Aggarwal and Manik Lal Das. *RFID Security in the context of Internet of Things*. In Proc. of the International Conference of Security of Internet of Things, ACM Press, India, pp.51-56, 2012.

Manik Lal Das. *Grids Security without Public Key Settings*. In Proc. of the 8th International Conference on Distributed Computing and Internet Technologies (ICDCIT 2012), LNCS 7154 Springer, pp.253-254, February, 2012.

C. Anudeep and Manik Lal Das. *An Improved Scheme for False Data Filtering in Wireless Sensor Networks*. In Proc. of the 8th International Conference on Distributed Computing and Internet Technologies (ICDCIT 2012), LNCS 7154 Springer, pp.62-70, February, 2012.

- Anil Mundra, Anish Mathuria, and Manik Lal Das. *Detecting flaws in dynamic hierarchical key management schemes using specification animation*. In Proc. of the 8th International Conference on Distributed Computing and Internet Technologies (ICDCIT 2012), LNCS 7154 Springer, pp.166-176, 2012.
- Sarita Agrawal and Manik Lal Das. *Internet Of Things - a paradigm shift for future Internet*. In Proc. of the Second International Conference on Current Trends in Technology (NUiCONE 2011), IEEE, Ahmedabad, India, 2012.
- Naveen Kumar, Anish Mathuria, and Manik Lal Das. *On Classifying Indirect Key Assignment Schemes for Hierarchical Access Control*. In Proc. of National Workshop on Cryptology, Surat, India 2010.
- Manik Lal Das. *Secure and Efficient Authentication Scheme for Remote Systems*. In Proc. of the International Conference of Information Technology (ICIT 2008), IEEE, Bhubaneswar, India, 2008.
- Manik Lal Das. *Efficient User Authentication and Secure Data Transmission in Wireless Sensor Networks*. In Proc. of the IEEE International Conference on Networks (ICON 2008), IEEE, India, 2008.
- Manik Lal Das and Ravi Mukkamala. *Revisiting Bluetooth Security*. In Proc. of the International Conference on Information Systems Security (ICISS 2008), Hyderabad, India, LNCS 5353, Springer, pp. 132-139, 2008.
- Manik Lal Das and V L Narasimhan. *A Simple and Secure Authentication and Key Establishment Protocol*. In Proc. of the International Conference on Emerging Trends in Engineering and Technology, India, IEEE Press, 844 -849, India, 2008.
- Manik Lal Das and V L Narasimhan. *Towards a Formal Verification of an Authentication Protocol Using Non-monotonic Logic*. In Proc. of the International Conference of Information Technology - New Generation, IEEE, pp.545-550, USA, 2008.
- Manik Lal Das and V L Narasimhan. *EARS: Efficient Entity Authentication in Remote Systems*. In Proc. of the International Conference of Information Technology - New Generation, IEEE, pp.603-608, USA, 2008.
- Manik Lal Das. *Authentication Techniques: An Overview*. In Proc. of National Workshop on Cryptology, Cryptology Research Society of India, 2006.
- Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *Cryptanalysis and Improvement of a Multi-signature scheme*. In Proc. of International Workshop on Distributed Computing, LNCS 3741, Springer-Verlag, India, pp.398-403, 2005.
- G. Thulasi, Manik Lal Das, and Ashutosh Saxena. *An Efficient Scheme for Digital Cash Using Bilinear Pairings*. In Proc. of Annual National Convention of the CSI, pp.349-357, India, 2005.
- G. Raju, G. M. Choudary, Manik Lal Das, Ashutosh Saxena, and V P Gulati. *Cryptanalysis of ID-based Key issuing Protocols*. In Proc. of National Workshop on Cryptology, India, 2005.
- Manik Lal Das and Ashutosh Saxena. *Secure Protocol for Authentication in Mobile-Communications*. In Proc. of IEEE International Conference on Mobile Business, IEEE, Australia, pp.23-27, 2005.
- Ashutosh Saxena, Manik Lal Das, and Anurag Gupta. *MMPS: A Versatile Mobile-to-Mobile Payment System*. In Proc. of IEEE International Conference on Mobile Business, IEEE, pp.400-405,



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G. M. Choudary, G. Raju, Manik Lal Das, and Ashutosh Saxena. *An Effective Certificateless Signature Scheme Based on Bilinear Pairings*. In Proc. of International Workshop on Security in Information Systems, USA, pp.31-39, 2005.

G. Raju, G. M. Choudary, Manik Lal Das, Ashutosh Saxena, and V P Gulati. *ID-based Serial Multisignature Scheme using Bilinear Pairings*. In Proc. of International Workshop on Security in Information Systems, USA, pp.40-47, 2005.

G. Raju, G. M. Choudary, Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *An Efficient Secure Key Issuing Protocol in ID-Based Cryptosystems*. In Proc. of IEEE International Conference on Information Technology, IEEE, pp.674-678, USA, 2005.

Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *A Security Framework for Mobile-to-Mobile Payment Network*. In Proc. of IEEE International Conference on Personal Wireless Computing, pp. 420-423, 2005.

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Ashutosh Saxena, Manik Lal Das, V. P. Gulati, and Deepak B Phatak. *Dynamic Remote User Authentication*. In Proc. of International Conference on Advanced Computing and Communications, India, pp.313-315, 2004.

Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *A Novel Remote User Authentication Scheme Through Dynamic Login Identity*. In Proc. of International Workshop on Distributed Computing, LNCS 3326, Springer-Verlag, pp.532, 2004.

Manik Lal Das, Ashutosh Saxena, and V P Gulati. *An Efficient Multisignature scheme for E-Services*. In Proc. of National Workshop on Cryptology, Cryptology Research Society of India, India, 2004.

Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *An Efficient Proxy Signature Scheme with Effective Revocation*. In Proc. of International Conference on Cybernetics and Information Technologies, Systems and Applications, pp.23-27, USA, 2004.

Manik Lal Das, Ashutosh Saxena, V. P. Gulati, and Deepak B Phatak. *A Key Management Scheme Based on Collision-resistant Hash Function and Polynomial Interpolations*. In Proc. of International Conference on Number Theory for Secure Communications, pp.164-166, India, 2003.

Manik Lal Das, Ashutosh Saxena, and V. P. Gulati. *Proxy Signatures Using Partial Delegation with Warrant*. In Proc. of International Conference on Number Theory for Secure Communications, pp.152-154, India, 2003.

## **Technical Reports**

Payal Chaudhari and Manik Lal Das. *Privacy-preserving Attribute Based Searchable Encryption*. IACR ePrint Achieve, No. 2015/899, <http://eprint.iacr.org/2015/899>.

Sarita Agrawal, Jay Patel, and Manik Lal Das. *Pairing Based Mutual Healing in Wireless Sensor Networks*. IACR ePrint Achieve, No. 2015/538, <http://eprint.iacr.org/2015/538>.

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Raghuvir Songhela, and Manik Lal Das. *Wide-weak Privacy Preserving RFID Mutual Authentication Protocol*. IACR ePrint Achieve, No. 2013/787, <http://eprint.iacr.org/2013/787>

Harsh N. Thakker, Mayank Saha, and Manik Lal Das. *Reputation Algebra for Cloud-based Anonymous Data Storage Systems*. Computing Research Repository CORRabs/1304.4002(2013)

Manik Lal Das. *Comment- Practical Data Protection*. Computing Research Repository - CORR abs/0804.4628, 2008.

Manik Lal Das. *On the Security of “an efficient and complete remote user authentication scheme”*. Computing Research Repository - CoRR abs/0802.2112, 2008.

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PERSONAL  
INFORMATION

Date of Birth: 19-February-1970

Nationality: Indian

Gender: Male

Spouse: Uma Das

Son: Sankha Das

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