

Dr. Abhishek Roy

Profile: <https://sites.google.com/site/diaryofaroy>

Tel: +91 9476134119 Email: dr.aroy@yahoo.com

OBJECTIVE To explore and implement innovative ideas using Computer Science.

EDUCATION **2011-2014 :**

Ph.D. (Computer Science)

The University of Burdwan, Burdwan, W.B, India.

Thesis title: Studies on Information Security in E-Governance using Cryptography

UGC Shodhganga Handle: <https://shodhganga.inflibnet.ac.in/handle/10603/199858>

2004-2006 :

M.Sc. (Computer Technology)

The University of Burdwan, Burdwan, W.B, India

Major Project conducted as **Team Leader**: Student Database Management System

Burdwan Medical College, Government of West Bengal, Burdwan, West Bengal, India

2001-2004 :

B.Sc. (Information Technology) Honours

The University of Burdwan, Burdwan, W.B, India.

PATENTS

1. Indian Design Patent:

Application Number / Design No.: 397465-001 Date: 12/10/2023

Status: **Design Patent Granted** Date of Issue: 27/12/2023

Journal No is 52/2023 and Journal Date is 29/12/2023

Title: Wireless Block chain banking smart card

Cbr Number: 212885 Cbr Date: 12/10/2023

Applicant Name: **Abhishek Roy**

2. Indian Design Patent:

Application Number / Design No.: 396285-001 Date: 28/09/2023

Status: **Design Patent Granted** Date of Issue: 07/11/2023.

Journal No is 45/2023 and Journal Date is 10/11/2023

Title: Biometric based service guidance device

Cbr Number: 212192 Cbr Date: 28/09/2023

Applicant Name: **Abhishek Roy**

3. Indian Design Patent:

Application Number / Design No.: 395502-001 Date: 20/09/2023

Status: **Design Patent Granted** Date of Issue: 06/11/2023.

Journal No is 45/2023 and Journal Date is 10/11/2023

Title: Interactive finance visualization device

Cbr Number: 211793 Cbr Date: 20/09/2023

Applicant Name: **Abhishek Roy**

4. Indian Design Patent:

Application Number / Design No.: 391992-001 Date: 05/08/2023

Status: **Design Patent Granted** Date of Issue: 25/10/2023.

Journal No is 43/2023 and Journal Date is 27/10/2023

Title: Secure multi-card electronic payment device

Cbr Number: 209773 Cbr Date: 05/08/2023

Applicant Name: Ankur Biswas, **Abhishek Roy**

**VIDWAN
PROFILE**

<https://vidwan.inflibnet.ac.in/profile/163702>

**GOOGLE
SCHOLAR ID
SCOPUS ID**

C_cEJiUAAAAJ
56941251800

**Ph.D.
SCHOLARS**

1. **Riya Sil** (M.Tech CSE) - **Degree Awarded** on 23-Nov-2023
Ph.D. Thesis submitted on 06-March-2023 and defended on 10-Nov-2023.
Thesis Title: Machine Learning based legal judgement prediction system.
UGC Shodhganga Handle: <https://shodhganga.inflibnet.ac.in/handle/10603/531508>
2. **Tanaya Das** (M.Tech CSE) - **Degree Awarded** on 16-Jan-2024
Ph.D. Thesis submitted on 07-Aug-2023 and defended on 15-Jan-2024.
Thesis Title: Machine Learning based approach to model and analyze the decision making process of legal judgement passed related to dowry death.
UGC Shodhganga Handle: <https://shodhganga.inflibnet.ac.in/handle/10603/546221>
3. Ankur Biswas (MCA, NET-2012) - **Thesis Submitted** on 10-April-2024.
Pre-Thesis seminar conducted on 17-Oct-2023.
Thesis Title: Secured Cloud Banking transaction using intelligent interface.
4. Subhasish Mohapatra (M.Tech CSE, NET-2017) - **Pre-Thesis seminar conducted on 02-Sept-2024**
Thesis Title: An integrated healthcare system for remote patient monitoring using assisted discrete event simulation model.
5. Roneeta Purkayastha (M.Tech CSE) - Ph.D. Continuing.
Thesis Title (Tentative): Intelligent message transmission for Cloud Voting System.
6. Gulfishan Mobin (M.Tech CSE) - Ph.D. Continuing.
Thesis Title (Tentative): A study on Cloud based Secured Transport Monitoring System.

**M.Tech CSE
STUDENT
GUIDED**

1. Sagnik Paul - Degree Awarded from Adamas University.
Retrieved on 22-Oct-2023 from: https://doi.org/10.1007/978-981-15-9019-1_26 and https://link.springer.com/chapter/10.1007/978-981-15-9019-1_26
2. Kankana Bandopadhyay - Degree Awarded from Adamas University.
Retrieved on 22-Oct-2023 from: https://doi.org/10.1007/978-981-15-9019-1_26 and https://link.springer.com/chapter/10.1007/978-981-15-9019-1_26
3. Manisha Gupta - Degree Awarded from Adamas University.
Retrieved on 22-Oct-2023 from: https://doi.org/10.1007/978-981-33-6393-9_36 and https://link.springer.com/chapter/10.1007/978-981-33-6393-9_36

INTEREST

Computer Network, DBMS, Data Structure using C, C++, Java.

**IIT DELHI
SFRF-2024**

Summer Faculty Research Fellow (SFRF-2024) Programme under IIT Delhi.
May 14 - July 12, 2024.

EXPERIENCE

Total Experience : **15 years**, Post PhD Teaching & Research Experience : **10 years**

EXPERIENCE

- **Aug 2018-Till date:**
 - Oct 2022-Till date: **Professor & Ph.D Supervisor (Tech.)**
Dept. of Computer Science & Engineering

Former Programme Coordinator, Ph.D. Coursework Program
Adamas University, Kolkata, W.B, India.

- Dec 2018-Oct 2022: **Associate Professor & Ph.D Supervisor (Tech.)**
Dept. of Computer Science & Engineering
Adamas University, Kolkata, W.B, India.
- Aug 2018-Dec 2018: **Assistant Professor & Former Head of Dept.**
Dept. of Computer Science & Engineering
Adamas University, Kolkata, W.B, India.

- **Aug 2015-Mar 2018:**
Assistant Professor, Dept. of Computer Science & Engineering
Amity University, Kolkata, W.B, India.
- **July 2014-August 2015:**
Assistant Professor, Dept. of Computer Science
St. Xavier's College, Burdwan, W.B, India.
- **Jan 2010-Mar 2014:**
Assistant Professor, Dept. of Computer Applications
Durgapur Society of Management Science, Durgapur, W.B, India.
- **Jan 2009-Sept 2009:**
Senior Lecturer, School of Information Technology (Ashram Campus)
Institute of Engineering and Management, Kolkata, W.B, India.
- **Dec 2007-Jan 2009:**
Group Leader - Technical Support, Brainware Consultancy Pvt. Ltd.
Sector - V, Saltlake, Kolkata, W.B, India.
- **Sept 2007-Dec 2007:**
Contractual Teacher (Computer Science), Midnapore College, W.B, India.

MEMBERSHIP

- Member (Member Number: 356344, Date: 08 November 2023): International Association of Engineers (IAENG), Hong Kong. URL: <http://www.iaeng.org>
- Life Member (L/0509): Cryptology Research Society of India (CRSI), Applied Statistics Unit, Indian Statistical Institute (ISI), Kolkata 700108, India.
- Member: Society for Research in Information Security and Privacy (SI No. 009 Date 11.06.2013), Centre for Distributed Computing, Jadavpur University, Kolkata 700032, India.

INTERNATIONAL JOURNAL PUBLICATION

- **2024: (SCI JOURNAL - 01, SCOPUS JOURNAL - 01)**
Mohapatra, S., **Roy, A.** (2024). *SimPy Simulation to Optimize Remote Patient Monitoring and Server Usage in Healthcare System*. IETE Journal of Research, 1–13. Retrieved on 05-Dec-2024: <https://doi.org/10.1080/03772063.2024.2434575>
(SCI JOURNAL)
Mohapatra, S., **Roy, A.** *Analysing weighted disease symptoms to recommend an expert through an integrated healthcare model*. Discov Public Health 21, 130 (2024). Retrieved on 12-Oct-2024: <https://doi.org/10.1186/s12982-024-00261-3>
- Mohapatra, S., **Roy, A.**, Paikaray, B., (2024), *Enhancing Software Design Through Dynamic Metrics and Entropy: A Case Study in Cloud Security for Healthcare Systems*, International Journal of Business Continuity and Risk Management (Regular Issues, In Press), **(SCOPUS JOURNAL)**

DOI: 10.1504/IJBCRM.2024.10065480 Retrieved on 29-Aug-2024 from:
<https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijbcrm>

• **2023: (SCOPUS JOURNAL - 03)**

Biswas, A., **Roy, A.** (2023), *Decentralized Cloud Banking: Empowering Security and Efficiency with Blockchain, IPFS, and Smart Card Technology*, International Journal of Intelligent Systems and Applications in Engineering, 12(3s), pp. 31–47. **(SCOPUS JOURNAL)** Retrieved on 04-Nov-2023 from:
<https://ijisae.org/index.php/IJISAE/article/view/3659>

Biswas, A., **Roy, A.**, *Enhancing Privacy and Security in Banking through Dynamic ID-based User Authentication System*, European Chemical Bulletin, 2023, 12(10), 3991-3998. DOI: 10.48047/ecb/2023.12.10.279 Retrieved on 22-Oct-2023 from:
www.eurchembull.com/uploads/paper/754c9a6f2977bad950ccf8a5b7bc5a57.pdf

Purkayastha, R., **Roy, A.** *Decentralized and Secure Blockchain-Powered Smart Card-Based Cloud Voting System*, J. Inst. Eng. India Ser. B 104, 651–658 (2023). Retrieved on 21-Oct-2023 from: <https://doi.org/10.1007/s40031-023-00881-4> **(SCOPUS JOURNAL)**

Biswas, A., **Roy, A.** and Nandy, D. *Smart card-based secured cloud banking system using smart contracts*, MIR Labs (USA) IJCISIM, Volume 15(2023), pp. 512-521 ISSN 2150-7988 **(SCOPUS JOURNAL)** Retrieved on 21-Oct-2023 from: http://www.mirlabs.org/ijcism/regular_papers_2023/Paper45.pdf

• **2022: (SCI JOURNAL - 01, SCOPUS JOURNAL - 01)**

Das, T., Moulick, J., Majumdar, A.K., Sarkar, P.K., & **Roy, A.**, (2022). *An ontology based interpretation of legal section for dowry death cases in India*, The Seybold Report Journal 17(07), 1433–1450. Zenodo Publisher, ISSN 1533-9211 Retrieved on 21-Oct-2023 from: <https://zenodo.org/records/6973807> and <https://doi.org/10.5281/zenodo.6973807> **(SCOPUS JOURNAL)**

Mohapatra, S., **Roy, A.**, (2022) *Simple Simulation of Patient Priority-Based Cloud Healthcare System*, IETE Journal of Research, 2022 pp. 1–9 Retrieved on 22-Oct-2023 from: <https://doi.org/10.1080/03772063.2022.2055661> and <https://www.tandfonline.com/doi/full/10.1080/03772063.2022.2055661> **(SCI JOURNAL)**

• **2021: (SCI JOURNAL - 02, SCOPUS JOURNAL - 01)**

Sil, R., Alpana & **Roy, A.**, (2021) *A Review on Applications of Artificial Intelligence Over Indian Legal System*, IETE Journal of Research (Taylor & Francis), pp 1–10 **(SCI JOURNAL)** Retrieved on 22-Oct-2023 from:
<https://doi.org/10.1080/03772063.2021.1987343> and
<https://www.tandfonline.com/doi/full/10.1080/03772063.2021.1987343>

Sil, R., Alpana, **Roy, A.**, Dasmahapatra, M., Dhali, D. (2021). *An intelligent approach for automated argument based legal text recognition and summarization using machine learning*, Journal of Intelligent & Fuzzy Systems, 1–10. Retrieved on 21-Oct-2023 from: <https://doi.org/10.3233/jifs-189867> **(SCI JOURNAL)**

Sil, R., Alpana, **Roy, A.** (2021). *Machine learning approach for automated legal text classification*, International Journal of Computer Information Systems and Industrial Management Applications. ISSN 2150-7988 Volume 13 (2021) pp. 242-251 MIR Labs, Dynamic Publishers, Inc., USA **(SCOPUS JOURNAL)**

Retrieved on 07-Oct-2023 from :

http://www.mirlabs.org/ijcisim/regular_papers_2021/IJCISIM_23.pdf

• **2020:**

Biswas, A., **Roy, A.**, *A Study Of Identifying And Discussing Cloud Computer Threats And Attacks With Mitigation*, Turkish Journal of Computer and Mathematics Education, 2020 Vol. 11 No. 1, pp. 723-729 e-ISSN 1309-4653 Retrieved on 21-Oct-2023 from:

<https://turcomat.org/index.php/turkbilmate/article/view/12780/9201>

• **2019:**

Biswas, A., & **Roy, A.** (2019). *A study on Dynamic ID based user authentication system using smart card*, Asian Journal For Convergence In Technology (AJCT) ISSN 2350-1146, Vol 5 Issue 2 Retrieved on 21-Oct-2023 from: <https://asianssr.org/index.php/ajct/article/view/871/688>

Chowdhury S, **Roy A**, Roy S N, *Gas leakage detection and control from remote location using IoT technology*, International Journal of Emerging Technology and Advanced Engineering (IJETA), June 2019, Volume 9, Issue 6, Pp: 56-61, ISSN (Online): 2250-2459 Retrieved on 21-Oct-2023 from:

https://www.ijetae.com/files/Volume9Issue6/IJETA0619_11.pdf

• **2017:**

Khatun R, Bandopadhyay T, **Roy A**, *Data Modeling for E-Voting System Using Smart Card based E-Governance System*, International Journal of Information Engineering & Electronic Business (IJIEEB), Mar 2017, Volume 9, No 2, Pp:45-52, ISSN (Print): 2074-9023 , ISSN (Online): 2074-9031 Retrieved on 21-Oct-2023 from: <https://doi.org/10.5815/ijieeb.2017.02.06>

• **2015:**

Roy A, *Information Security in E-Governance : A case study based analysis*, International Journal of Research in Engineering & Advanced Technology (IJREAT), Feb-Mar 2015, Volume 3, Issue 1, Pp: 168-173, ISSN 2320-8791 Retrieved on 21-Oct-2023 from:

<http://www.ijreat.org/Papers%202015/Issue13/IJREATV3I1023.pdf>

• **2014:**

Roy A, *Synopsis on Information Security in E-Governance using Cryptography*, International Journal of Advanced Technology in Engineering and Science (IJATES), September 2014, Volume No 02 Special Issue No 01, Pp: 432-445, ISSN (Online) 2348-7550 Retrieved on 21-Oct-2023 from:

http://ijates.com/images/short_pdf/1412180275_392.pdf

Roy A, Karforma S, *Authentication of user in E-Governance : A Digital Certificate based approach*, International Journal of Scientific Research and Management (IJSRM), August 2014, Volume 2 Issue 8, Pp: 1212-1221, ISSN 2321-3418 Retrieved on 21-Oct-2023 from:

<https://ijsrm.net/index.php/ijsrm/article/view/859/752>

Roy A, Karforma S, *E-Governance To E-Commerce : A Smart Transition*, International Journal of Emerging Research in Management and Technology (IJERMT), July 2014, Volume 3 Issue 7, Pp: 82-86, ISSN 2278-9359. Retrieved on 24-Oct-2023 from: https://www.academia.edu/7926905/E-Governance_to_E-Commerce_A_Smart_Transition

Roy A, Karforma S, *E-Governance To E-Health : A Smart Road Map For Society*, The International Journal of Science and Technoledge (The IJST), July 2014, Volume 2 Issue 7, Pp: 217-221, ISSN 2321-919X Retrieved on 24-Oct-2023 from: <https://www.internationaljournalcorner.com/index.php/theijst/article/view/140>

Roy A, Karforma S, *Stream cipher based user authentication technique in E-Governance transactions*, International Society of Thesis Publication Journal of Research in Electrical and Electronics Engineering (ISTP-JREEE), May 2014, Volume 3 Issue 3, Pp: 31-37, ISSN 2321-2667 Retrieved on 24-Oct-2023 from: https://www.academia.edu/7181815/Stream_cipher_based_user_authentication_technique_in_E_Governance_transactions

Roy A, Karforma S, *A Study on implementation of security in E-Governance using cryptography*, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), April 2014, Volume 4 Issue 4, Pp: 652-659, Print ISSN 2277 6451 Online ISSN 2277 128X Retrieved on 24-Oct-2023 from: https://www.academia.edu/7052356/A_study_on_implementation_of_security_in_E_Governance_using_Cryptography?source=swp_share

• **2013:**

Roy A, Karforma S, *Object oriented metrics analysis for implementation of authentication in smart card based E-Governance mechanism*, Researchers World-Journal of Arts, Science and Commerce, October 2013, vol IV, pp. 103-109, Print ISSN 2231-4172 Online ISSN 2229-4686 Retrieved on 22-Oct-2023 from: <https://api.semanticscholar.org/CorpusID:18179831>

Sarkar S, **Roy A**, *Survey on Biometric applications for implementation of authentication in smart Governance*, Researchers World - Journal of Arts, Science and Commerce, October 2013, vol IV, pp. 103-114, Print ISSN 2231-4172 Online ISSN 2229-4686 Retrieved on 22-Oct-2023 from: <https://api.semanticscholar.org/CorpusID:10527678>

• **2012:**

Roy A, Karforma S, *A Survey on digital signatures and its applications*, Journal of Computer and Information Technology, August 2012, Vol 03 No 2, pp. 45-69, ISSN 2229-3531 Retrieved on 21-Oct-2023 from: <http://www.compitjournal.org/paper/292/>

• **2011:**

Roy A, Karforma S, *Risk and Remedies of E-Governance Systems*, Oriental Journal of Computer Science & Technology, December 2011, Vol 04 No 02, Pp: 329-339 ISSN 0974-6471 Retrieved on 21-Oct-2023 from: <https://www.computerscijournal.org/vol4no2/risk-and-remedies-of-e-governance-systems/>

Roy A, Banik S, Karforma S, *Object Oriented Modelling of RSA Digital Signature in E-Governance Security*, International Journal on Computer Engineering and Information Technology (IJCEIT), Summer Edition 2011, Vol 26 Issue No. 01, Pp: 24-33, ISSN 0974-2034

Roy A, Karforma S, *A Survey on E-Governance Security*, International Journal of Computer Engineering and Computer Applications (IJCECA), Fall Edition 2011, Vol: 08 Issue No. 01, Pp: 50-62, ISSN 0974-4983. Retrieved on 24-Oct-2023 from: https://www.academia.edu/5709475/A_survey_on_E_Governance_security?source=swp_share

**BOOK
CHAPTER
PUBLICATION**

- **2025 :**
Biswas, A., **Roy, A.**, Tikader, P., Dhabliya, D., Wanjale, K. H., Pramanik, S., Gupta, A. (2025). *Security of the Tomorrow's Cyber Physical Systems*. In A. Zajac, G. Catenazzo, E. Fragnière (Eds.), *Cases on Security, Safety, and Risk Management* (pp. 21-40). IGI Global. Retrieved on 14-Oct-2024 from: <https://doi.org/10.4018/979-8-3693-2675-6.ch002>
- **2021 :**
Mohapatra, S., Parija, S., **Roy, A.** (2021). *UML Conceptual Analysis of Smart Contract for Health Claim Processing*, In: Panda, S.K., Jena, A.K., Swain, S.K., Satapathy, S.C. (eds) *Blockchain Technology: Applications and Challenges*. Intelligent Systems Reference Library, vol 203. Springer, Cham. Retrieved on 21-Oct-2023 from: https://doi.org/10.1007/978-3-030-69395-4_9
- **2020 :**
Roy A., *Object Oriented Modeling of multifaceted service delivery system using connected governance*, In: *Automated Software Testing: Foundations, Applications and Challenges* by Dr. Ajay Kumar Jena, KIIT University, Bhubaneswar, India, Publisher: Springer, 2020, Retrieved on 21-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-15-2455-4_1 and https://doi.org/10.1007/978-981-15-2455-4_1
- **2014 :**
Roy A., Karforma S, *Data Modeling of a multifaceted electronic card based secure E-Governance system*, Chapter No: 12 of Book *Emerging Mobile and Web 2.0 Technologies for Connected E-Government* by Dr. Zaigham Mahmood, University of Derby, United Kingdom (UK), Published by: IGI Global, USA, May 2014, Pp: 280-299 Retrieved on 21-Oct-2023 from: <https://doi.org/10.4018/978-1-4666-6082-3.ch012> and <https://www.igi-global.com/gateway/chapter/109505>

**BOOK
PUBLICATION**

- **2024 :**
Roy, A., *Information Security in Electronic Governance using Cryptography*, Lambert Academic Publishing, 2024, ISBN 978-620-4-95353-3 (Accepted).
- **2013 :**
Roy A., Karforma S, Banik S, *Implementation of authentication in E-Governance - An UML based approach*, LAP LAMBERT Academic Publishing, 1 Ed, 2013, UK, ISBN 978-3-659-41310-0 Retrieved on 24-Oct-2023 from: <https://www.amazon.in/Implementation-Authentication-Governance-Based-Approach/dp/3659413100>

**INTERNATIONAL
CONFERENCE
PUBLICATION**

- **2024 :**
Mobin, G., **Roy, A.** (2024), *Object Oriented Modeling of Integrated Cloud Transportation System*. In: Abraham, A., Bajaj, A., Hanne, T. (eds) *Intelligent Systems Design and Applications*. ISDA 2023. Lecture Notes in Networks and Systems, vol 1052, July 2024. Springer, Cham. Retrieved on 06-Oct-2024 from: https://doi.org/10.1007/978-3-031-64776-5_25.

Purkayastha, R., **Roy, A.** (2024), *Case study based simulation of online voting system using Simio tool and ChatGPT*, International Conference on Artificial Intelligence Sustainable Computing (AISC 2024), Paper ID : 48, July 11 - 13,

2024, Organized by: Department of Information Technology, B. P. Poddar Institute of Management & Technology, Kolkata & A. K. Choudhury School of Information Technology, University of Calcutta, Kolkata, India.

• **2023 :**

Ghosh, S., Islam, R., Jaman, A., Bose, A., and **Roy, A.** (2023), *ChainHire: A Privacy-Preserving and Transparent Job Search Portal Using an Enterprise-Level Permissioned Blockchain Framework*, 2023 International Conference on Advances in Intelligent Computing and Applications (AICAPS), IEEE Kochi, India, 2023, pp. 1-6, DOI: 10.1109/AICAPS57044.2023.10074582 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/10074582>

• **2022 :**

Biswas, A., **Roy, A.** (2022). *Blockchain-Based User Authentication in Cloud Governance Model*, In: Raj, J.S., Palanisamy, R., Perikos, I., Shi, Y. (eds) Intelligent Sustainable Systems. Lecture Notes in Networks and Systems, vol 213. Springer, Singapore. Retrieved on 22-Oct-2023 from: https://doi.org/10.1007/978-981-16-2422-3_64

A. Biswas, P. K V, A. Kumar Pandey, S. Kumar Shukla, T. Raj and **A. Roy**, *Hybrid Access Control for Storing Large Data with Security*, 2022 International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Bengaluru, India, 2022, pp. 838-844, DOI: 10.1109/IIHC55949.2022.10060094 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/10060094>

Mobin, G. and **Roy, A.**, *Smart card based Integrated Cloud Transportation System*, 2022 International Conference on Electronics and Renewable Systems (ICEARS), Tuticorin, India, 2022, pp. 1588-1596 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/9752142>
DOI: 10.1109/ICEARS53579.2022.9752142

Das, T., **Roy, A.**, Majumdar, A.K. (2022). *Ontology Based Knowledge Visualization for Domestic Violence Cases*, In: Abraham, A., et al. Innovations in Bio-Inspired Computing and Applications. IBICA 2021. Lecture Notes in Networks and Systems, vol 419. Springer, Cham. Print ISBN 978-3-030-96298-2 Retrieved on 22-Oct-2023 from: https://doi.org/10.1007/978-3-030-96299-9_55

Das, T., Sil, R., **Roy, A.**, Majumdar, A.K. (2022). *UML-Based Modelling for Legal Rule Using Natural Language Processing*, In: Sanyal, G., Travieso-González, C.M., Awasthi, S., Pinto, C.M.A., Purushothama, B.R. (eds) International Conference on Artificial Intelligence and Sustainable Engineering. Lecture Notes in Electrical Engineering, vol 836. Springer, Singapore. ISBN: 978-981-16-8541-5 Retrieved on 22-Oct-2023 from: https://doi.org/10.1007/978-981-16-8542-2_39
(BEST PAPER AWARD)

Purkayastha, R., **Roy, A.** (2022). *A Study on Sequential Transactions Using Smart Card Based Cloud Voting System*, In: Abraham, A., et al. Innovations in Bio-Inspired Computing and Applications. IBICA 2021. Lecture Notes in Networks and Systems, vol 419. Springer, Cham. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-3-030-96299-9_61 and https://doi.org/10.1007/978-3-030-96299-9_61

Ghosh., S., Ghosh, A., Ghosh, B., **Roy, A.**, (2022). *Plagiarism Detection in the Bengali Language: A Text Similarity-Based Approach*, 3rd International Confer-

ence on Engineering and Advancement in Technology - 2022, July 08 - 09, 2022, Organized by: Malla Reddy Institute of Engineering and Technology, Telangana & Organization of Science & Innovative Engineering and Technology (OSIET), Chennai, India. Retrieved on 27-Jan-2024 from:
DOI: <https://doi.org/10.48550/arXiv.2203.13430>

• **2021 :**

Biswas, A., **Roy, A.** (2021). *Multilevel User Verification in Cloud Banking System*, In: Balas, V.E., Hassanien, A.E., Chakrabarti, S., Mandal, L. (eds) Proceedings of International Conference on Computational Intelligence, Data Science and Cloud Computing. Lecture Notes on Data Engineering and Communications Technologies, vol 62. Springer, Singapore. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-33-4968-1_41 and https://doi.org/10.1007/978-981-33-4968-1_41

Sil, R., Debnath, N., **Roy, A.** (2021). *Study on Resource Monitoring of E-Healthcare System*, In: Mukherjee, M., Mandal, J., Bhattacharyya, S., Huck, C., Biswas, S. (eds) Advances in Medical Physics and Healthcare Engineering. Lecture Notes in Bioengineering. Springer, Singapore. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-33-6915-3_43 and https://doi.org/10.1007/978-981-33-6915-3_43

Purkayastha, R., and **Roy, A.**, *Static Structure of Smart Card based Cloud Voting System*, 2021 2nd Global Conference for Advancement in Technology (GCAT) IEEE, Bangalore, India, 2021, pp. 1-9 DOI: 10.1109/GCAT52182.2021.9587878 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/9587878>

Sil, R., Saha, D., **Roy, A.** (2021). *A study on argument-based analysis of legal model*, Advances in Intelligent Systems and Computing, 449–457. Retrieved on 21-Oct-2023 from: https://doi.org/10.1007/978-3-030-73603-3_42

Das, T., Mohapatra, S., **Roy, A.** (2021). *Insurance Policy Claim Verification Model of Unnatural Death Cases – An Artificial Intelligence Based Approach*, In: Abraham, A., Sasaki, H., Rios, R., Gandhi, N., Singh, U., Ma, K. (eds) Innovations in Bio-Inspired Computing and Applications. IBICA 2020. Advances in Intelligent Systems and Computing, vol 1372. Springer, Cham. Retrieved on 21-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-3-030-73603-3_41 and https://doi.org/10.1007/978-3-030-73603-3_41

Mobin, G., and **Roy, A.**, *A literature review on cloud based smart transport system*, 2021 5th International Conference on Trends in Electronics and Informatics (ICOEI), Tirunelveli, India, 2021, pp. 1245-1250
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tem, 2021 Asian Conference on Innovation in Technology (ASIANCON) IEEE, Pune, India, 2021, pp. 1-7, DOI: 10.1109/ASIANCON51346.2021.9544953 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/9544953>

Saha, D., Sil, R., **Roy, A.** (2021). *A Study on Implementation of Text Analytics over Legal Domain*, In: Bhateja, V., Peng, S.L., Satapathy, S.C., Zhang, Y.D. (eds) Evolution in Computational Intelligence. Advances in Intelligent Systems and Computing, vol 1176. Springer, Singapore. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-15-5788-0_54 and https://doi.org/10.1007/978-981-15-5788-0_54

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Mohapatra, S., Paul, K., **Roy, A.** (2021). *Object-Oriented Modeling of Cloud Healthcare System Through Connected Environment*, In: Mandal, J., Mukhopadhyay, S., Roy, A. (eds) Applications of Internet of Things. Lecture Notes in Networks and Systems, vol 137 pp. 151-164. Springer, Singapore. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-15-6198-6_14 and https://doi.org/10.1007/978-981-15-6198-6_14

Purkayastha, R., and **Roy, A.**, *An Integrated Environment for Cloud Voting System using Edge Computing*, (January 19, 2021). ICICNIS 2020, pp. 293–306 Retrieved on 11-Oct-2023 from: <https://ssrn.com/abstract=3769149> and <http://dx.doi.org/10.2139/ssrn.3769149>

Gupta, M., Paul, P., **Roy, A.** (2021). *A Study on Cloud Employment Tracking System*, In: Chakraborty, M., Jha, R.K., Balas, V.E., Sur, S.N., Kandar, D. (eds) Trends in Wireless Communication and Information Security. Lecture Notes in Electrical Engineering, vol 740. pp. 353–361 Springer, Singapore. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-33-6393-9_36 and https://doi.org/10.1007/978-981-33-6393-9_36

Paul, S., Bandyopadhyay, K., **Roy, A.** (2021). *A Study on Integrated Cloud Education System*, In: Sengodan, T., Murugappan, M., Misra, S. (eds) Advances in Electrical and Computer Technologies. ICAECT 2020. Lecture Notes in Electrical Engineering, vol 711. pp. 289–295 Springer, Singapore. Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-981-15-9019-1_26 and https://doi.org/10.1007/978-981-15-9019-1_26

• **2020 :**

Das, T., **Roy, A.**, Majumdar, A.K. (2020). *A Study on Legal Knowledge Base Creation Using Artificial Intelligence and Ontology*, In: Raj, J., Bashar, A., Ramson, S. (eds) Innovative Data Communication Technologies and Application. ICIDCA 2019. Lecture Notes on Data Engineering and Communications Technologies, vol 46. Springer, Cham.

Retrieved on 22-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-3-030-38040-3_73 and https://doi.org/10.1007/978-3-030-38040-3_73

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Das T, **Roy A**, Mazumdar A K, *A Study on Legal Knowledge Base Creation using Artificial Intelligence and Ontology*, International Conference on Innovative Data Communication Technologies and Application (ICIDCA), Oct 17 - 18, 2019, In: J. S. Raj et al. (Eds.): ICIDCA 2019, LNDECT 46, pp. 647 – 653, (Springer 2020), Retrieved on 21-Oct-2023 from: https://link.springer.com/chapter/10.1007/978-3-030-38040-3_73 and https://doi.org/10.1007/978-3-030-38040-3_73
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• **2019 :**

Sil R, **Roy A**, Bhushan B, Mazumdar A K, *Artificial Intelligence and Machine Learning based Legal Application: The State-of-the-Art and Future Research Trends*, International Conference on Computing, Communication and Intelligent Systems (ICCCIS), Oct 18-19, 2019, pp. 57–62, DOI: 10.1109/ICCCIS48478.2019.8974479 ISBN 978-1-7281-4826-7 Organized by: Sharda University, Greater Noida, India Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/8974479>

Biswas S, **Roy A**, *An Intrusion Detection System Based Secured Electronic Service Delivery Model*, 3rd International Conference on Electronics Communication and Aerospace Technology (ICECA) 2019, June 12-14, 2019, (IEEE) pp: 1316-1321, ISBN 978-1-7281-0167-5 DOI: 10.1109/ICECA.2019.8822016 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/8822016>

Roy A, *Smart delivery of multifaceted services through connected governance*, 3rd International Conference on Computing Methodologies and Communication (ICCMC) 2019, March 27-29, 2019, IEEE Conference Record 44992, Pp: 476–482, Organized by: Surya Engineering College, Erode, Tamil Nadu, India. ISBN 978-1-5386-7807-7 DOI: 10.1109/ICCMC.2019.8819851 Retrieved on 22-Oct-2023 from: <https://ieeexplore.ieee.org/document/8819851>

- **2013 :** **Roy A**, Karforma S, *Coupling and cohesion analysis for implementation of authentication in EGovernance*, ACEEE Conference Proceedings Series 02, Fourth International Joint Conference-Advances in Engineering and Technology (AET) 2013, December 13-14, 2013 (**Elsevier**), Pp: 544-554, Organized by: The Association of Computer Electronics and Electrical Engineer (ACEEE), The Association of Mechanical and Aeronautical Engineers (AMAE), The Association of Civil and Environmental Engineers (ACEE), Sponsored by : Indian Society for Technical Education (ISTE), NCR, India. ISBN 978-93-5107-193-8 Retrieved on 22-Oct-2023 (Paper ID: AET2013_ACS - 548R) from: <http://aet.theides.org/2013/AET2013Accept.pdf> and https://www.academia.edu/5411106/COUPLING_AND_COHESION_ANALYSIS_FOR_IMPLEMENTATION_OF_AUTHENTICATION_IN_E-GOVERNANCE

- **2012 :** **Roy A**, Karforma S, *Object Oriented approach of Digital Certificate based E-Governance mechanism*, ACEEE Conference Proceedings Series 03, International Conference on IPC&ITEeL ACT&CIIT CENT&CSPE 2012 Proceedings, December 03-04, 2012 (**Elsevier**), pp. 380-386, Organized by: The Association of Computer Electronics and Electrical Engineer (ACEEE), Chennai, India. ISBN 978-93-5107-194-5 Retrieved on 22-Oct-2023 from: <https://api.semanticscholar.org/CorpusID:65010241>

**NATIONAL
CONFERENCE
PUBLICATION**

- **2011** : Sur C, **Roy A**, *Green ICT Culture and Corporate Social Responsibility*, Proceedings of International Conference On Emerging Green Technologies (ICEGT 2011) (Paper ID: CO2011311), July 27-30, 2011, pp. 215-219, Organized by: The Periyar Maniammai University, Tamil Nadu, India Retrieved on 28-Oct-2023 from: https://www.academia.edu/2124168/Green_ICT_Culture_and_Corporate_Social_Responsibility
 - **2010** : **Roy A**, Banik S, Karforma S, Pattanayak J, *Object Oriented Modeling of IDEA for E-Governance security*, Proceedings of International Conference on Computing And Systems- 2010 (ICCS-2010) (Paper ID: 46) November 19 - 20, 2010, Pp:263-269, Organized by: The Department of Computer Science, The University of Burdwan, Burdwan, West Bengal, India. ISBN 93-80813-01-5.
 - **2024** :
Purkayastha, R., **Roy, A**, *Facial recognition based Cloud Voting System using Transfer Learning*, 39th Indian Engineering Congress, Dec 20 - 22, 2024, Organized by: The Institution of Engineers (India), Kolkata, India.
 - **2013** :
Roy A, Karforma S, *UML based modeling of ECDSA for secured and smart E-Governance system*, Computer Science & Information Technology (CS & IT-CSCP 2013), Proceedings of National Conference on Advancement of Computing in Engineering Research (ACER13) organized by Global Institute of Management & Technology (GIMT) in association with IEEE Kolkata Section, Operational Research Society of India (ORSI), Kolkata Chapter and Rural Development Forum, Institution of Engineers-India (IEI), March 22-23, 2013, pp. 207-222, ISSN 2231-5403, ISBN 978-1-921987-11-3, DOI: 10.5121/csit.2013.3219 Retrieved on 22-Oct-2023 from: <https://airccj.org/CSCP/vol3/csit3219.pdf> and <https://api.semanticscholar.org/CorpusID:61642115>
 - **2012** :
Hoda A, **Roy A**, Karforma S, *Application of ECDSA for security of transaction in E-Governance*, Proceedings of Second National Conference on Computing and Systems - 2012 (NaCCS- 2012), March 15-16, 2012, 1st Edition- 2012, pp. 281-286, Organized by: The Department of Computer Science, The University of Burdwan, India. ISBN 978-93-80813-18-9.
- Sarkar S, **Roy A**, *A Study on Biometric based Authentication*, Proceedings of Second National Conference on Computing and Systems - 2012 (NaCCS- 2012), March 15-16, 2012, 1st Edition- 2012, pp. 263-268 Organized by: The Department of Computer Science, The University of Burdwan, India. ISBN 978-93-80813-18-9.
- Roy A**, Sarkar S, Mukherjee J, Mukherjee A, *Biometrics as an authentication technique in E-Governance security*, Proceedings of UGC sponsored National Conference on Research And Higher Education In Computer Science And Information Technology, RHECSIT-2012 February 21-22, 2012, Vol:1, pp. 153-160, Organized by: The Department of Computer Science, Sammilani Mahavidyalaya in collaboration with Department of Computer Science and Engineering, University of Calcutta, India. ISBN 978-81-923820-0-5.
- **2011** :
Roy A, Sur C, Sarkar S, *WEEE menace- An Asian Perspective*, Proceedings of All India Seminar on Computational Breakthrough: Green Computing Challenges & Issues, April 29-30, 2011, pp. 71-75, Organized by: The Computer

**ADVANCED
TRAININGS
ATTENDED**

Engineering Division West Bengal State Centre, Institution of Engineers India.

• **2010 :**

Sur C, **Roy A**, Banik S, *A Study of the State of E-Governance in India*, Proceedings of National Conference on Computing & Systems- 2010 (NACCS-2010), January 29, 2010, pp. (a)-(h), Organized by: The Department of Computer Science, The University of Burdwan, India. ISBN 8190-77417-4.

2024 :

NIT Kurukshetra : Short-Term Course on Machine Learning And Vision Algorithms (MIVA-2024), Sept 12 - 16, 2024, Organized by: Department of Computer Applications, National Institute of Technology Kurukshetra, India.

NIT Kurukshetra : Short-Term Course on Artificial Intelligence and Machine Learning for Engineering Applications (AIMLEA-2024), August 10 - 14, 2024, Organized by: Department of Electronics & Communication Engineering, National Institute of Technology Kurukshetra, India.

MeitY, Govt. of India & NIT Warangal : 40 hours Faculty Development Programme on AI in Cloud Computing: Theory, Practice and Applications, April 15 - 26, 2024, sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India, organised by E&ICT Academy, NIT Warangal and Dept. of Computer Science & Engineering, NIT Warangal, Telangana State, India.

2023 :

Electronics & ICT Academy, IIT Roorkee : Faculty Development Programme on AI & Machine Learning for Computer Vision Applications, Organized by Electronics and ICT Academy, Indian Institute of Technology Roorkee, Dec 18 - 22, 2023.

C-DAC Chennai & VIT Chennai : A Five days FDP on Research Issues and Challenges in Big Data and Analytics - Tools, Techniques and Applications : An Industry Perspective, organized by C-DAC Chennai and School Of Computer Science and Engineering (SCOPE), VIT, Chennai, Oct 16 - 21, 2023.

NITTTR, Kolkata : One week Faculty Development Programme on Fundamentals of Machine Learning and Deep Learning, National Institute of Technical Teachers Training and Research (NITTTR), Kolkata, Established by Ministry of Human Resource Development, Govt. of India, Sept 25 - 29, 2023.

VIT Chennai : A Five-Day Online Faculty Development Program (FDP) on Research & Funding Opportunities in Computer Science (ReFOCUS)'23, Sept 11 - 15, 2023, VIT, Chennai, India.

MeitY, Govt. of India & NIT Warangal : 40 hours Faculty Development Programme on Cyber Security, Aug 28 - Sept 06, 2023, sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India, organised by E&ICT Academy, NIT Warangal and Bonam Venkata Chalamayya Engineering College (Autonomous), Odalarevu, Andhra Pradesh, India.

2022 :

NIT Warangal : 30 hours online course on Machine Learning for Data Science using Python. Organized by: Center for Continuing Education, National Institute of Technology Warangal, July 16 - 30, 2022.

2019 :

NITTTR, Kolkata : Short Term Training Programme (STTP) on Application of MATLAB Control System, Image Processing, Fuzzy Logic Tool box and GUI, National Institute of Technical Teachers Training and Research (NITTTR), Kolkata, Established by Ministry of Human Resource Development, Govt. of India, July 15 - 19, 2019.

2017 :

NITTTR, Kolkata : Short Term Training Programme (STTP) on Image Processing using Matlab, National Institute of Technical Teachers Training and Research (NITTTR), Kolkata, Established by Ministry of Human Resource Development, Govt. of India, June 19 - 30, 2017

2016 :

National Institute of Technology, Durgapur : TEQIP - II Sponsored One Week Short Term Course on Smart Sensing and Intelligent Systems (SSIS 2016). Organized by: Department of Electrical Engineering, National Institute of Technology, Durgapur, June 14 - 18, 2016

2015 :

National Board for Higher Mathematics (NBHM) & LNM Institute of Information Technology, Jaipur : National Workshop on Cryptography (NWC-2015). Sponsored & Organized by: National Board for Higher Mathematics, DAE, Govt. of India & LNM Institute of Information Technology, Jaipur, December 14 - 20, 2015

NITTTR, Kolkata : Short Term Training Programme (STTP) on Exposure on Matlab, National Institute of Technical Teachers Training and Research (NITTTR), Kolkata, Established by Ministry of Human Resource Development, Govt. of India, May 25 - June 05, 2015.

NITTTR, Kolkata : Short Term Training Programme (STTP) on Database Design and Practice, National Institute of Technical Teachers Training and Research (NITTTR), Kolkata, Established by Ministry of Human Resource Development, Govt. of India, May 18 - 22, 2015.

2014 :

Indian Statistical Institute : Winter School on Interplay between Statistics and Cryptology, Applied Statistics Unit, Indian Statistical Institute, Kolkata, December 01 - 05, 2014.

2009 :

Dept. of Science & Tech., Govt. of India & Indian Statistical Institute : Workshop on Digital Image Processing and Synthesis co-sponsored by Department of Science & Technology, Govt. of India & Indian Statistical Institute, Kolkata from December 14, 2009 to January 22, 2010.

RCCIIT, Kolkata : Short term training program on Data Warehousing and Data Mining under the Staff Development Program sponsored by AICTE and RCCIIT held from July 06-18, 2009.

**WORKSHOPS
SEMINARS
CONFERENCES
ATTENDED**

● **2024 :**

St. Xavier's University, Kolkata: Five Days Workshop on Xavtech International Talk, Organized by: St. Xavier's University, Kolkata, India, Sept 02 - 06, 2024.

CSI, Kolkata Chapter: Workshop on Building AI with Integrity: How to Ensure Safe and Fair AI Development, Organized by: Computer Society of India, Kolkata Chapter, August 21, 2024.

● **2017 :**

ACM Kolkata Chapter & Amity University: ACM India Annual Event.

Conducted by: Calcutta University and Amity University, Kolkata January 21, 2017.

- **2016 :**

GPU Centre of Excellence (GCOE), IIT Bombay Amity University: Workshop on Parallel Computing with GPUs. Conducted by: GPU Centre of Excellence (GCOE), IIT Bombay. Organized by: Amity School of Engineering & Technology, Amity University, Kolkata, April 27, 2016.

- **2015 :**

Indian Statistical Institute, Kolkata : Workshop on Logic and Computability (WLC15). Organized by: Indian Statistical Institute (ISI), Kolkata, September 16 - 17, 2015

- **2014 :**

Computer Society of India - Kolkata Chapter & Indian Statistical Institute, Kolkata : Fourth International Conference on Emerging Applications on Information Technology (EAIT 2014). Organized by: Computer Society of India, Kolkata Chapter and Indian Statistical Institute (ISI), Kolkata, December 19 - 21, 2014.

Indian Statistical Institute, Kolkata : Workshop on Data and Security. Organized by: Electronics and Communication Sciences Unit, Indian Statistical Institute (ISI), Kolkata, September 22, 2014.

The University of Burdwan, Burdwan : One day Workshop on Revised Syllabi of 3 years B.Sc (Hons. & Gen) Courses of Studies in Computer Science, August 06, 2014. Organized by: Department of Computer Science, The University of Burdwan, Burdwan, W.B, India.

- **2013 :**

ACEEE, NCR : 4th International Joint Conference on Advances in Engineering and Technology (AET) 2013, December 13-14, 2013, Organized by: The Association of Computer Electronics and Electrical Engineer (ACEEE), The Association of Mechanical and Aeronautical Engineers (AMAE), The Association of Civil and Environmental Engineers (ACEE), Sponsored by : Indian Society for Technical Education (ISTE).

Bhabha Atomic Research Centre (BARC), Govt. of India, Mumbai: 14th International Conference on Cryptology in India (INDOCRYPT 2013), December 07-10, 2013, Organized by: Homi Bhabha National Institute, Mumbai under the aegis of the Cryptology Research Society of India.

Defence Research & Development Organization (DRDO), Govt. of India, New Delhi : National Workshop on Cryptology-2013, October 03-05, 2013, organized by Scientific Analysis Group (SAG), Defence Research & Development Organization (DRDO), Ministry of Defence, Government of INDIA under the aegis of Cryptology Research Society of India (CRSI).

National Institute of Science & Technology (NIST), Berhampur : Workshop on Modern Trends in Soft Computing & Security Issues, September 23-28, 2013, organized by Center for Soft Computing Research (CSCR), Indian Statistical Institute (ISI), Kolkata and National Institute of Science & Technology (NIST), Berhampur, Odisha-761008.

CUSAT, Cochin : National Instructional Workshop in Cryptology, May 06-10, 2013, organized by Department of Mathematics, Cochin University of Science And Technology (CUSAT), Cochin-22, Kerala, INDIA and sponsored by Cryptology Research Society of India (CRSI).

GIMT, IEEE - Kolkata, ORSI, Krishnagar : National Conference on Advancement of Computing in Engineering Research (ACER13), organized by Global Institute of Management & Technology (GIMT) in association with IEEE

Kolkata Section, Operational Research Society of India (ORSI), Kolkata Chapter and Rural Development Forum, Institution of Engineers - INDIA (IEI), Krishnagar, March 22-23, 2013.

• **2012 :**

Indian Statistical Institute, Kolkata : 13th International Conference on Cryptology in India (INDOCRYPT 2012), Organized by: Cryptology Research Society of India, Indian Statistical Institute (ISI), Kolkata, December 09-12, 2012.

ACEEE, Chennai : Second International Conference on Computational Intelligence and Information Technology - CIIT 2012, organized by The Association of Computer Electronics and Electrical Engineer (ACEEE), Chennai, December 03-04, 2012.

Dr. B. C. Roy Engineering College, Durgapur : Silver Jubilee Workshop on Cognitive Science - An Emerging Paradigm, jointly organized by IEEE Computational Intelligence Society, Kolkata Chapter and Department of Computer Science & Engineering and Department of Information Technology, Dr. B. C. Roy Engineering College, Durgapur, November 20, 2012.

VIT University, Vellore : National Workshop on Cryptology (An Annual Event of CRSI), Organized by: School of Information Technology and Engineering, Vellore Institute of Technology University & Cryptology Research Society of India, sponsored by NBHM, DRDO, CSIR, Vellore, August 06 - 08, 2012.

RCCIT, Kolkata : Seminar series on Advances in Information & Communication Technology Emerging Trends & Challenges Under TEQIP-II, Organized by RCC Institute of Information Technology, Kolkata, July 24-26, 2012.

The University of Burdwan, Burdwan : Second National Conference on Computing and Systems - 2012 (NaCCS - 2012) organized by the Department of Computer Science, The University of Burdwan, March 15 - 16, 2012.

Calcutta University, Kolkata : UGC sponsored National Conference on Research And Higher Education In Computer Science And Information Technology (RHECSIT-2012), Organized by: Department of Computer Science, Sammilani Mahavidyalaya in collaboration with Department of Computer Science and Engineering, University of Calcutta, February 21-22, 2012.

Indian Statistical Institute, Kolkata : Workshop on Bioinformatics (WBI12), Organized by: Center for Soft Computing Research, Indian Statistical Institute (ISI), Kolkata, February 15 -17, 2012.

• **2011 :**

Indian Statistical Insitute, Kolkata : Hash Workshop on SHA3 Finalists, Organized by: Centre of Excellence in Cryptology, Indian Statistical Institute (ISI), Kolkata, December 09 -10, 2011.

Calcutta University & Indian Statistical Institute, Kolkata : Tutorial Workshop on Cryptology Jointly Organized by: University of Calcutta & Centre of Excellence in Cryptology, Indian Statistical Institute, July 16 -17, 2011.

Institution of Engineers (IE) : All India Seminar on Computational Breakthrough: Green Computing Challenges & Issues, Organized by: The Computer Engineering Division (West Bengal State Centre), The Institution of Engineers (India), April 29-30, 2011.

Indian Statistical Institute, Kolkata : Workshop on Support Vector Machine and Kernel Learning, Organized by: Indian Statistical Institute (ISI), Kolkata, March 22-23, 2011.

• **2010 :**

The University of Burdwan, Burdwan : International Conference on Computing and Systems-2010, Organized by: Department of Computer Science, The University of Burdwan, November 19 - 20, 2010.

Indian Institute of Technology, Bombay : Workshop on Introduction to Robotics, Organized by: Indian Institute of Technology Bombay, June 24-25, 2010.

The University of Burdwan, Burdwan : National Conference on Computing and Systems-2010, Organized by: Department of Computer Science, The University of Burdwan, January 29, 2010.

• **2009 :**

RCCIIT, Kolkata : Workshop on Computer Networking and FPGA Based Real Time System Designing, Organized by: Department of Computer Science & Engineering, RCCIIT sponsored by IEEE (Calcutta Section), June 23-24, 2009.

Institute of Engineering & Management (IEM), Kolkata : Workshop on System Security & Wi-Fi Networking, Organized by: Institute of Engineering & Management (IEM), April 18, 2009.

INDUSTRIAL VISIT

- Antum Lab LLP, W.B., India : July 02 - 10, 2019. Ref. AL/19/07/001 Date 10/07/2019 LLP IN: AAO-9684, Certificate No.: DIPP36908 URL: www.antumlabs.com Email: contact@antumlabs.com

INTERNATIONAL JOURNAL MEMBERSHIPS

- Editorial Board Member : International Journal of Computer Science and Software Engineering (IJCSSE), Dubai, UAE. E-ISSN 2409-4285.
- Editorial Board Member : Computer Applications : An International Journal (CAIJ). ISSN 2393-8455.
- Advisory Board Member: The World Academy of Research in Science and Engineering (WARSE).

SESSION CHAIR

- ADCIS 2022 : International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2022), Sept 23 - 25, 2022. Organized by: BITS Pilani, K K Birla Goa Campus, India and Soft Computing Research Society, India.

REVIEWER

- InC4 2023 : International Conference on Contemporary Computing and Communications (InC4 2023), April 21 - 22, 2023. Organized by: Christ Deemed to be University, Bangalore and IEEE (Flagship Conference) Computer Society Bangalore Chapter, India.
- AIC 2022 : 2022 IEEE World Conference on Applied Intelligence and Computing (AIC 2022), June 17 - 19, 2022. Organized by: Rajkiya Engineering College, Sanbhadra, India and Soft Computing Research Society, India.
- CIAIS 2021 : International Conference on Computational Intelligence in Analytics and Information Systems (CIAIS 2021), April 02 - 03, 2021. Organized by: Manav Rachna University, Faridabad, India.

- ICCS 2015 : International Conference on Cyber Security (ICCS) 2015, May 16 - 17, 2015, California, USA.

INTERNATIONAL CONFERENCE MEMBERSHIPS

- **2024:** Technical Program Committee Member : 2nd International Conference on Social Sciences, Economics, Management and Education, July 15 - 17, 2024, Qingdao, China Publisher: Atlantis Press (Part of Springer Nature). Retrieved on 23-Dec-2023 from: <http://www.sseme.org/Committee.aspx>
Technical Committee Member : 2024 International Conference on Mechanical Manufacturing, Robotics and Control Engineering, June 29 - 30, 2024, China. Retrieved on 01-Feb-2024 from: <https://mnrce.easyaca.com.cn/page/523>

Technical Program Committee Member : 2024 International Conference on Sustainable Technologies in Civil and Environmental Engineering (ICSTCE 2024), June 06 - 07, 2024, Pune, Maharashtra, India. Retrieved on 24-Dec-2023 from: <http://icstce.com/technical-program-committee-national/>

Technical Program Committee Member : IEEE 5th International Conference Of Emerging Technologies 2024 (INCET-2024), May 24 - 26, 2024, Belgaum, India. Retrieved on 23-Dec-2023 from: <http://www.incet.org/technical-program-committee/>

Technical Program Committee Member : IEEE 3rd International Conference on Innovation in Technology (INOCON) 2024, March 03, 2024, Bangalore, India. Organizer: Sai Vidya Institute of Technology (SVIT), Bangalore, India. Retrieved on 25-Dec-2023 from: <http://inoconf.org/index.php/tpc-chairs-and-members/>

Technical Program Committee Member : 18th INDIACom; 11th 2024 International Conference on Computing for Sustainable Global Development (INDIACom-2024), IEEE Conference ID: 61295, SCOPUS Indexed, Feb 28 - March 01, 2024, Organizer: Bharati Vidyapeeth, Delhi, India. Retrieved on 23-Dec-2023 from: <https://www.bvicam.ac.in/indiacom/technicalProgrammeCommittee.asp>

Program Committee Member : 7th International Conference on Electrical Engineering (ELEC 2024), Jan 13 - 14, 2024. Virtual Conference. Retrieved on 01-Feb-2024 from: <https://elec2024.org/committee>

- **2023:** Technical Program Committee Member : International Conference on Mathematics, Computer Science & Engineering (MATHCS 2023), Dec 30 - 31, 2023, Virtual Conference. Retrieved on 24-Dec-2023 from: <https://maths2023.org/committee>
- **2022:** Program Committee Member : 2022 IEEE World Conference on Applied Intelligence and Computing (AIC 2022), June 17 - 19, 2022, Organizer: Rajkiya Engineering College, Sonbhadra, Uttar Pradesh, India and Soft Computing Research Society.
- **2020:** Technical Program Committee Member : International Conference for Emerging Technology (INCET) (IEEE), June 05 - 07, 2020, Karnataka, India. Organizer : Jain College of Engineering, Karnataka.
Technical Program Committee Member : International Conference on Computer Communication and Internet of Things (ICCCIOT) 2020 (Springer), Feb 03 - 04, 2020, Agartala, India. Organizer: Tripura University (A Central University). Sponsored by: North Eastern Council, Government of India, Agartala, India.

- **2019:** Program Committee Member : 7th International Conference on Advances in Computer Science and Engineering (ICACSE), December 21 - 22, 2019, Kuala Lumpur, Malaysia. Organizer : World Academy of Research in Science and Engineering (WARSE).

Program Committee Member : 10th International Conference on Computing, Engineering and Communication Technologies (ICCECT), October 02 - 03, 2019, Kuala Lumpur, Malaysia. Organizer : World Academy of Research in Science and Engineering (WARSE).

Program Committee Member : 6th International Conference on Advances in Computer Science, Engineering and Technology (ICACSET), September 16, 2019, Hyderabad, India. Organizer : World Academy of Research in Science and Engineering (WARSE).

Program Committee Member : 10th International Conference on Computer Science, Engineering and Technologies (ICCSET), September 02 - 03, 2019, Bangkok, Thailand. Organizer : World Academy of Research in Science and Engineering.

- **2018:** Program Committee Member : 8th International Conference on Computing, Engineering, Communication Technologies (ICCECT 2018). July 2018, Kuala Lumpur, Malaysia. Organizer : World Academy of Research in Science and Engineering (WARSE).

Program Committee Member : 3rd International Conference on Bio-Medical Informatics and e-Health (ICBIeH). March 19 - 20, 2018, Bangkok, Thailand. Organizer : World Academy of Research in Science and Engineering (WARSE).

- **2016:** Program Committee Member : International Conference on Innovations in Computer Science and Information Technologies (ICICIT 2016), March 14, 2016, Mysore, INDIA. Organizer : World Academy of Research in Science and Engineering (WARSE).

Organizing Committee Member : 3rd International Conference on Computing & Systems (ICCS) 2016, January 21 - 22, 2016, Organizer : Department of Computer Science, The University of Burdwan, Burdwan 713104, West Bengal, India.

- **2015:** Technical Program Committee Member : International Conference on Computers and Management (ICCM) 2015, December 16 - 17, 2015, Jaipur, Rajasthan, India.

Program Committee Member : International Conference on Networking, Wireless Communications and e-Technologies (ICNWCeT) 2015, October 02 - 03, 2015, Singapore. Organizer : World Academy of Research in Science and Engineering (WARSE).

Program Committee Member : International Conference on Advances in Electrical, Electronics, Computing and Communications Engineering (ICAEECC) 2015, October 02 - 03, 2015, Singapore. Organizer : World Academy of Research in Science and Engineering (WARSE).

Program Committee Member : International Conference on Cyber Security (ICCS) 2015, May 16 - 17, 2015, California, USA.

- **2013:** Organizing Committee Member : Second International Conference on Computing & System (ICCS) 2013, Organizer : Department of Computer Science, The University of Burdwan, Bardhaman, W.B, India 713104.