



2020 International Conference
on
Computer Science, Engineering and Applications
(ICCSEA 2020)

IEEE Conference Record #49143

(March 13 – 14, 2020)

Organized by
Department of Computer Science & Engineering
GIET University, Gunupur-765022, India

IEEE
KOLKATA SECTION



Special Session Title:

IoT Security and Lightweight Cryptography

Organized by (Names, Affiliation, and Contact information):

1. Dr. Rajdeep Chakraborty

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2. Dr. Jyotsna Kumar Mandal

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Call for Papers:

The Internet of Things (IoT) is now taking every sphere of our life, from smart city applications to Alexa. The security concern and challenges in IoT devices are increasing in exponential manner. The primary sources of most IoT security issues is that weak, guessable, or hard-coded passwords, hardware design and implementation issues, lack of a secure communication and storage mechanism and un-patched embedded software and operating systems. Lightweight cryptography is a subfield of cryptography that aims to provide solutions tailored for resource-constrained devices; this includes efficient implementations of conventional cryptography standards, and the design and analysis of new lightweight algorithms and protocols. The outmost challenge is to implement IoT security and lightweight cryptography is within 2000-2500 Gates Equivalent (GEs).

Topics of interest include, but are not limited to:

1. IoT Security issues and vulnerability management.
2. Wireless sensor networks security
3. Cyber-physical system security.
4. Embedded systems security
5. Mobile computing and security
6. RFID Tagging and It's Security
7. Smart cities applications and security issues.
8. Lightweight Cryptography and Security
9. Hardware security design and metrics.
10. Efficient password management and authentication system in IoT.

Brief bio of Special Session Organizers:



Dr. Rajdeep Chakraborty did his PhD in CSE from University of Kalyani with M.Tech in IT and BE in CSE. His research experience is of 9 years and academic experience is of 14 years. He has several publications in reputed international journals and conferences. He also has written a book on hardware cryptography. His field of interest is mainly in cryptography and computer security. He has also guided many masters' thesis and UG projects. He is an enthusiastic and budding researcher in computer security.



Dr. Jyotsna Kumar Mandal did his PhD in CSE from Jadavpur University with M.Tech in CSE and M.Sc. in Physics. His research experience is of 25 years and academic experience is of 31 years. He has several publications in reputed international journals and conferences. His field of interest is mainly in Coding Theory, Data and Network Security, Remote Sensing & GIS based Applications, Data Compression Error Corrections, Information security, Watermarking, Steganography and Document Authentication, Image Processing, Visual Cryptography, MANET, Wireless and Mobile Computing/security, Unify Computing, Chaos Theory and Applications.. He has also guided many master's thesis and UG projects and supervised 22 PhD scholars.

Potential Reviewers (Names, Affiliation and Emails):

1. Dr. Anupam Ghosh, Professor, Dept. of CSE, Netaji Subhash Engineering College, Kolkata, India. E-mail: anupam.ghosh@rediffmail.com
2. Dr. Tanupriya Choudhury, Associate Professor, University of Petroleum and Energy Studies, Misraspatti, Uttarakhand 248197, India. Email: tanupriya1986@gmail.com
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Publication:

All accepted and presented papers will be published in the proceedings of the 2020 International Conference on Computer Science, Engineering and Applications (ICCSEA) and included in the IEEE Xplore digital library. **IEEE Conference Record #49143.**

Important Dates:

Paper submission deadline: 31st December 2019

Notification of acceptance: 30th January 2020

Camera Ready and registration deadline: 20th February 2020

Submission Procedure:

Authors must submit their manuscripts with their Easy chair login using the submission Link:

<https://easychair.org/conferences/?conf=iccsea2020>

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