



Srinivas Jangirala

Curriculum Vitae

Education

- 2013–2017 **Doctorate of Philosophy (Ph.D)**, *Indian Institute of Technology*, Kharagpur, West Bengal, INDIA.
- 2009–2011 **M.Tech.**, *Indian Institute of Technology*, Kharagpur, West Bengal, INDIA, CGPA–8.2.
- 2006–2008 **M.Sc.**, *Kakatiya University*, Telangana, INDIA, 65.05 %.
- 2000–2003 **B.Sc.**, *Vivekavardhini Degree college*, Kakatiya University, Telangana, INDIA, 62.87%.

Ph.D Thesis

Title: ***Design and Analysis of User Authentication and Key Agreement Schemes for Wireless Sensor Networks***

Supervisors: Prof. Sourav Mukhopadhyay

M.Tech Thesis

Title: ***State Merging in Canonical LR Parser with Error Report Quality Unchanged***

Supervisors: Prof. Pawan Kumar

Relevant Course Taken

- Management of Information Technology and Business
- Business Statistics
- Data Structures and Algorithms
- Information system security
- Object Oriented Programming
- C Programming and Labs
- Operations Research
- Business Mathematics
- Cloud Computing
- DBMS
- Computers & IT for Business

Technical Expertise

Basic JAVA, C, C++, R, Python
Intermediate \LaTeX , HTML, Linux, Microsoft Windows
Tools AVISPA, BAN-LOGIC, Proverif

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Teaching Experience:

- Working as Assistant Professor in Jindal Global Business School, O. P. Jindal Global University, Haryana, INDIA from the academic year 2018 to Till Date (1 Year 2 Months).
- Worked as a visiting faculty in LNMIIT, Jaipur, INDIA from the academic year 2011 to 2012 (1 Year 6 Months).
- Worked as a teaching assistant in System programming Lab under Prof. A. Goswami and Prof. Pawan Kumar, Department of Mathematics, IIT -Kharagpur, INDIA. (July-Nov, 2010).
- Worked as a teaching assistant in Object oriented programming Lab under Prof. Pawan Kumar, Department of Mathematics, IIT-Kharagpur, INDIA.(July-Nov, 2010).

Research Experience:

Project

2013–2015 **Project Staff**, CRYPTOGRAPHIC SUPPORT FOR DIGITAL RIGHTS MANAGEMENT, CSIR-project, SRIC IIT-Kharagpur, West Bengal, India. (2 Years 8 Months)

Post-Ph.D.

2017–2018 **Research Assistant**, CENTER FOR SECURITY, THEORY AND ALGORITHMIC RESEARCH, International Institute of Information Technology, Hyderabad (IIIT Hyderabad), Gachibowli-500 032, Hyderabad, India. (7 Months)

Awards/Merit

- 2009 All India 67th Rank with 97.36 percentile Gate score in Graduate Aptitude Test in Engineering
- 2006 University 26th Rank in M.Sc entrance held by Kakatiya University
- 2010-2011 Successfully held post of **MCM** of Pandit Madan Mohan Malaviya Hall of Residence

Conference conducted/organized/participated

- 2016 17th **International Conference on Cryptology in India "Indocrypt-2016"**, from 11 Dec, 2016 to 14 Dec, 2016, Indian Statistical Institute, Kolkata, West Bengal.
- 2019 **2nd INTERNATIONAL CONFERENCE ON INFORMATION TECHNOLOGY, DESIGN, NETWORK AND ENGINEERING-ITDN**, from 21 March, 2019 to 22 March, 2019, Bangkok. Organized by AETL, at Novotel Bangkok Ploenchit Sukhumvit, Thailand. <https://aetleducation.com/itdn-bangkok-event-2019/>
- 2019 **International Conference on Big Data Engineering (BDE 2019)**, from 11 June, 2019 to 13 June, 2019, Hong Kong. It is organized by ACM Singapore Chapter. <http://www.bde.net/index.html>

Short-Term Courses conducted/organized/participated

- 2009 **"TRAINING PROGRAMME ON MATLAB, GRAPHICS AND LaTeX"**, from 21 March, 2009 to 22 March, 2009, Department of Mathematics, Kakatiya University, Warangal.

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- 2014 **“AIS Cryptography (2014)”**, from 16 June, 2014 to 5 July, 2014, Society for Electronic Transactions and Security [SETS], Chennai.
- 2015 **“National Workshop on Cryptography (NWC-2015)”**, from 14 Dec, 2015 to 20 Dec, 2015, Department of Mathematics, The LNM Institute of Information Technology, Jaipur.
- 2016 **“Hands-on Session on MONOSEK-Real Time Network Packet Processing & Network Session Analysis”**, from 14 Sep, 2016 to 18 Sep, 2016, Department of Mathematics, Indian Institute of Technology(Indian School of Mines), Dhanbad.
- 2017 **TEQIP II-Sponsored Short-Term Course on “Fundamental Algorithms: Design and Analysis”**, from 09 Feb, 2017 to 13 Feb, 2017, Department of Mathematics, Indian Institute of Technology, KHARAGPUR.
- 2017 **8th Research Scholar Day oral presentation “Design and Analysis of an Authentication Protocol for WSN environment”**, on 4th March, 2017, Department of Mathematics, Indian Institute of Technology, KHARAGPUR.
- 2017 **TEQIP II-Sponsored Short-Term Course on “Advanced Topics in Cryptography”**, from 27 Jun, 2017 to 03 Jul, 2017, Department of Mathematics, Indian Institute of Technology, KHARAGPUR.
- 2019 **“Workshop on Industry 4.0 Overview”**, from 13 April, 2019 to 14 April, 2019, MSME-TECHNOLOGY CENTRE, Government Certified, Delhi. www.estcindia.com
- 2019 **“Workshop on Block Chain Technology”**, from 27 April, 2019 to 28 April, 2019, MSME-TECHNOLOGY CENTRE, Government Certified, Delhi. www.estcindia.com

Research Interests

My research interest in the following areas:

- Wireless Sensor Networks
- Security in Cloud Computing and IoT
- Key management issues
- Blockchain Technologies and Security issues
- Information security
- Communication Security
- Authentication Protocols

Membership

2018-2020 IEEE Member, Member#95368391, Hyderabad Section.

Valid up to 31st December 2020. For more details visit www.ieee.org/myieee

Research Contributions

Statistics:

- Number of Journal Papers (Published/Accepted): **18**
- Number of Conference Papers (Published): **4**
- Total citations: **365**, h-index: **10**, i10-index: **10** (According to Google Scholar Citations as on February 2020)
- Number of Science Citation Index [Thomson Reuters] (SCI) Journal Papers: **18**
- Number of IEEE Transactions/Journal/Magazine Papers: **6**

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Published in top venues like...

- IEEE Transactions on Dependable and Secure Computing (Impact Factor: **6.404**)
- Ad hoc Networks (Impact Factor: **3.49**)
- IEEE Transactions on Industrial Informatics (Impact Factor: **7.377**)
- IEEE Transactions on Vehicular Technology (Impact Factor: **5.339**)
- IEEE Internet of Things (Impact Factor: **9.515**)

Reviewer for several journals including IEEE Transactions, Elsevier, Springer, Wiley, etc.

- IEEE Transactions on Information Forensics and Security,
- IEEE Transactions on Cloud Computing,
- IEEE Internet of Things Journal,
- IEEE Transactions on Industrial Informatics,
- IEEE Transactions on Service Computing ...

Technical Program Committee (TPC) Member:

2019 Acronym of the event: **ICMC 2019, February 6th – 9th, 2019**

Name of the event: **5th International Conference on Mathematics and Computing**

Web page: <http://event.kiit.ac.in/icmc2019/>

2020 Acronym of the event: **ICMC 2020, March 18th – 20th, 2020**

Name of the event: **6th International Conference on Mathematics and Computing**

Web page: <http://icmc2020.in/>

Recognition/Reviewer Certificate:

March 2018 **Sustainable Cities and Society: Certificate of Outstanding Contribution in Reviewing**

October 2018 **Pervasive and Mobile Computing: Reviewer Certificate**

March 2019 **ICT Express: Reviewer Certificate**

March 2019 **Electronics and Telecommunication Research Institute (ETRI Journal): Reviewer Certificate**

April 2019 **Electronics and Telecommunication Research Institute (ETRI Journal): Reviewer Certificate**

July 2019 **International Journal of Communication Systems: Reviewer Certificate**

Editorial Board Member

- “**Electronics Science Technology and Application**”, Universe Scientific Publishing International.
- “**International Journal of Mathematics and Systems**”, Science EnPress Publisher International.
- “**International Journal of Wireless Communications and Mobile Computing (WCMC)**”, SciencePC Publishing Group, U.S.A.

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Publications

Journals

- J1 Jangirala Srinivas, Ashok Kumar Das, Neeraj Kumar, Joel J. P. C. Rodrigues. "Cloud Centric Authentication for Wearable Healthcare Monitoring System." *IEEE Transactions on Dependable and Secure Computing* DOI: <https://doi.org/10.1109/TDSC.2018.2828306>. (2018). **(SCI Impact Factor: 6.404)**
- J2 Jangirala Srinivas, Ashok Kumar Das, Mohammad Wazid, Neeraj Kumar. "Anonymous Lightweight Chaotic Map-Based Authenticated Key Agreement Protocol for Industrial Internet of Things." *IEEE Transactions on Dependable and Secure Computing* DOI: <https://doi.org/10.1109/TDSC.2018.2857811>. (2018). **(SCI Impact Factor: 6.404)**
- J3 Jangirala Srinivas, Sourav Mukhopadhyay, Dheerendra Mishra. "Secure and efficient user authentication scheme for multi-gateway wireless sensor networks." *Ad Hoc Networks* DOI:<https://doi.org/10.1016/j.adhoc.2016.11.002>. 54 (2017): 147-169. **(SCI Impact Factor: 3.49)**
- J4 Jangirala Srinivas, Dheerendra Mishra, Sourav Mukhopadhyay, Saru Kumari. "Provably secure biometric based authentication and key agreement protocol for wireless sensor networks." *Journal of Ambient Intelligence and Humanized Computing* DOI:<https://doi.org/10.1007/s12652-017-0474-8>. 9(2018): 875-895. **(SCI Impact Factor: 1.910)**
- J5 Ankita Chaturvedi, Dheerendra Mishra, Jangirala Srinivas, Sourav Mukhopadhyay. "A privacy preserving biometric-based three-factor remote user authenticated key agreement scheme." *Journal of Information Security and Applications* DOI:<https://doi.org/10.1016/j.jisa.2016.11.002>, 32 (2017): 15-26. **(SCI Impact Factor: 1.537)**
- J6 Jangirala Srinivas, Sourav Mukhopadhyay, Ashok Kumar Das. "A Multi-server Environment with Secure and Efficient Remote User Authentication Scheme Based on Dynamic ID Using Smart Cards." *Wireless Personal Communications* DOI:<https://doi.org/10.1007/s11277-017-3956-2>. 95(2017): 2735-2767. **(SCI Impact Factor:0.929)**
- J7 Jangirala Srinivas, Sourav Mukhopadhyay, Dheerendra Mishra. "A Self-Verifiable Password Based Authentication Scheme for Multi-Server Architecture Using Smart Card ", *Wireless Personal Communications*, DOI:<https://doi.org/10.1007/s11277-017-4476-9>, 96(2017): 6273-6297. **(SCI Impact Factor:0.929)**
- J8 Dheerendra Mishra, Jangirala Srinivas, Sourav Mukhopadhyay. "A secure and efficient chaotic map-based authenticated key agreement scheme for telecare medicine information systems." *Journal of medical systems* DOI:<https://doi.org/10.1007/s10916-014-0120-3>. 38, no. 10 (2014): 120. **(SCI Impact Factor: 2.415)**
- J9 Jangirala Srinivas, Dheerendra Mishra, Sourav Mukhopadhyay. "A Mutual Authentication Framework for Wireless Medical Sensor Networks." *Journal of medical systems* DOI:<https://doi.org/10.1007/s10916-017-0720-9>. 41, no. 5 (2017): 80. **(SCI Impact Factor: 2.415)**
- J10 Vinod Kumar, Jangirala Srinivas, Musheer Ahmad. "An Efficient Mutual Authentication Framework for Healthcare System in Cloud Computing." *Journal of medical systems* DOI:<https://doi.org/10.1007/s10916-018-0987-5>. 42(2018):142. **(SCI Impact Factor:2.415)**

- J11 Jangirala Srinivas, Dheerendra Mishra, Sourav Mukhopadhyay, Saru Kumari, Vandana Guleria. "An Authentication Framework for Roaming Service in Global Mobility Networks." *Information Technology And Control* DOI:<https://doi.org/10.5755/j01.itc.48.1.17270>. 48 (1), 129-145 (2019). **(SCI Impact Factor:0.707)**
- J12 Jangirala Srinivas, Ashok Kumar Das, Joel J. P. C. Rodrigues. "2PBDC: Privacy-Preserving Big Data Collection in Cloud Environment." *The Journal of Supercomputing* (2018). <https://doi.org/10.1007/s11227-018-2605-1> **(SCI Impact Factor: 2.157)**
- J13 Jangirala Srinivas, Ashok Kumar Das, Neeraj Kumar. "Government Regulations in Cyber Security: Framework, Standards and Recommendations." *Future Generation Computer Systems* DOI: <https://doi.org/10.1016/j.future.2018.09.063> , 92(2019): 178-188. **(SCI Impact Factor: 5.768)**
- J14 Jangirala Srinivas, Ashok Kumar Das, Neeraj Kumar, Joel J. P. C. Rodrigues. "TCALAS: Temporal Credential-Based Anonymous Lightweight Authentication Scheme for Internet of Drones Environment." *IEEE Transactions on Vehicular Technology* DOI:10.1109/TVT.2019.2911672 (2019). **(SCI Impact Factor: 5.339)**
- J15 Soumya Banerjee, Vanga Odelu, Ashok Kumar Das, Jangirala Srinivas, Neeraj Kumar, Samiran Chattopadhyay, Kim-Kwang Raymond Choo. "A Provably-Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment." *IEEE Internet of Things* DOI: 10.1109/JIOT.2019.2923373 (2019). **(SCI Impact Factor: 9.515)**
- J16 Saurav Malani, Jangirala Srinivas, Ashok Kumar Das, Kannan Srinathan, Minh Jo. "Certificate-Based Anonymous Device Access Control Scheme for IoT Environment." *IEEE Internet of Things* (2019). **(SCI Impact Factor: 9.515)**
- J17 Jangirala Srinivas, Ashok Kumar Das, Athanasios V. Vasilakos. "Designing Secure Lightweight Blockchain-Enabled RFID-Based Authentication Protocol for Supply Chains in 5G Mobile Edge Computing Environment." *IEEE Transactions on Industrial Informatics* (2019). **(SCI Impact Factor: 7.377)**
- J18 Adesh Kumari, Jangirala Srinivas, Yahya M Abbasi, Vinod Kumar, Mansaf Alam. "ESEAP: ECC based Secure and Efficient Mutual Authentication Protocol using Smart card." *Journal of Information Security and Applications* (2019). **(SCI Impact Factor: 1.537)**

Conferences

- C1 Jangirala Srinivas, Dheerendra Mishra, and Sourav Mukhopadhyay. "Secure Lightweight User Authentication and Key Agreement Scheme for Wireless Sensor Networks Tailored for the Internet of Things Environment." In *Information Systems Security*, pp. 45-65. Springer International Publishing, 2016.
- C2 Chakravaram Venkamaraju, Vidya Sagar Rao.G, Jangirala Srinivas, Sunitha Ratnakaram. "The Role of Big Data, Data Science and Data Analytics in Financial Engineering." In *BDE 2019 (2019 International Conference on Big Data Engineering)*, 2019.
- C3 Chakravaramraju, Jangirala Srinivas, Sunitha Ratnakaram. "Use of ICTs in Financial Engineering Applications in Insurance Business." In *ICT4SD*, 2019.
- C4 Jangirala Srinivas, Chakravaram Venkamaraju. "Authenticated and Privacy Ensured Smart Governance Framework for Smart City Administration." In *2nd International Conference on Advances in Computing and Communication Technologies ICACCT*, 2019.
- C5 Chakravaram Venkamaraju, Jangirala Srinivas. "The Role of Blockchain Technology in Financial Engineering." In *2nd International Conference on Advances in Computing and Communication Technologies ICACCT*, 2019.

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Book Chapters

- B1 Jangirala Srinivas, Ashok Kumar Das. "Cyber Defense Mechanisms: Security, Privacy, and Challenges; Chapter 11: Lightweight Security Protocols for Blockchain Technology." In ***CRC Press, Taylor and Francis, USA***, 2019.

References

- * Prof. Sourav Mukhopadhyay (Ph.D Supervisor)
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