



Profile of Asoke Nath, M.Sc,Ph.D.,M.C.A, D.Litt

**Associate Professor
Department of Computer Science
St. Xavier's College(Autonomous)
30, Park Steet
Kolkata-700 016
West Bengal
India**

e-mail: asokejoy1@gmail.com, asokejoy@sxccal.com

1. Passed M.Sc. in Physics in 1976 from University of North Bengal.
2. Obtained Ph.D. in Science in 1984 from University of North Bengal.
3. Worked as Full-time Research Scholar in Indian Association For the Cultivation of Science from 1978-1981 and as Part-Time Research Scholar from 1982-1984.
4. Worked as Research Officer in NSF Project(USA) in Indian Association for the Cultivation of Science from 1984-1986
5. Worked as Full-time Lecturer-in-Physics in Dinhata College, Cooch Behar from 1981-1984.
6. Worked as Computer Programmer at Rabindra Bhavan, Viswa Bharati University from 1986-1987.
7. Joined as Assistant Director of St. Xavier's Computer Centre on 12-th February 1987.
8. The designation Assistant Director has been changed to Executive Director since April 1st 1992.
9. Passed M.C.A. from Sikkim Manipal University in 2009.
10. Obtained Honorary Doctor of Letters(D.Litt)(Hon.) on 30/05/2018 from International Economics University, Maldives for contribution in Cryptography and Network Security.
11. **Google Scholar Link:** <https://scholar.google.co.in/citations?user=Xs1Hit0AAAAJ&hl=en>
Total Citations as on 18/6/2025: 4061, h-index: 34
12. **Research Gate Link :** <https://www.researchgate.net/profile/Asoke-Nath-4>

Research Experience:

From 1978-1981 he was actively involved in research work in Theoretical work on Crystal field theory. Did post doctoral work on "Chaos in non linear optics" from 1984-1987 and published several papers in renowned International Journals. During his Ph.D. work and post doctoral work he has done massive computational work in main frame computer. From 1986 he completely switch over to computer science. Attended various National and International seminars, conference on computers. Presently he involved in research work on Cryptography, Steganography, Image Processing, Quantum Cryptography, Green Computing. Presented a

Paper on Symmetric Key cryptography in World Congress on Computer Science held at Las Vegas in USA in July-2010. Presented 2 papers and one tutorial session at Worldcomp-2011 held at Las Vegas from 18/07/2011 to 21/07/2011. Presented Tutorial entitled “Cryptography and Network Security” in World Congress WICT 2011 held at Mumbai University on 11/12/2012.

Currently engaged in various research projects of undergraduate level and also Post graduate in Computer science. An UGC minor research project on “Cryptography” approved in November-2010. Started working on Pervasive computing and Quantum Cryptography.

Teaching Experience:

Approximately taught 3 years B.Sc. Physics in under graduate college. Actively teaching in various topics of Computer Science in various courses at the Computer centre since 1987. He was the founder Head of the Department of Computer Science in 1998 when the dept formed at St. Xavier’s College. He was acting as the head of the department of computer science from 1998 to 2008. He is actively taking classes on various subjects of computer science in under graduate level from 2001. He acted as visiting faculty of A.K.Chaudhury School of IT, Raja Bazar Science College for taking classes in MCA and M.Tech(IT). He is also the part-time MCA counselor of IGNOU . The subjects normally he take classes are computer fundamentals, Operating system : MSDOS, WINDOWS, LINUX , computer languages : C,C++,FORTRAN,.Pascal, NET and C#,JAVA,MATLAB and SIMULINK, Visual Basic., Database S/W : ORACLE 9i, DBA-I and II, Database Tuning, ACCESS. Electronic Spread Sheet: EXCEL, Computer Graphics, Operations Research, Linear Programming problem, Numerical Methods, Discrete Mathematics, Compiler Theory, Finite State Automation, Cryptography, Steganography, Digital Signal Processing, Design of Web Page using HTML,XML and Javascript .

Job Experience:

1. Worked as Lecturer-in-Physics from 1981-1984 in an under graduate college
2. Worked as Programmer in computer in Rabindra Bhavan,Viswa Bharati University from 1986-1987.
3. Working as Assistant Director and then as Executive Director of the Computer Centre of St. Xavier’s College(Autonomous).
4. Worked as Part-time Assistant Co-ordinator of IGNOU study centre code-2802(St. Xavier’s College study centre) from 1991 to 1994.
5. Working as part-time Co-ordinator of IGNOU study centre code-2802 from 1995.

Other Activities:

He is actively involved in distance education system. Participated in various Interactive Radio Counselling sessions of IGNOU on Distance Education from Calcutta –B and from Gyan Vani FM channel. He had also conducted various Examination special Programmes from Kolkata Doordarshan Kendra for 10+2 Computer Science students. He is a life member of CSI Calcutta Chapter. He is also member of IEEE.

List of Publications:

1981-1987

1. Configuration mixing and crystal field splitting of Fe^{2+} and Cu^{2+} ions : A.Nath, C.Basu and U.S.Ghosh, **Indian J. Phys.** **55A**,277-280(1981).
2. Ligand Field Theory of Magnetic Behaviours of Neodymium Ethylsulphate Nonahydrate : A.Nath, U.S.Ghosh, **Phys. Stat. Sol.(b)** **Vol. 112**, P-187-192(1982).
3. Interpretation of the optical, magnetic and thermal behaviours of thulium ethyl sulphate: A.Nath, **Indian J. Phys.** **57A**, 279-282(1983).
4. Interpretation of the Optical and Magnetic Behaviours of $\text{Pr}_2\text{Mg}_3(\text{NO}_3)_{12} \cdot 24\text{H}_2\text{O}$: A.Nath, **Journal of Physical Society of Japan**, **Vol. 52**, No.9, September, pp 3244-3247(1983).
5. Absorption and Circular Dichroism Spectra of a Single Crystal $\text{K}_3\text{Pr}_2(\text{NO}_3)_9$: Prabir Kumar Chatterjee, Asoke Nath, Debnarayan Nath and Mihir Chowdhury, **Chem. Phys. Lett.** **Vol.110**, No 1, Page 95-98(1984).
6. Interpretation of Optical & Magnetic Behaviour of Praseodymium Ethyl Sulphate : A.Nath, R.Gupta and C.Basu, **Indian J. of Pure and Appl. Phys.**, **Vol. 23**, P-415-417(1985).
7. Chiroptical activity of $^8\text{S} \rightarrow ^6\text{P}$ transitions in Gadolinium pyrogermanate single crystal, **Chemical physics Letters**, **Vol 118**, No.4, page 427-430(1985).
8. Critical Instability in the Semiclassical N-atom Jaynes-Cummings Model : Asoke Nath, Deb Shankar Ray, **Phys. Letts. A**, **Vol. 116**, No.3, P-104-106(1986).
9. Chaos in an exciton-biexciton two-oscillator model : Asoke Nath, Deb Shankar Ray, **Phys. Rev. B**, **Vol. 34**, No.5, P-4472-4475(1986).
10. Chaos in inelastic light scattering dielectric crystals : Asoke Nath, Deb Shankar Ray, **Phys. Rev. B**, **Vol.34**, No.4, P-2929-2932(1986).
11. Global Critical Instability in Atom-Field Interaction: Asoke Nath, Deb Shankar Ray, **Phys. Letts A**, **Vol. 117**, No.7, P 341-344(1986).
12. Horseshoe-shaped maps in chaotic dynamics of atom-field interaction: Asoke Nath, Deb Shankar Ray, **Phys. Rev A**, **Vol.36**, No 1, P 431-434(1987).
13. Period-doubling bifurcations in stimulated Raman scattering : Asoke Nath, Deb Shankar Ray, **Phys. Rev A**, **Vol 35**, No.4, P-1959-1962(1987).

2010:

14. Symmetric Key Cryptography using Random Key generator : Asoke Nath, Saima Ghosh, Meheboob Alam Mallik: “**Proceedings of International conference on security and management(SAM’10)**” held at Las Vegas, USA Jull 12-15, 2010), **Vol-2**, Page: 239-244(2010).
15. Data Hiding and Retrieval : Asoke Nath, Sankar Das, Amlan Chakraborti, published in **IEEE “Proceedings of International Conference on Computational Intelligence and Communication Networks (CICN 2010)”** held from 26-28 NOV’2010 at Bhupal, Page: 392-397(2010).

2011:

16. Advanced steganographic approach for hiding encrypted secret message in LSB, LSB+1, LSB+2 and LSB+3 bits in non standard cover files: Joyshree Nath, Sankar Das, Shalabh Agarwal and Asoke Nath, **International Journal of Computer Applications**, **Vol14-No.7**,Page-31-35, Feb(2011).

17. Advanced Symmetric key Cryptography using extended MSA method: DJSSA symmetric key algorithm: Dripto Chatterjee, Joyshree Nath, Soumitra Mondal, Suvadeep Dasgupta and Asoke Nath, **Jounal of Computing, Vol 3, issue-2, Page 66-71, Feb(2011).**
18. Advanced Steganography Algorithm using encrypted secret message : Joyshree Nath and Asoke Nath, **International Journal of Advanced Computer Science and Applications, Vol-2, No-3, Page-19-24, March(2011).**
19. Some Challenges in Designing and Implementing Learning material for Ubiquitous e-learning Environment: Shalabh Agarwal and Asoke , **Journal of Global Research in Computer Science, Vol-2, No2, Page-29-32, Feb(2011).**
20. A Challenge in hiding encrypted message in LSB and LSB+1 bit positions in any cover files : executable files, Microsoft office files and database files, image files, audio files and video files : Joyshree Nath, Sankar Das, Shalabh Agarwal and Asoke Nath : **JGRCS, Vol-2, No.4, Page:180-185, April (2011)**
21. A new Symmetric key Cryptography Algorithm using extended MSA method :DJSA symmetric key algorithm, Dripto Chatterjee, Joyshree Nath, Suvadeep Dasgupta and Asoke Nath : **Proceedings of IEEE International Conference on Communication Systems and Network Technologies, held at SMVDU(Jammu) 03-06 June, 2011, Page-89-94(2011).**
22. New Symmetric key Cryptographic algorithm using combined bit manipulation and MSA encryption algorithm: NJSSA symmetric key algorithm :Neeraj Khanna, Joel James, Joyshree Nath, Sayantan Chakraborty, Amlan Chakrabarti and Asoke Nath : **Proceedings of IEEE CSNT-2011 held at SMVDU(Jammu) 03-06 June 2011, Page 125-130(2011).**
23. New Data Hiding Algorithm in MATLAB using Encrypted secret message :Agniswar Dutta, Abhirup Kumar Sen, Sankar Das, Shalabh Agarwal and Asoke Nath : **Proceedings of IEEE CSNT-2011 held at SMVDU(Jammu) 03-06 June 2011, Page 262-267(2011).**
24. Application of Radio Frequency Controlled Intelligent Military Robot in DefensSaradindu Naskar, Soumik Das, Abhik Kumar Seth and Asoke Nath : **Proceedings of CSNT-2011 held at SMVDU(Jammu) 03-06 June 2011, Page 396-401(2011).**
25. Social Media :The new Corporate Playground, Shalabh Agarwal, Akash Mondal and Asoke Nath : **International Journal of Research and Reviews in Computer Science(IJRRCS), Vol 2, No.3, June, Page-696-700 (2011).**
26. "Green Computing - a new Horizon of Energy Efficiency and Electronic waste minimization": a Global Perspective, Shalabh Agarwal and Asoke Nath : **Proceedings of IEEE CSNT-2011 held at SMVDU(Jammu) 03-06 June 2011, Page 688-693(2011).**
27. An efficient data hiding method using encrypted secret message obtained by MSA algorithm: Joyshree Nath, Meheboob Alam Mallik , Saima Ghosh and Asoke Nath : **Proceedings of the International conference Worldcomp 2011 held at Las Vegas(USA), 18-21 Jul(2011), Page 312-318, Vol-1(2011)**
28. Symmetric key Cryptography using modified DJSSA symmetric key algorithm, Dripto Chatterjee, Joyshree Nath, Sankar Das, Shalabh Agarwal and Asoke Nath, **Proceedings of International conference Worldcomp 2011 held at LasVegas 18-21 July 2011, Page-306-311, Vol-1(2011).**
29. Intelligent Agents in Defense and Warfare Some Ethical Issues in Global Perspectives, Sahon Bhattarcharyya, Shalabh Agarwal and Asoke Nath, **Proceedings of IEEE International conference held at Gwalior, Vol-2, page 4-8(2011).**

30. An Integrated symmetric key cryptography algorithm using generalized vernam cipher method and DJSa method: DJMNA symmetric key algorithm : Debanjan Das, Joyshree Nath, Megholova Mukherjee, Neha Chaudhury and Asoke Nath: **Proceedings of IEEE International conference : World Congress WICT-2011 to be held at Mumbai University 11-14 Dec, 2011, Page No.1203-1208(2011).**
31. Symmetric key cryptosystem using combined cryptographic algorithms- generalized modified vernam cipher method, MSA method and NJJSAA method: TTJSA algorithm – Trisha Chatterjee, Tamodeep Das, Joyshree Nath, Shayan Dey and Asoke Nath, **Proceedings of IEEE International conference : World Congress WICT-2011 t held at Mumbai University 11-14 Dec, 2011, Page No. 1179-1184(2011).**
32. A new randomized data hiding algorithm with encrypted secret message using modified generalized Vernam Cipher Method: RAN-SEC algorithm, Rishav Ray, Jeeyan Sanyal, Tripti Das, Kaushik Goswami, Sankar Das and Asoke Nath, **Proceedings of IEEE International conference : World Congress WICT-2011 held at Mumbai University 11-14 Dec, 2011, Page No. 1215-1220 (2011).**
2012:
33. SXC-JMS: A Web-based Journal Management System—Sahon Bhattacharyya, Kalayan Mondal, Shalabh Agarwal, Asoke Nath, **Proceedings of International Conference on Software Engineering(JSE 2012) held at Bangalore Jan 3-4,Page: 417-427(2012).**
34. Symmetric key Cryptography using two-way updated – Generalized Vernam Cipher method: TTSJA algorithm, **International Journal of Computer Applications(IJCA, USA), Vol 42, No.1, March, Pg: 34 -39(2012).**
35. Ultra Encryption Standard(UES) Version-I: Symmetric Key Cryptosystem using generalized modified Vernam Cipher method, Permutation method and Columnar Transposition method, Satyaki Roy, Navajit Maitra, Joyshree Nath,Shalabh Agarwal and Asoke Nath, **Proceedings of IEEE sponsored National Conference on Recent Advances in Communication, Control and Computing Technology-RACCCT 2012, 29-30 March held at Surat, Page 81-88(2012).**
36. Application of Decision Diagrams to design Quantum Logic Circuits, Joyshree Nath and Asoke Nath, **Journal of Global Research in Computer Science(JGRCS), Volume 3, No. 3, March , Page-5-8(2012).**
37. A Comprehensive Study of Target Prediction Algorithms for Animal MicroRNAs(miRNAs),**International Journal of Computer Applications(0975-8887,USA), Joyshree Nath, Asoke Nath, Vol-40, No 15(Feb),(2012).**
38. A new Challenge of hiding any encrypted secret message inside any Text/ASCII file or in MS word file : RJDA Algorithm, Rishav Ray, Jeeyan Sanyal, Debanjan Das and Asoke Nath, **Proceedings of IEEE CSNT-2012 conference held at Rajkot May 11-13, 2012, Page:889-893(2012).**
39. Laser Beam Operated Windows Operation, Pramit Dey, Ayan Paul, Dipanjan Saha, Siladitya Mukherjee and Asoke Nath, **Proceedings of IEEE CSNT-2012 conference held at Rajkot May 11-13, 2012, Page:889-893(2012).**
40. Design and Analysis of e-Journal Management Systems: SXC International Journal of Advanced Computing Sciences (SXC-IJACS), Sahon Bhattacharyya, Kalyan Mondal, Shalabh Agarwal and Asoke Nath, **Proceedings of IEEE CSNT-2012 conference held at Rajkot May 11-13, 2012, Page:913-918(2012).**
41. A new data hiding algorithm with encrypted secret message using TTJSA symmetric key crypto system, Sayak Guha, Tamodeep Das, Saima Ghosh, Joyshree Nath, Sankar Das, Asoke Nath, **Journal of Global Research in Computer Science, Vol 3, No.4, Page-11-16(2012).**

42. E-Learning Methodologies and its Trends in Modern Information Technology, Joyshree Nath, Saima Ghosh, Shalabh Agarwal, Asoke Nath, , **Journal of Global Research in Computer Science, Vol 3, No.4, Page-48-52(2012).**
43. Open and Distance Learning (ODL) Education System : Past, Present and Future – A systematic study of an alternative Education System, Saima Ghosh, Joyshree Nath, Shalabh Agarwal, Asoke Nath, , **Journal of Global Research in Computer Science, Vol 3, No.4, Page-53-57(2012).**
44. Advanced Digital Steganography using Encrypted Secret Message and Encrypted Embedded Cover File, Joyshree Nath, Saima Ghosh and Asoke Nath, International Journal of Computer Applications(IJCA 0975-8887), **Vol 46, No-14, May ,(2012).**
45. An Integrated Symmetric Key Cryptographic Method – Amalgamation of TTJSA Algorithm, Adbvanced Caesar Cipher Algorithm, Bit Rotation and reversal Method : SJA Algorithm., International Journal of Modern Education and Computer Science, Somdip Dey, Joyshree Nath, Asoke Nath,(IJMECS), **ISSN: 2075-0161 (Print), ISSN: 2075-017X (Online), Vol-4, No-5, Page 1-9,2012.**
46. An Advanced Combined Symmetric Key Cryptographic Method using Bit manipulation, Bit Reversal, Modified Caesar Cipher(SD-REE), DJSA method, TTJSA method: SJA-I Algorithm, Somdip dey, Joyshree Nath, Asoke Nath, **International Journal of Computer Applications(IJCA 0975-8887, USA), Vol. 46, No.20, Page- 46-53,May, 2012.**
47. Green Computing Endeavor in Higher Educational Institutes – a noble initiative towards Sustainable IT Infrastructure, Shalabh Agarwal, Archana Vimal, Saima Ghosh, Asoke Nath, **Journal of Computing(USA), Vol 4, issues 5, May, ISSN-9617, Page-217-222, 2012.**
48. Advanced Steganography Algorithm Using Randomized Intermediate QR Host Embedded with Any Encrypted Secret Message : ASA_QR Algorithm, Somdip dey, Kalyan Mondal, Joyshree Nath, Asoke Nath, **International Journal of Modern Education and Computer Science, No.6, Page 59-67, 2012.**
49. Ultra Encryption Standard Modified(UES) Version-I: Symmetric Key Cryptosystem with Multiple Encryption and Randomized Vernam Key using generalized Modified Vernam Cipher Method, Permutation method and Columnar Transposition Method, Satyaki Roy, Navajit Maitra, Shalabh Agarwal, Joyshree Nath, Asoke Nath, **International Journal of Modern Education and Computer Science, No.7, Page 31-41(2012).**
- 50 Ultra Encryption Standard(UES) Version-III: Advanced Sysmmetric Key Cryptosystem with Bit-level Encryption Algorithm, Satyaki Roy, Navajitb Maitra, Shalabh Agarwal, Joyshree Nath, Asoke Nath, **International Journal of Modern Education and Computer Science, No.7, Page 50-56(2012).**
51. Modified Caesar Cipher method applied on Generalized Modified Vernam Cipher method with feedback, MSA method and NJJSAA method: STJA Algorithm, Somdip Dey, Joyshree Nath and Asoke Nath, **Proceedings of International Conference Worldcomp 2012 held at Las Vegas, USA, FCS-12, Page-112 – 119(2012).**
52. Ultra Encryption Standard(UES) Version-II: Symmetric key Cryptosystem using

generalized modified vernam cipher method, permutation method, columnar transposition method and TTJSA method, Satyaki Roy, Navajit Moitra, Joyshree Nath, Shalabh Agarwal and Asoke Nath, **Proceedings of International Conference Worldcomp 2012 held at Las Vegas, USA, FCS-12, Page-97 – 104(2012).**

53. Data hiding algorithm using two-way encryption and embedding in a cover file – A new method for sending password or confidential message, Joyshree Nath, Saima Ghosh and Asoke Nath, **Proceedings of International Conference Worldcomp 2012 held at Las Vegas, USA, IPCV-12, Page-414 – 420(2012).**
54. A New Technique to Hide Encrypted Data in QR CodesTM, Somdip Dey, Joyshree Nath and Asoke Nath, **Proceedings of International Conference Worldcomp 2012 held at Las Vegas, USA, ICOMP-12, Page-94 – 101(2012).**
55. Design of a Laser Controlled Keyboard for Physically Challenged People., Ayan Paul, Pramit Dey, Dipanjan Saha and Asoke Nath, **Proceedings of International Conference Worldcomp 2012 held at Las Vegas, USA, IPCV Page-425-431 (2012).**
56. Ultra Encryption Algorithm(UEA): Bit level Symmetric key Cryptosystem with Randomized Bits and Feedback Mechanism, **International Journal of Computer Applications(IJCA) USA, Vol-49, No.5, Page-34-40(2012).**
57. Ultra Encryption Standard(UES) Version-IV: New Symmetric Key Cryptosystem with bit-level columnar Transposition and Reshuffling of Bits, Satyaki Roy, Navajit Maitra, Joyshree Nath, Shalabh Agarwal and Asoke Nath, **International Journal of Computer Applications(IJCA)(0975-8887) USA Volume 51-No.1.,Aug, Page. 28-35(2012).**
58. Bit Level Encryption Standard(BLES) : Version-I, Neeraj Khanna, Dripto Chatterjee, Joyshree Nath and Asoke Nath, **International Journal of Computer Applications (IJCA)(0975-8887) USA Volume 52-No.2.,Aug, Page.41-46(2012).**
59. Bit Level Encryption Standard(BLES) : Version-II, Gaurav Bhadra, Tanya Bala, Samaik Banik, Joyshree Nath and Asoke Nath, **Proceedings of IEEE International Conference WICT-2012 held at IITM-K, Trivandrum Oct 30 to Nov 1, 2012, Page No. 121-127(2012).**
60. Modern Encryption Standard(MES) version-I : An Advanced Cryptographic Method, Somdip Dey, Asoke Nath, **Proceedings of IEEE International Conference WICT- 2012 held at IITM-K, Trivandrum Oct 30 to Nov 1, 2012, Page No. 242-247(2012).**
61. A new algorithm for Quantitative deciphering of pre-mature MiRNAs using some Statistical Parameters, Joyshree Nath, Asoke Nath, **Proceedings of IEEE International Conference WICT-2012 held at IITM-K, Trivandrum Oct 30 to Nov 1, 2012, Page No. 595-601(2012).**
62. Digital Divide: A Comprehensive Approach to Integrate State and Community Experiences into ICT Policy Framework from Indian Perspective, I. Maria Joseph, Asoke Nath, **Proceedings of IEEE International Conference WICT-2012 held at IITM-**

63. Bit Level Generalized Modified Vernam Cipher Method with Feedback, **International Journal of Advanced Computer Research**(ISSN(print):2249- 7277 ISSN(online): 2277-7970), **Volume-2, Number-4 Issue-6, Page-24-30, Dec(2012).**
64. A Comparative study on E-Commerce Models: Merits, Demerits and Future Scope, Debasri Dey, Asoke Nath, **International Journal of Advanced Computer Research**(ISSN(print):2249-7277 ISSN(online): 2277-7970), **Volume-2, Number-4 Issue-6, Page-163-168, Dec(2012).**
65. A Modified Algorithm for Quantifying of Pre-mature MiRNAs Some Fractal Parameters, Joyshree Nath, asoke Nath , **International Journal of Advanced Computer Research**(ISSN(print):2249- 7277 ISSN(online):2277-7970),**Volume-2 , Number-4 Issue-6, Page-202-207, Dec(2012).**
66. Some Software and Smart Cities: A study on Green Software and Green Technology to develop a smart urbanized world, Mourjo Sen, Anubavh Dutt, Jennifer Shah, Shalabh Agarwal, Asoke Nath, **International Journal of Advanced Computer Research** (ISSN(print):2249-7277 ISSN(online): 2277-7970), **Volume-2, Number-4 Issue-6, Page-373-380, Dec(2012).**
67. Desktop Virtualization and Green Computing Solutions, Shalabh Agarwal and Asoke Nath, **The Second International Conference on "Soft Computing for Problem Solving (SocProS 2012)" published in the proceedings of the conference SocPros 2012 which will be held in December 28 - 30, 2012 and will be published in Conference proceedings in AISC series of Springer. 2013:**
68. Study on key Issues and Critical Success Factors of e-Supply Chain Management in Health Care Services, Debasri Dey, Asoke Nath, **International Journal of Advanced Computer Research, Vol-3, No.1, Issue-3(march),pp. 7-13(2013).**
69. A Study on implementing Green IT in Enterprise 2.0, Shalabh Agarwal, Asoke Nath, **International Journal of Advanced Computer Research, Vol-3, No.1, Issue-3(march),pp. 43-49(2013).**
70. A Comprehensive study on Cloud Green Computing : To Reduce Carbon Footprints Using Clouds,Chiranjeeb Roy Chowdhury, Arindam Chatterjee, Alap Sardar, Shalabh Agarwal, Asoke Nath, **International Journal of Advanced Computer Research, Vol-3, No.1, Issue-3(march),pp. 78-85(2013).**
71. Application of Green computing in Framing Energy Efficient Software Engineering, Aritra Mitra, Riya Basu, Avik Guha, Shalabh Agarwal, Asoke Nath, **International Journal of Advanced Computer Research, Vol-3, No.1, Issue-3(march),pp. 117-121(2013).**
72. Green Software Engineering Process : Moving Towards Sustainable Software Product Design, Shantanu Ray, Nabaraj Sengupta, Koustav Maitra, Kaushik Goswami, Shalabh Agarwal, Asoke Nath, **Journal of Global Research in Computer Science(ISSN-2229-371X), Vol-4, No.1, pp.25-29(2013).**
73. Image Denoising Algorithms : A Comparative study of Different Filtration approaches

used in image restoration, Asoke Nath, **Proceedings of IEEE International Conference CSNT-2013 held at Gwalior April 6-8,2013, Page-157-163.**

74. Issues of privacy and security in the role of software in smart cities, Mourjo Sen, Anuvabh Dutt, Shalabh Agarwal, Asoke Nath, **Proceedings of IEEE International Conference CSNT-2013 held at Gwalior April 6-8,2013, Page-518-523.**
75. Modern Encryption Standard (MES) : Version-II, Rahul Deep Sircar, Gunjan Sekhon, Asoke Nath, **Proceedings of IEEE International Conference CSNT-2013 held at Gwalior April 6-8,2013, Page-506-511.**
76. Confidential Encrypted Data Hiding and Retrieval Using QR Authentication System, Somdip Dey, Asoke Nath, Shalabh Agarwal **Proceedings of IEEE International Conference CSNT-2013 held at Gwalior April 6-8,2013, Page-512-517.**
77. Integration of Massive Open Online Education(MOOC) System with in_Class Room Interaction and Assessment and Accreditation: An extensive report from a pilot study” , I. Maria Joseph, Asoke Nath, **Proceedings of International conference Worldcomp 2013 held at Las Vegas, USA in Jul 22-25, 2013. Proceedings Page 103-111(2013)**
78. Some issues and Challenges in E-learning Methodologies and E-assessment System, I. Maria Joseph, Asoke Nath, **Proceedings of International conference Worldcomp 2013 held at Las Vegas, USA. Proceedings page 138-143(2013).**
79. Bit Level Encryption Standard(BLES): Ver-III, Gaurav Bhadra, Tanya Bala, Samik Banik, Joyshree Nath, Asoke Nath, **Proceedings of International Conference Worldcomp 2013 held at Las Vegas, USA in Jul 22-25, 2013. Proceedings page 99-105(2013).**
80. Advanced Symmetric Key Cryptosystem using Bit and Byte Level Encryption Methods with Feedback” dvanced Symmetric Key Cryptosystem using Bit and Byte Level Encryption methods with Feedback, Prabal Banerjee, Asoke Nath, **Proceedings of InInternational Conference Worldcomp 2013 held at Las Vegas, USA in Jul 22-25, 2013.Proceedings Page 120-126(2013).**
81. Modern Encryption Standarad(MES): version III, Rahul Sircar, Gunjan Sekhon, Asoke Nath, **Proceedings of International Conference held at Las Vegas, USA in Jul 22-25, 2013, Proceedings page 127-135(2013).**
82. Some issues and Challenges in E-learning Methodologies and E-assessment System, I. Maria Joseph, Asoke Nath, **Proceedings of International Conference Worldcomp 2013 held Las Vegas, USA in Jul 22-25,2013. Proceedings page138-143(2013)**
83. Green Computing and Green Technology in e-Learning, Corporate, Business and IT Sectors, Shalabh Agarwal, Shreya Goswami, Asoke Nath, **International Journal of Computer Applications(IJCA), Vol 76, No.7, (August), Pp. 35-41(2013).**
84. Modern Encryption Standard version IV(MES-IV): Asoke Nath, Payel Pal, **International Journal of Advanced Computer Research, Vol-2, Number-3, issue-11, Sept, pp 216-223(2013).**
85. Modern Encryption Standard version V(MES-V): Asoke Nath, Bidhusundar Samanta, **International Journal of Advanced Computer Research, Vol-2, Number-3, issue-11, Sept, pp 257-264(2013).**
86. Multi Way Feedback Encryption Standard(MWFES) : Ver-I : Purnendu Mukherjee, Prabal Banerjee, Asoke Nath, **International Journal of Advanced Computer Research, Vol-2, Number-3, issue-11, Sept, pp 176-182(2013).**

87. Green Computing and Green Technology based teaching learning and administration in Higher Education Institutions: Shalabh Agarwal, Kaustuvi Basu, Asoke Nath Asoke Nath, Bidhusundar Samanta, **International Journal of Advanced Computer Research, Vol-2, Number-3, issue-11, Sept, pp 295-303(2013).**
88. Computational Study of secondary structure of Premature miRNA and inclusion of Finite State Automation, joyshree Nath, Asoke Nath, **published in IEEE conference proceedings : WICT-2013 held at Hanoi in Dec 14-18(2013), page 292-299(2013).**
89. Multi Way Feedback Encryption Standard Ver-3(MWFES-3), Asoke Nath, Debdeep Basu, Ankita Bose, Saptarshi Chatterjee, Surajit Bhowmik, **published in IEEE conference proceedings : WICT-2013 held at Hanoi , Dec 14-18, Page 318-325(2013).**
90. Mathematical modeling of various statements of C-type Language, Manoj Kumar Srivastav , Asoke Nath, **International Journal of Advanced Computer Research(IJACR), Vol-3,Number-1, Issue-13, Page:79-87 Dec(2013).**
91. Multi Way Feedback Encryption Standard Ver-2(MWFES-2), Asoke Nath, Debdeep Basu, Ankita Bose, Saptarshi Chatterjee, Surojit Bhowmik , **International Journal of Advanced Computer Research(IJACR), Vol 3, Number-1, Issue-13, Page-29-35, Dec(2013).**
92. Modified Multi Way Feedback Encryption Standard(MWFES) : Ver-I : Prabal Banerjee, Purnendu Mukherjee, Asoke Nath, **International Journal of Advanced Computer Research(IJACR),Vol-3, No.1, Issue-13, Page 352-360, Dec(2013).**
93. Modified Multi way feedback Encryption Standard Ver-2(MWFES-2), Saptarshi Chatterjee, Debdeep Basu, Ankita Bose, Surajit Bhowmik, Asoke Nath, **JGRCS, Vol 4, No. 12, December, 2013, Page 8-13(2013).**
- 2014:**
94. Massive Open Online Courses(MOOCs) – A Comprehensive study and its Application to Green Computing in Higher Education Institution , Asoke Nath, Sha;abh Agarwal, **International Journal of Emerging Trends in Engineering Research(IJETER), Vol.2, No.2, Page-7-14, Feb(2014).**
95. Mathematical Description of variables, pointers, structures, Unions used in C-type language, Manoj Kumar Srivastava, Asoke Nath, **Journal of Global Research in Computer Science, Vol-5, No.2, Page: 24-29, Feb(2014).**
96. Prasita Mukherjee, Sourasekhar Banerjee, Asoke Nath, Data Hiding Algorithm using Variable Block Size in Cover Image File , **International Journal of Computer Applications(IJCA), Volume 89 – No 13, Page: 11-20, 26 March, 2014.**
97. Shalabh Agarwal, Rana Biswas, Asoke Nath, “Virtual Desktop Infrastructure in Higher Education Institution : Energy Efficiency as an application of Green Computing, **published in Proceedings of IEEE conference CSNT-2014 held at Bhopal, page-601-605, April 7(2014).**
98. Ankita Basu, Debdeep Basu, Saptarshi Chatterjee, Asoke Nath, Surajit Bhowmik, Bit Level Multi Way Feedback Encryption Standard Ver-1(BLMWFES-1), **published in Proceedings of IEEE conference CSNT-2014 held at Bhopal, page-601-605, April 7(2014),page-793-799, April 7(2014).**

99. Manoj Kumar Srivastava, Asoke Nath, A Mathematical Modeling of Object Oriented Programming Language : a case study on Java programming language, **Current Trends in Technology and Science(CTTS) Vol-3, Issue-3, Page 134-141,(2014).**
100. Sougata Mandal, Sankar Das, Asoke Nath, Data Hiding and Retrieval using Visual Cryptography, **International Journal of Innovative Research in Advanced Engineering(IJIRAE), Vol-1 Issue 1, Page 102-110(April 2014).**
101. Asoke Nath , Bit level Multi Way Feedback Encryption Standard Ver-2 (BLMWFES-2) , **proceedings of International IEEE conference Advanced Communication, Control & Computing Technologies(ICACCCT) 2014 held at Syed Ammal Engineering College, Page 1702-1707(2014).**
102. Shalabh Agarwal, Arnab Datta, Asoke Nath, “Impact of Green Computing in IT Industry to make Eco Friendly Environment”, **Journal of Global Research in Computer Science(JGRCS), Vol 5, No.4, Page 5-10(April 2014).**
103. Manoj Kumar Srivastav, Asoke Nath, “Analysis of Compilation Errors, Runtime Errors, Reliability and Validity of a Program: A Case Study on C-language”, **International Journal of Innovative Science, Engineering & Technology(IJSET), Vol. I, Issue 3, May 22, Page 281-288(2014).**
104. Abhijit Karmakar, Asoke Nath, “E-Learning Methodologies, Strategies and Tools to implement lifetime education anywhere anytime”, **International Journal of Innovative Research in Advanced Engineering(IJIRAE), Vol 1 ,Issue 4, Page 193-201, May 30, 2014.**
105. Shalabh Agarwal, Surajit Bhowmik, Aneesh De, Asoke Nath, “E-Waste Management is an Emerging Challenge in the Globe : A Pilot Study in Indian Scenario”, **International Journal of Innovative Research in Advanced Engineering(IJIRAE), Vol 1 ,Issue 4,Page 76-81, May 30, 2014.**
106. Joyshree Nath, Asoke Nath, “Quantitative Deciphering of pre-mature and pattern recognition of mature miRNAs using some Statistical Parameters “,**International Journal of Computer Information Systems and Industrial Management Applications(IJCISIM)ISSN 2150-7988 Volume 6 pp. 184-195(2014).**
107. Asoke Nath, Abhijit Karmakar, Totan Karmakar, “Moocs Impact in Higher Education Institution: A Pilot Study in Indian Context”, **International Journal of Engineering Research and Applications, ISSN:2248-9622, Vol. 4, Issue 7 (ver 3), pp. 156-163, July 2014.**
108. Parag Chatterjee, Asoke Nath, “APPLICATION OF SMART COMPUTING IN INDIAN RAILWAY SYSTEMS “,**International Journal of Scientific Research and Management Studies (IJSRMS) ,ISSN: 2349-3371 Volume 1 Issue 5, pg: 148-155 , Aug 2014.**
109. Parag Chatterjee, Asoke Nath, “Smart Computing Applications in Railway Systems -A case study in Indian Passenger Railways Reservation System”, **International Journal of Advanced Trends in Computer Science and Engineering, Volume 3, No.4, July – August, pp. 61-66, 2014.**

110. Surojit Bhowmik, Debdeep Basu, Ankita Bose, Saptarshi Chatterjee, Asoke Nath, “Modified Feedback Encryption Standard Version-1(MAFS-1)”, **Journal of Information Assurance and Society**, ISSN: 1554-1010, Vol-9, Issue-5, PP. 244-254, Sept, 2014.
111. Debdeep Basu, Ankita Bose, Surajit Bhowmik, Saptarshi Chatterjee, Asoke Nath, “Advanced Feedback Encryption Standard Version-1(AFES-1)”, **International Journal of Computer Applications(0975-8887)** Vol 103, No.3, Oct 18, Page 13-22(2014).
112. Manoj Kumar Srivastav, Asoke Nath, “Mathematical foundations of Multithreaded programming concepts in Java language”, **International Journal of Innovative Research in Information Security(IJIRIS)**, ISSN:23-7017(O), 2349-7009(P), Vol 1, Issue 4, October 29, page 6-17, 2014.
113. Parag Chatterjee, Asoke Nath, “Information Technology in public transports of India – A ubiquitous approach”, **International Journal of Advance Research in Computer Science and Management Studies**, ISSN:2321-7782(Online), Vol 2, Issue 10, Oct, Page:111-118(2014).
114. Arijit Ghosh, Prabhakar Chakraborty, Asoke Nath, Shamindra Parui, “3d Multi Way Feedback Encryption Standard Version I(3dMWFES-1)”, **International Journal of Advance Research in Computer Science and Management Studies**, ISSN:2321-7782(Online), Vol 2, Issue 10, Oct, Page:206-218(2014).
115. Arijit Ghosh, Asoke Nath, “Cryptography Algorithms using Artificial Network”, **International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)**, Vol-2, Issue 11, Page: 375-381, Nov(2014).
116. Chaitali Patra, Asoke Nath, “**International Journal of Advance Research in Computer Science and Management Studies**”, Vol. 2, Issue 11, November, Page: 533-542(2014).
117. Prabhakar Chakraborty, Asoke Nath, “**Application of Parallel Co-ordinate System to Visualize Multivariate Data Sets**”, **International Journal of Innovative Research in Advanced Engineering(IJIRAE)**, Vol-1, Issue 11, Page: 25-29, Nov(2014).
118. Ranjini Mukhopadhyay, Asoke Nath, “**Ethical Hacking : Scope and Challenges in 21st Century**”, **International Journal of Innovative Research in Advanced Engineering(IJIRAE)**, Vol-1, Issue 11, Page: 30-37, Nov(2014).
119. Monish Kumar Dutta, Asoke Nath, “**Scope and Challenges in Visual Cryptography**”, **International Journal of Innovative Research in Advanced Engineering(IJIRAE)**, Vol-1, Issue 11, Page: 38-46, Nov(2014).
120. Shalabh Agarwal, Reddhi Sekhar Basu, Asoke Nath, “**Green Computing and Sustainable Environment – Introduction of E-documents and Replacement of Printed Stationeries**”, **International Journal of Innovative Research in Information Security(IJIRIS)**, Vol-1, Issue 5, Page: 46-53, Nov(2014).
121. Shamindra Parui, Asoke Nath, “**A Pilot Study on Current and Future Trends in E-learning, Distance Learning and Online Teaching Learning Methodologies**”,

122. Manoj Kumar Srivastav, Asoke Nath, **“A New Mathematical Model of Exception Handling in Java Object Oriented Language”, International Journal of Computer Applications(0975-8887)(IJCA), Vol 107-No 7, 17 Dec, Page 29-36(2014).**
123. Parag Chatterjee, Asoke Nath, **“Paper-ID: 158: Massive Open Online Courses (MOOCs) in Education – A Case Study in Indian Context and Vision to Ubiquitous Learning” published in Proceedings of 2nd IEEE International Conference on MOOCs, Innovation and Technology in Education held at Thapar University, Patiala, Punjab, India, Dec 19-21, 2014.**
124. Parag Chatterjee, Asoke Nath, **“Paper-ID: 251: Massive Open Online Courses (MOOCs) in Higher Education – Unleashing the Potential in India” published in Proceedings of 2nd IEEE International Conference on MOOCs, Innovation and Technology in Education held at Thapar University, Patiala, Punjab, India, Dec 19-21, 2014.**
125. Dona Sarkar, Asoke Nath, **“Big Data – A Pilot Study on Scope and Challenges” , International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS, ISSN: 2371-7782), Volume 2, Issue 12, Dec 31, Page: 9-19(2014).**
126. Sunanda Dutta, Asoke Nath, **“Data Authentication using Digital Water Marking”,International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS, ISSN: 2371-7782), Volume 2, Issue 12, Dec 31, Page: 30-45(2014).**
127. Pritha Roy, Asoke Nath, **“New Steganography approach using encrypted secret message inside Audio and Video media” ,International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS, ISSN: 2371-7782), Volume 2, Issue 12, Dec 31, Page: 46-59(2014).**

2015:

128. Parag Chatterjee, Asoke Nath, **“The Future ICT Education in India- A Pilot Study on Vision of Ubiquitous Learning in Higher Education”, (Springer Publication), Information Systems Design and Intelligent Applications Advances in Intelligent and Computing, Jan 21, Vol-340, pp. 599-609(2015).**
129. Raghav Toshniwal, Kaniksha Ghosh Dastidar, Asoke Nath, **“Big Data Security Issues and Challenges”, International Journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 23-2163, Issue 2, Volume 2, Page 15-20(February 2015).**
130. Shalabh Agarwal, Chaitali Patra, Asoke Nath, **“ Application of Smartphone in Social Area Networks: An Initiative Towards Green Computing”, International Journal of Emerging Technology and Advanced Engineering(IJETAE), ISSN 2250-2459, Vol 5, Issue 2, page 328-334(Feb 2015).**

131. Shubham Chatterjee, Asoke Nath, **“The roll Of Information and Communication Technologies in rural Development in India”, International Journal of Emerging and Texhnology and Advanced Engineering(IJETAE), Vol.5, Issue 3, Page:152-157, March, 2015.**
132. Parag Chatterjee, Asoke Nath, **“Biometric Authentication for UID based Smart and Ubiquitous Services in India” (Paper-id: 471), published in proceedings of IEEE International conference CSNT-2015 held at Gwalior in April 04-06, 2015.**
133. Manoj Kumar Srivastav, Asoke Nath, **“Study on Mathematical Modeling of Social Networks”, International Journal of Emerging Technology and Advanced Engineering(IJETAE, ISSN 2250-2459), Vol 5, Issue 3, page: 611-618(Apr 10 2015).**
134. Sankar Das, Sandipan Chowdhury, Dibya Chakraborty, Arijit Das, Asoke Nath, **“Visual Cryptography using Three Independent Shares in Color Images”, International Journal of Innovative Research in Advanced Engineering(IJIRAE, ISSN: 2349-2163), Issue-4, Volume 2,Page: 32-39(Apr 10 2015).**
135. Sayantan Majumdar, Abhishek Maiti, Biswarup Bhattacharyya, Asoke Nath, **“A new encrypted data hiding algorithm inside a QR Code™ implemented for an Android Smartphone system: S_QR algorithm”, International Journal of Innovative Research in Advanced Engineering(IJIRAE, ISSN: 2349-2163), Issue-4, Volume 2,Page: 40-46(Apr 10 2015).**
136. Shalabh Agarwal, Shamik Chakraborty, Ankita Bhaumik, Asoke Nath, **“Trends and Awareness in Green Computing Initiatives: a Comprehensive Study” , International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), Vol. 3, Issue 4, Page 1-10, (April 2015).**
137. Asoke Nath, **“Are we safe with Cellphones/Smartphones ? A Comprehensive study on Evil Effects on Human Health”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), Vol-3, Issue 4, Page 253-262,(April 2015).**
138. Manoj Kumar Srivastav, Asoke Nath, **“Mathematical Modeling of Social Networks: Reliability and Security of relationship among different nodes in Social Networks”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), Vol-3, Issue 4, Page 263-271,(May 2015).**
139. Manoj Kumar Srivastav, Asoke Nath, **“Mathematical Modeling of Mutual Relationship and Countable Extension of Connected Nodes in Social Networking”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), Vol-3, Issue 5, Page 1-6,(May 2015).**
140. Sayantan Majumdar, Abhishek Maiti, Biswarup Bhattacharyya, Asoke Nath, **International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), Vol-3, Issue 5, Page 21-31,(May 2015).**
141. Anurag Sarkar, Shalabh Agarwal, Abir Ghosh, Asoke Nath, **“Impacts of Social Networks: A Comprehensive Study on Positive and Negative Effects on Different Age**

Groups in a Society”, **International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)**, Vol-3, Issue 5, Page 177-190,(May 2015).

142. Asoke Nath, Sneha Mukherjee, “Impact of Mobile Phone/Smartphone: A Pilot study on positive and negative effects”, **International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)**, Vol-3, Issue 5, Page 294-302,(May 2015).
143. Shubham Chatterjee, Shalabh Agarwal, Asoke Nath, “Scope and Challenges in Light Fidelity(LiFi) Technology in Wireless Data Communication”, **International Journal of Innovative Research in Advanced Engineering(IJIRAE)** ISSN:2349-2163, Issue 6, Vol. 2, Page 1-9(June 2015).
144. Saurav Biswas, Umair Rahman, Asoke Nath, “A new Approach to Control a Robot using Android Phone and Colour Detection Technique”, **International Journal of Computer Science and Information Technologies(IJCSIT)**, Vol.6(3), Page 2985-2989(June 2015).
145. Arijit Ghosh, Prabhakar Chakraborty, Asoke Nath, “3d Multi Way Feedback Encryption Standard Version II(3dMWFES-II)”, **International Journal of Computer Science and Information Technologies(IJCSIT)**, Vol.6(3), Page 2990-2997(June 2015).
146. Monish Dutta, Pritha Roy, Sunanda Datta, Asoke Nath, “A New Method for Recognition of Handwritten Characters Using Edge Detection, Segmentation and Pattern Matching”, **International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE)**, Vol-3, Issue 6, Page 5012-5023(30-th June 2015).
147. Asoke Nath, Ranjini Mukherjee, Dona Sarkar, Chaitali Patra, “2-Dimensional Multi Way Feedback Encryption Standard Version-1(2dMWFES-1)”, **International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)**, Vol-3, Issue 6, Page 5024-5033(30-th June 2015).
148. Anurag sarkar, Shalabh Agarwal, Asoke Nath, “Li-Fi Technology: Data Transmission through Visible Light”, **International Journal of Advance Research in Computer Science and Management Studies(ISSN:2231-7782(Online))**, Vol 3, Issue 6, Page: 1-12,(June 30 , 2015).
149. Triparna Mukherjee, Asoke Nath, “Cognitive Radio-Trends, Scope and Challenges in radio Network Technology”, **International Journal of Advance Research in Computer Science and Management Studies(ISSN:2231-7782(Online))**, Vol 3, Issue 6, Page: 87-108,(June 30 , 2015).
150. Triparna Mukherjee, Asoke Nath, “Cognitive Radio Network Architecture and Security Issues: A Comprehensive Study”, **International Journal of Advanced Research in Computer Science and Software Engineering(ISSN 2277 128X)**, Vol-5, Issue-6, Page:124-133,June(2015).
151. Triparna Mukherjee, Asoke Nath, “Issues and Challenges in Spectrum management in Cognitive Radio Networks”, **Current Trends in Technology and Science ISSN :**

152. Sayantan Majumdar, Abhishek Naiti, Biswarup Bhattacharyya, Asoke Nath, **“A New Bit-level Columnar Transposition Encryption Algorithm”, International Journal of Advance Research in Computer Science and Management Studies (IJARCSMS) (ISSN:2321-7782), Vol 3, issue 7, Page : 176-184(2015).**
153. Anurag Sarkar, Abir Ghosh, Asoke Nath, **“MapReduce : A Comprehensive Study on Applications, Scope and Challenges”, International Journal of Advance Research in Computer Science and Management Studies (IJARCSMS) (ISSN:2321-7782), Vol 3, issue 7, Page : 256-272(2015).**
154. Proyag Pal, Triparna Mukherjee, Asoke Nath, **“Challenges in Data Science: A Comprehensive Study on Application and Future Trends”, International Journal of Advance Research in Computer Science and Management Studies (IJARCSMS) (ISSN:2321-7782), Vol 3, issue 8, Page : 1-8(Aug, 2015).**
155. Shalabh Agarwal, Abhradip Ghosh, Saptarshi Bhattacharyya, Asoke Nath, **“ Green Solutions: A Pilot Study on Green Technology and Green Computing”, International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE), ISSN: 2277 128X, Vol-5, Issue-10, Page 680-686, October 2015.**
156. Manoj Kumar Srivastav, Asoke Nath , **“Mathematical Modeling of Democratic Relationship in Social Networks – Implementation of Game Theory”, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), ISSN: 2277 128X, Vol-5, Issue-10, Page 81-88, October 2015.**
157. Shalabh Agarwal, Sayantan Majumdar, Abhishek Maiti, Asoke Nath, **“Security and Privacy Issues of Internet of Things : Challenges and Threats”, International Journal of Advanced Technology in Engineering and Science, Vol. 2, Issue 11, Page 89-98, Nov, 2015.**
158. Ayan Roy, Asoke Nath, **“SECURED DATA ENCRYPTION STANDARD (SDS-1) VERSION-I”, International Journal of Advanced Technology in Engineering and Science(IJATES), Vol No.3, Issue 11, page 188-195, Nov,2015.**
159. Shubham Chatterjee, Kasturi Paul, Reek Roy, Asoke Nath, **“A Pilot Study on Natural Language Processing – Applications of Finite State Automation”, Current Trends in Technology and Science(CTTS : ISSN 2278-0535), Vol-04, Issue:06, Page 580-586(Oct-Nov 2015).**
160. Manoj Kumar Srivastav, Asoke Nath, **“Mathematical Modeling on Decision Based Relationship in Social Networks”, Current Trends in Technology and Science(CTTS : ISSN 2278-0535), Vol-04, Issue:06, Page 587-593(Oct-Nov 2015).**
161. Sayantan Majumdar, Abhishek Maiti, Sudipto Bhattacharjee, Asoke Nath, **“ A Pilot Study on the Security Issues of Smartphone Systems”, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCC ISSN 2320-9801), Vol-3, Issue 11, Page 10563-10570, Nov 2015.**

162. Asoke Nath, Madhumita Santra, Supriya Maji, Kanij Fatema Aleya, **“Bit Level Symmetric Key Encryption Algorithm (BLSKEA-1) Version-1”**, **International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE ISSN 2320-9801)**, Vol-3, Issue 11, Page 10767-10773, Nov 2015.
163. Manoj Kumar Srivastav, Asoke Nath , **“A Comprehensive Study on Complexity of Relationship in Social Networks”**, published in International IEEE conference **“Computational Intelligence and Communication Networks(CICN 2015)”** held at Jabalpur, IEEE Explore page 718-723, Dec 12, 2015.
164. Manoj Kumar Srivastav, Asoke Nath , **“Mathematical Modeling of Virtual Relation in Social Networks”**, published in International IEEE conference **“Computational Intelligence and Communication Networks(CICN 2015)”** held at Jabalpur, IEEE Explore page 924-928, Dec 12, 2015.
165. Sayantan Majumder, Abhishek Maiti, Asoke Nath , **“New Secured Steganography Algorithm using Encrypted Secret Message inside QR™ Code: System implemented in Android Phone”**, published in International IEEE conference **“Computational Intelligence and Communication Networks(CICN 2015)”** held at Jabalpur, IEEE Explore page 1130-1134, Dec 12, 2015.
166. Asoke Nath, Madhumita Santra, Supriya Maji, Kanij Fatema Aleya , **“Bit Level Encryption Algorithm – Implementation of Bit-wise operations and randomized Bit-wise Columnar Transposition method”**, published in International IEEE conference **“Computational Intelligence and Communication Networks(CICN 2015)”** held at Jabalpur, IEEE Explore page 1157-1063, Dec 12, 2015.
167. Aashijit Mukherjee, Somnath Saha, Naved Ahmed Tagala, Asoke Nath, **“Noise Driven Encryption Algorithm(NDEA) Version-“**, **International Journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 2349-2763**, Issue-12, Vol 2, Page 28-37, Dec(2015).
168. Sudipta Maji, Asoke Nath, **“Scope and Issues in Alpha Compositing Technology”**, **International Journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 2349-2763**, Issue-12, Vol 2, Page 38-43, Dec(2015).
169. Kaustav Ghosh, Asoke Nath, **“Cognitive Radio Networks: a comprehensive study on scope and applications”**, **International Journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 2349-2763**, Issue-12, Vol 2, Page 44-56, Dec(2015).
170. Supriya Maji, Asoke Nath, **“Scope and Challenges in Sailfish OS: A brief overview”**, **International Journal of Innovative Research in Advanced Engineering(IJIRAE) ISSN: 2349-2763**, Issue-12, Vol 2, Page 84-89, Dec(2015).

2016:

171. Manoj Kumar Srivastav, Asoke Nath, **“A Comprehensive Study on Mutual Relationship in Social Networks”**, **International Journal of Emerging Technology and Advanced Engineering(IJETAE) ISSN: 2250-2459**, ISO 9001:2008 Certified

172. Asoke Nath, Subrata Modak, Sougata Mandal, “Modern Encryption Algorithm Version-1(MEA-1)”, **International Journal of Emerging Technology and Advanced Engineering(IJETAE)** ISSN: 2250-2459, ISO 9001:2008 Certified Journal, Vol-6, Issue 1, Page 256-261, 30-th January(2016).
173. Asoke Nath, Tanushree Mondal, “Issues and Challenges in Two factor Authentication Algorithms”, **International Journal of Latest Trends in Engineering and Technology(IJLTET)**e-ISSN:2278-621X, p-ISSN: 2219-3788, Vol 6, Issue 3, Page : 318-327, Jan 31(2016).
174. Asoke Nath, Kanij Fatema Aleya, Madhumita Santra, Supriya Maji, “Security Issues and Challenges in Cloud Computing : A Brief Overview”, **International Journal of Latest Trends in Engineering and Technology(IJLTET)**e-ISSN:2278-621X, p-ISSN: 2219-3788, Vol 6, Issue 3, Page : 315-318, Jan 31(2016).
175. Payel Saha, Asoke Nath, “An Overview on Mobile Ad-Hoc Networks”, **International Journal of Multidisciplinary Research and Modern Education(IJMRME)**, ISSN(Online): 2454-6119, Vol II, Issue I, Page 151-158,24 Feb,(2016).
176. Asoke Nath, Aashijit Mukhopadhyay, Somnath Saha, Naved Ahmed Tagala, “Noise Driven Encryption Algorithm Version-2(NDEA-2)”, **Proceedings of IEEE International Conference CSNT-2016 held at Chitkara University, Chandigarh, Mar 5-7, 2016, Page:595-600.**
177. Sayantan Majumdar, Abhishek Maiti, Asoke Nath, “Secured Data Hiding Technique Inside Jpeg Image Embedded in QRTM Code”, **Proceedings of IEEE International Conference CSNT-2016 held at Chitkara University, Chandigarh, Mar 5-7, 2016, Page:623-628.**
178. Ayan Roy, Asoke Nath, “Advanced Data Encryption Standard (ADES-I) version-I”, **Proceedings of IEEE International Conference CSNT-2016 held at Chitkara University, Chandigarh, Mar 5-7, 2016, Page:629-634.**
179. Triparna Mukherjee, Asoke Nath, “ Trends and Challenges in E-Learning Methodologies”, **Current Trends in Technology and Science(CTTS : ISSN: 2279-0535. Volume : 5, Issue : 1, Page : 1-8,Mar,2016 (Dec 2015 - Jan 2016).**
180. Shalabh Agarwal, Anindita Ghosh, Asoke Nath, “Green Enterprise Computing- Approaches Towards a Greener IT”, **International Journal of Innovative Research in Advanced Engineering (IJIRAE)** ISSN: 2349-2763 Issue 03, Volume 3, Page: 1-5, (March 2016).
181. Arurina Dasgupta, Asoke Nath, “Classification of Machine Learning Algorithms”, **International Journal of Innovative Research in Advanced Engineering (IJIRAE)** ISSN: 2349-2763 Issue 03, Volume 3, Page: 6-11, (March 2016).
182. Triparna Mukherjee, Asoke Nath, “ Securing Human Computer Interaction”, **Current Trends in Technology and Science(CTTS),ISSN: 2279-0535, Volume :6, Issue:2, Page: 602-608, March,2016.**

183. Manoj Kumar Srivastav, Asoke Nath, **“Web Content Management System”, International Journal of Innovative Research in Advanced Engineering(IJIRAE), ISSN: 2349-2763, Issue 03, Volume 3, Page 51-56, March 27 , 2016.**
184. Shubham Chatterjee, Kasturi Paul, Reek Roy, Asoke Nath, **“A Comprehensive Study on Security issues in Android Mobile Phone – Scope and Challenges”, International Journal of Innovative Research in Advanced Engineering(IJIRAE), ISSN: 2349-2763, Issue 03, Volume 3, Page 62-72, March 30, 2016.**
185. Asoke Nath, Christina Marissa Mehta, Barsha Mandal, Priyanka Shyamsukha **“Designing Android App to Implement Encryption Algorithm Using Bit-Level Column Reshuffling with Random Bit-Wise Operations” International Journal of Innovative Research in Advanced Engineering(IJIRAE), ISSN: 2349-2763, Issue 05, Volume 3, Page 1-9, May 7, 2016.**
186. Asoke Nath, Madhumita Santra, Supriya Maji, Kanij Fatema Aleya, **“3-Dimensional Bit Level Encryption Algorithm Ver-1 (3DBLEA -1)”, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCCE), ISSN(Online): 2320-9801 ISSN (Print) : 2320-9798, Vol. 4, Issue 5, Page : 8611-8618, May 2016.**
187. Madhumita Santra, Kanij Fatema Aleya, Supriya Maji, Asoke Nath, **“Bitcoin Technology : A peer-to-peer Digital Cash Transaction”, International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE), ISSN- 2277 28X, Vol 6, Issue 5, Page 48-51, May, 2016.**
188. Kanij Fatema Aleya, Madhumita Santra, Supriya Maji, Asoke Nath, **“Scope and Challenges in Mobile IP”, , International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE), ISSN-2277 28X, Vol 6, Issue 5, Page 331-334, May, 2016.**
189. Supriya Maji, Kanij Fatema Aleya, Madhumita Santra, Asoke Nath, **“Issues and Scope in Typescript Language” , International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE), ISSN-2277 28X, Vol 6, Issue 5, Page 111-115, May, 2016.**
190. Asoke Nath, Sankar Das, Samriddhi Joshi, Saulat Daanyaal Alam, Alvin Roetgen, **“Steganography Algorithm to Hide any Secret Message inside an Audio File”, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCCE), ISSN(Online):2320-9801, ISSN(Print): 2320-9798, Vol 4, Issue 5, Page :8904-8910 ,May, 2016.**
191. Sweta Chakraborty, Asoke Nath, **“Ur/Web Programming Language: a brief overview”, International Journal of Innovative Research in Advanced Engineering(IJIRAE), ISSN: 2349-2763, Issue 05, Volume 3, Page 66-71, May, 2016.**

192. Premangshu Chanda, Pallab Kanti Mukherjee, Subrata Modak, Asoke Nath, **“Gesture Controlled Robot using Arduino and Android”**, **International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE)**(ISSN: 2277 128X), Vol. 6, Issue 6, Page 227-234, June 30, 2016.
193. Kautav Ghosh, Asoke Nath, **“Big data: Security Issues and Challenges”**, **International Journal of Research Studies in Computer Science and Engineering(IJARSCSE)**, ISSN 2349-4840(Print) & 2349-4859(Online), Page 1-9, Vol 3, Issue 3, June 30, 2016.
194. Pramod George Jose, Soumick Chatterjee, Mayank Patodia, Sneha Kabra, Asoke Nath, **“Hash and Salt based Steganographic Approach with modified LSB Encoding”**, **International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE)**, ISSN (Online):2320-9801, ISSN(Print):2320-9798, Vol. 4, Issue 6, Page 10599-10610, June 30, 2016.
195. Sreeparna Mukherjee, Triparna Mukherjee, Asoke Nath, **“Scope and Challenges in Retail Industry : Application of Data Science”**, **International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE)**, ISSN (Online):2320-9801, ISSN(Print):2320-9798, Vol.4, Issue 6, Page 10377-10387, June 30, 2016.
196. Saptarshi Bhattacharyya, Asoke Nath, **“Application of Typescript Language : A Brief Overview”**, **International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE)**, ISSN(Online):2320-9801, ISSN(Print):2320-9798, Vol.4, Issue 6, Page 10585-10590, June 30, 2016.
197. Sankar Das, Asoke Nath, Arijit Samanta, Abhishek Roy, Saptarshi Bhattacharyya, **“A Secure Approach for data Hiding using Visual Cryptography”**, **International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)**, ISSN(Online):2320-9801, ISSN(Print):2320-9798, Vol.4, Issue 6, Page 10274-10282, June 30, 2016.
198. Rajashree Chatterjee, Arijit Sarkar, Shalabh Agarwal, Asoke Nath, **“Design and Implementation of a Home Automation System Based on Wi-Fi”**, **International Journal of Research Studies in Computer Science and Engineering(IJRSCSE)**, ISSN 2349-4840(Print) & 2349-4859(Online), Page 18-26, Vol 3, Issue 3, July 31, 2016.
199. Sreeparna Mukherjee, Trparna Mukherjee, Asoke Nath, **“Fraud Analytics Using Data Mining”**, **International Journal of Research Studies in Computer Science and Engineering(IJRSCSE)**, ISSN 2349-4840(Print) & 2349-4859(Online), Page 1-11, Vol 3, Issue 4, September 9, 2016.

200. Kaustav Ghosh, Asoke Nath, **“NoSQL Database: An Advanced Way to Store, Analyze and Extract Results From Big Data “**,**International Journal of Advance Research in Computer Science and Management Studies IJRSCSE**), ISSN 2349-4840(Print) & 2349-4859(Online), Vol 4, Issue-8, Page 203-221, August 2016(Published on 14-th September 2016).
201. Kaustav Ghosh, Asoke Nath, **“A Study on Data Science Methodologies, People and Skill Set”**, **International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE)**, ISSN(Online): 2320-9801, ISSN(Print): 2320-9798, Vol. 4, Issue 9, Page: 15876-15889, September 30(2016).
202. Anusmita Ray, Asoke Nath, **“Introduction to Malware and Malware Analysis : A brief overview”**, **International Journal of Advance research in Computer Science and Management(IJARCSMS**, ISSN-2321-7782), Vol. 4, Issue 10, Page: 22-30, (Oct Issue published on 8-th Nov) (2016).
203. Asoke Nath, Aashijit Mukhopadhyay, **“3-dimensional Noise Wave Driven Encryption Algorithm ver-1(3dNWDEA-1)”**, **International Journal of Advance research in Computer Science and Management(IJARCSMS**, ISSN-2321-7782), Vol. 4, Issue 10, Page: 105-111, (Oct Issue published on 12-th Nov) (2016).
204. Asoke Nath, Deborupa Roy, Rishov Nag, **“Image Encryption using DNA Encoding Techniques : a brief overview”**, **International Journal of Advance research in Computer Science and Management(IJARCSMS**, ISSN-2321-7782), Vol. 4, Issue 10, Page: 112-1119, (Oct Issue published on 12-th Nov) (2016).
205. Anurag Roy, Asoke Nath, **“DNA Encryption Algorithms : Scope and Challenges in Symmetric Key Cryptography”**, **International Journal of Innovative Research in Advanced Engineering(IJIRAE)**, ISSN: 2349-2763, Issue-11, Vol-3, Page: 48-53, Nov 28, (2016).
206. Asoke Nath, Anwasha Chakraborty, Suvasish Dasgupta, **“ Interpretation of Java – Object Oriented Language : Application of Chomsky Context Free Grammar and Finite State Automation”**, **International Journal of Latest Trends in Engineering and technology**, Vol 7, Issue 4, Page : 67-74, Nov 30(2016).
207. Premangshu Chanda, Subrata Modak, Pallab Kanti Mukherjee, Asoke Nath, **“Sensible Mouse using Sixth Sense Technology”**, **International Research Journal of Computer Science(IRJCS)**, ISSN 2393-9842, Issue 12, Volume 3, Page : 5-11, Dec 24(2016).
208. Manoj Kumar Srivastav, Asoke Nath, **“Mathematical Modeling of Social Networks: A Probabilistic approach to explore relationship in Social Networks”**, Published in **Proceedings of 8th IEEE International Conference CICN 2016** held at Dehradun, India in Dec 23-25, Page: 346-350(2016).
209. Ayan Roy, Asoke Nath, **“Bitwise X-NOR Encryption Technique(BXET)”**, Published in **Proceedings of 8th IEEE International Conference CICN 2016** held at Dehradun, India in Dec 23-25, Page: 390-393(2016).

2017:

210. Premangshu Chanda, Subrata Modak, Pallab Kanti Mukherjee, Shalabh Agarwal, Asoke Nath, **“Scope and Issues in Green Compiler”, International Research Journal of Computer Science(IRJCS), ISSN : 2393-9842, Issue 12, Vol 3, Page 86-93, December 2016(published on 5-th Jan 2017).**
211. Asoke Nath, Aashijit Mukhopadhyay, Somnath Saha, Naved Ahmed Tagala **“A new random symmetric key generator: AASN algorithm”, Computational Science and Engineering – Deyasi et al. (Eds)© 2017 Taylor & Francis Group, ISBN 978-1-138-02983-5, Page : 321-324, January 24, 2017.**
212. Soumick Chatterjee, Asoke Nath, **“Auto-Explore the Web – Web Crawler , International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), ISSN(Online): 2320-9801, ISSN (Print): 2320-9798, Vol :5, Issue: 4, Page: 6607-6618, April, 2017.**
213. Asoke Nath, Aashijit Mukhopadhyay, **“ A Novel Student Attendance Tracking System Using Android Mobile Phone”, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), ISSN(Online): 2320-9801, ISSN (Print): 2320-9798, Vol :5, Issue: 4, Page: 6677-6686, April, 2017.**
214. Asoke Nath, Sayudh Roy, Chahat Gopalika, Debayan Mitra, **“ Image Steganography using Encrypted Message”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), ISSN:2321-7782(Online), e-ISJN:A4372-3114, Impact factor:6.047, Volume :5, Issue:4, Page: 7-11, April(2017).**
215. Asoke Nath, Soumyadip Basu, Aritra Chandra, Noor ur Rahman, **“ Tsunami Encryption Algorithm”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), ISSN:2321- 7782(Online), e-ISJN:A4372-3114, Impact factor:6.047, Volume :5, Issue:4, Page: 27-31, April(2017).**
216. Priyanka Basak, Asoke Nath **“Detection of Different Stages of Lungs Cancer in CT-Scan Images using Image Processing Techniques” , International Journal of Innovative Research in Computer and Communication Engineering (IJICCE), ISSN(Online): 2320-9801, ISSN (Print): 2320-9798, Vol. 5, Issue 5, Page : 9708-9719, May 2017.**
217. Monalisa Sarkar, Sirsha Roy, Abhirup Das, Asoke Nath, **“Recognition of Handwritten Characters using Binarization, Image segmentation and Correlation Matching Technique”, International Journal of Advanced Research in Computer and Management Studies, ISSN:2321-7782(Online), e-ISJN:A4372-3134, Impact Factor: 6.047, Vol-5, Issue-6, Page: 1-11, June, 2017.**
218. Asoke Nath, Ashin Guha Majumder, Anurag Roy **“A Review on Human Brain Computation” International Journal of Advanced Research in Computer and Management Studies, ISSN:2321-7782(Online), e-ISJN:A4372-3134, Impact Factor: 6.047, Vol-5, Issue-7, Page: 7-15, July, 2017.**

219. Asoke Nath, Ayan Ghosh, Enakshi Ghosh, Jayisha Saha, **“3-Dimensional Bit Level Encryption Algorithm Version-2(3DBLEAA-2)”** International Journal of Advanced Research in Computer and Management Studies, ISSN:2321-7782(Online), e-ISJN:A4372-3134, Impact Factor: 6.047, Vol-5, Issue-7, Page: 30-37, July, 2017.
 220. Manoj Kumar Srivastav, Asoke Nath, **“Content Delivery and Management System”** published in Proceedings of IEEE International Conference on Information, Communication, Instrumentation and Control(ICICIC-2017), Page-161-166, held at Medi Caps University, Indore in August 17-19,2017, paper to be uploaded in IEEE Explore.
 221. Anurag Roy, Ashin Guha Majumder, Asoke Nath, **“Understanding Natural Language Processing and its Primary Aspects”**, International Journal of Advanced Research in Computer and Management Studies(IJARCSMS), ISSN:2321-7782(Online), e-ISJN:A4372-3134, Impact Factor: 6.047, Vol-5, Issue-8, Page: 12-18, August, 2017.
 222. Abhishek Sen, Attri Ghosh, Asoke Nath, **“E-01: Bit Level Symmetric Key Cryptography using Genetic Algorithm”**, published in the Proceedings of IEEE International Conference **“Communication Systems and Network Technologies(CSNT 2017)”** held at Indian Institute of Information Technology, Nagpur in Nov 11-12, 2017.
 223. Ariruna Dasgupta, Dibyabiva Seth, Anindita Ghosh, Asoke Nath, **“G-08:Real time sign Language to Braille Interfacing System”**, published in the Proceedings of IEEE International Conference **“Communication Systems and Network Technologies(CSNT 2017)”** held at Indian Institute of Information Technology, Nagpur in Nov 11-12, 2017.
 224. Abhishek Maiti,Sayantana Majumdar, Sudipto Bhattacharjee, Asoke Nath, **“F-13: Smart Input : Provide mouse and keyboard input to a PC from Android devices”**, published in the Proceedings of IEEE International Conference **“Communication Systems and Network Technologies(CSNT 2017)”** held at Indian Institute of Information Technology, Nagpur in Nov 11-12, 2017.
 225. Anwesha Chakraborty, Trina Dutta, Shusmita Mondal, Asoke Nath, **“Latest development in Light Fidelity(Li-Fi) Technology”**, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS, ISSN: 2321-7782, Impact Factor: 7.237), Vol-5, Issue:12, Page: 47-53,Dec,2017
- 2018:**
226. Asoke Nath, Anwesha Chakraborty, Trina Dutta, Shusmita Mondal, **“Big Data Analytics: A Comprehensive Study on present and future trends”**, International Journal of Innovative Research in Computer Science and Communication Engineering (IJIRCCE), ISSN: 2320-9801(Online), 2320-9788(Print), Impact factor: 7.194, Vol-6, Issue-1, Page: 560-567, January 2018.
 227. Asoke Nath, **“Comprehensive Study on Negative Effects of Mobile Phone/Smart Phone on Human Health”**, International Journal of Innovative Research in Computer Science and Communication Engineering (IJIRCCE), ISSN: 2320-9801(Online), 2320-9788(Print), Impact factor: 7.194, Vol-6, Issue-1, Page: 575-581, January 2018.
 228. Nilanjan Chatterjee, Souvik Chakraborty, Aakash Decosta, Asoke Nath, **“Real-time**

Communication Application Based on Android Using Goggle Firebase”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)(ISSN: 2321-7782, Impact Factor:7.327), Vol 6, Issue 4, Page: 74-79, April(2018).

229. Aashijit Mukhopadhyay, Soumick Chatterjee, Asoke Nath, “ **SYMMETRIC KEY ENCRYPTION ALGORITHM USING SPIDER WEB (ESP) VERSION-1”, International Journal of Latest Trends in Engineering and Technology(IJLTET e-ISSN:2278-621X), Vol. 10, Issue 2, pp.342-346, April(2018).**
230. Asoke Nath, Soumyadip Ray, Salil Anthony Dhara, Sourav Hazra, “ **3-DIMENSIONAL BIT LEVEL ENCRYPTION ALGORITHM VERSION-3 (3DBLEA-3) International Journal of Latest Trends in Engineering and Technology(IJLTET e-ISSN:2278-621X), Vol. 10 , Issue 2, pp. 347-353, April(2018).**
231. Asoke Nath, Abedin Dodia, “**Symmetric Key Encryption Algorithm using DNA Sequence”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)(ISSN: 2321-7782, Impact Factor:7.327), Vol 6, Issue 4, Page: 108-115, April(2018).**
232. Deep Kumar Ganguly and Asoke Nath (May, 2018) “**Digital Forensics – A Deeper Look into Email Analysis”, International Journal of Current Advanced Research, 07(5), pp. 12494-12499. DOI: <http://dx.doi.org/10.24327/ijcar.2018.12499.2198>.**
233. Asoke Nath , Srijita Kabasi , Kasturi Chakraborty , Sriya Sarkar, “ **Handwritten English Character Recognition Using Edge Detection, Segmentation and Pattern Matching”, International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726 www.ijesi.org ||Volume 7 Issue 6 Ver IV || June 2018 || PP 60-66.**
234. Anwesha Chakraborti, Trina Dutta, Sushmita Mondal, Asoke Nath, “ **Application of Graph Theory in Social Media”, International Journal of Computer Science and Engineering(IJCSE)(e-ISSN: 2347-2693), Vol-6, Issue-10, Page: 722-729, October, 2018.**
235. Deep Kumar Ganguli, Asoke Nath, “**Use of Facial Recognition for Aauthorizing Transactions made through Automataed Teller Machine”, International Journal of Advance research in Computer Science and Management Studies(IJARCSMS, ISSN: 2321-7782, e-ISJN: A4372-3114, Impact factor: 7.328), Vol-6, Issue-10, Page: 46-52, October,2018.**
236. Jimut Bahan Pal, asoke Nath, “**Botnets: A Constant Threat to CyberSpace”, International Journal of Advance research in Computer Science and Management Studies (IJARCSMS, ISSN: 2321-7782, e-ISJN: A4372-3114, Impact factor: 7.328), Vol-6, Issue-10, Page: 38-45, October,2018.**
237. Joyshree Nath and Asoke Nath, “**Scope and challenges in Ecotourism : a comprehensive Study in Indian context”, International Journal of Global Science research(ISSN: 2348-8344(Online)), Vol-5, Issue-2, Page: 761-770, Oct0ber, 2018.**

238. Asoke Nath, Adityam Ghosh, Arion Mitra, “ **Building a Movie Recommendation System using SVD Algorithm**”, **International Journal of Computer Science and Engineering(IJCSE)**(e-ISSN: 2347-2693), Vol-6, Issue-11, Page: 746-749, November, 2018.
239. Jimut Bahan Pal, Asoke Nath, "New Approach to Generate, Re-Generate, Encode and Compress 3D structures using polynomial equations", **International Journal of Computer Sciences and Engineering(IJCSE)**, (E-ISSN: 2347-2693, UGC Approved journal), Vol-6, Issue-12, Page: 984-992(Dec 2018).

2019:

240. Asoke Nath, Romita Mondal, “**Dark Web : The Unlimited Side of the World Wide Web**”, **International Journal of Computer Science and Engineering(IJCSE)**, UGC approved Journal, Vol-7, Issue-1, Page-296-305(January 2019).
241. Jufishan Boksha, Asoke Nath, “**Scope and Challenges in Smart Glasses : A Comprehensive Study on Present Scenario**”, **International Journal of Computer Science and Engineering(IJCSE)**, UGC approved Journal, Vol-7, Issue-1, Page-619-626(January 2019).
242. Soumi Mitra, Asoke Nath, “**Mind-Reading Computers : Towards A New Horizon in Medical Science**”, **International Journal of Computer Science and Engineering(IJCSE)**, UGC approved Journal, Vol-7, Issue-1, Page-915-927 (January 2019).
243. Asoke Nath, Suchandra Datta, Souptik Kumar Majumdar, “**Li-Fi : Current Technology and Overcoming Disadvantages**”, **International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)**, UGC approved Journal, ISSN:2321-7782(Online), ISSN:2347-1778(Print), Impact Factor:7.327, Vol-7, Issue-4, PP. 1-7, April,2019.
244. Tanuj Sur, Asoke Nath, “**An Innovative Method to Calculate the Economic Development Index of Important Cities in west Bengal from Satellite Imagery**”, **International Journal of Computer Science and Engineering(IJCSE)**, UGC approved Journal, ISSN:2347-2693, Vol-7, Issue-4, Page-411-417, April, 2019.
245. Asoke Nath, Suchandra Datta, Soutik Kumar Majumdar, “**Bit Level Encryption Algorithm Using Chaos Version 1.0(BLEAUC-1.0)**”, **International Journal of Computer Science and Engineering(IJCSE)**, UGC approved Journal, ISSN:2347-2693, Vol-7, Issue-4, Page-451-456, April, 2019.
246. Asoke Nath, Tejash Datta , Faisal Ahmed , Nitin Gupta “**Scope and Challenges in Data Visualisation: Presentation of Data in a Graphical Format**”, **International Journal of Computer Science and Engineering(IJCSE)**, UGC approved Journal, ISSN:2347-2693, Vol-7, Issue-5, Page-1596-1601, May, 2019.
247. Asoke Nath, Sourya Saha, Sarthak Gupta, Nilarghya Das, “**Enhancing Security of ATM Transactions via Debit Cars**”, ”, **International Journal of Computer Science and**

248. Jufishan Boksha, Romita Mondal, Soumi Mitra, Asoke Nath, **“A Proposed Model of Advanced Security System in ATM : Implementation of Face Recognition and Finger Print Recognition”**, International Journal of Computer Science and Engineering(IJCSE), UGC approved Journal, ISSN:2347-2693, Vol-7, Issue-10, Page-15-20, October, 2019.

2020:

249. Manoj Kumar Srivastav, Asoke Nath, **“A Comprehensive Study on Mathematical Study on Mathematical Sampling before Testing for COVID-19 Infected Candidates”**, International Journal of Computer Science and Engineering(IJCSE), UGC approved Journal, ISSN:2347-2693, Vol-8, Issue-4, Page-19-24, April 2020.
250. Asoke Nath, Sankar Das, Oishi Majumder, Adrija Saha, Monimoy Ghosh, **“A New Bit Level Poisional Encryption Algorithm(NBLPEA ver-1), International Journal of Computer Science and Engineering(IJCSE), UGC approved Journal, ISSN:2347-2693, Vol-8, Issue-4, Page-167-172, April 2020.**
251. Manoj Kumar Srivastav, Asoke Nath, **“Mathematical Description of Social Distancing to Prevent Transmission of COVID-19 between Human to Human”**, International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT)”, Vol-6, Issue-3, ISSN-2456-3307, PP-762-771, May-June(2020). (UGC Approved Journal:64718(Ex), Impact Factor=6.135.)
252. Asoke Nath, Ankita Kedia, Sunnada Pal, Moumita Sen, **“Advanced Symmetric Key Cryptography Algorithm : Application of Pseudo Biotic CAN Method(ASKCA ver-1.0)”**, International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT)”, Vol-6, Issue-3, ISSN-2456-3307, PP-884-895, May-June(2020). (UGC Approved Journal:64718(Ex), Impact Factor=6.135.)

2021:

253. Shalabh Agarwal, Asoke Nath, **“ A Comprehensive Study on Scope and Challenges in Digital Inheritance”**, International Journal of scientific Research in Computer Science, Engineering and Information Technology”, ISSN:2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT217225>(UGC approved Journal), Vol-7, Issue-2, Page: 98-104, March-April(2021).
254. Asoke Nath, Annie Chakraborty, Soumyamaraj Maitra, **“New Bit Level Positional Encryption Algorithm(NBPLEA Ver-2)”**, “International Journal of Scientific in Computer Science, Engineering and Information Technology(IJSRCSEIT)”, ISSN:2456-3057(www.ijsrcseit.com), Online ISSN: 2456-3307, doi: <https://doi.org/10.32628/CSEIT217350>, UGC Journal Number:64718, Impact Factor=6.135, Vol-7, issue-3, Page number 245-257(May 22, 2021).
255. Asoke Nath, Rupamita Sarkar, Swastik Mitra, Rohitaswa Pradhan, **“Designing and Implementing Conversational Intelligent Chat-bot Using Natural Language Processing”**, “International Journal of Scientific in Computer Science, Engineering and

Information Technology(IJSRCSEIT)", ISSN:2456-3057(www.ijsrcseit.com), Online ISSN: 2456-3307, doi: <https://doi.org/10.32628/CSEIT217351>, UGC Journal Number:64718, Impact Factor=6.135, Vol-7, issue-3, Page number 262-266(May 22, 2021).

256.Asoke Nath, Soham Mondal, Raj Deb, Akash Das, **"Data Hiding and Retrieval method using LSB substitution Algorithm", "International Journal of Scientific in Computer Science, Engineering and Information Technology(IJSRCSEIT)", ISSN:2456-3057(www.ijsrcseit.com), Online ISSN: 2456-3307, doi: <https://doi.org/10.32628/CSEIT217352>, UGC Journal Number:64718, Impact Factor=6.135, Vol-7, issue-3, Page number 266-279(May 22, 2021).**

257.Asoke Nath, Soham Mondal, Raj Deb, Akash Das, **"An Efficient Cross_Lingual BERT Model for Text Classification and Named Entity Extraction in Multilingual Dataset", "International Journal of Scientific in Computer Science, Engineering and Information Technology(IJSRCSEIT)", ISSN:2456-3057(www.ijsrcseit.com), Online ISSN: 2456-3307, doi: <https://doi.org/10.32628/CSEIT217353>, UGC Journal Number:64718, Impact Factor=6.135, Vol-7, issue-3, Page number 280-286(May 22, 2021).**

258. Palash Dutta Banik and Asoke Nath, **"Past, Present and Future of Quantum Computing : A Systematic Study", International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT),ISSN: 2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT217694>,UGC Journal Number: 64718, Impact factor=6.135, Vol. 7, Issue 6, Page 351-363,(Nov-Dec),2021.**

259. Tiyasa Chatterjee and Asoke Nath, **"A Comprehensive study on Text Classification: Application of Convolutional Neural Networks and Deep Learning methods, International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT),ISSN: 2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT217695>,UGC Journal Number: 64718, Impact factor=6.135, Vol. 7, Issue 6, Page 364-371,(Nov-Dec),2021.**

260. Arighna Chakraborty and Asoke Nath, **"Scope and Challenges in Convolutional AI using Transformer Models", International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT),ISSN: 2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT217696>,UGC Journal Number: 64718, Impact factor=6.135, Vol. 7, Issue 6, Page 362-384,(Nov-Dec),2021.**

261. Ropa Roy and Asoke Nath, **"Introduction to Quantum Gates: Implementation of Single and Multiple Gates", International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT),ISSN: 2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT217697>,UGC Journal Number: 64718, Impact factor=6.135, Vol. 7, Issue 6, Page 365-392,(Nov-Dec),2021.**

262. Shreyashi Chowdhury and Asoke Nath, **"Trends In Natural Language Processing : Scope And Challenges", International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT),ISSN: 2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT217698>,UGC Journal Number: 64718, Impact factor=6.135, Vol. 7, Issue 6, Page 393-401,(Nov-Dec),2021.**

263. Sagarmoy Ganguly and Asoke Nath, “A Comprehensive study on Quantum Key Distribution”, International Journal of scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT),ISSN: 2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT2176101>,UGC Journal Number: 64718, Impact factor=6.135, Vol. 7, Issue 6, Page 402-409,(Nov-Dec),2021

2022

264. Palash Dutta Banik, Asoke Nath, “A Comprehensive Study on 8 Puzzle Problem without Heuristic and with Heuristic Algorithm”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT), ISSN:2456-3307 (www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT22831>, Vol 8, Issue 2, Page : 300-308, March-April,2022.

265. Asoke Nath, Shankhadeep Banerjee, Soumyadeep Lobwo, Proheli Paul, “Bit Level Symmetric Key Encryption Algorithm using simple Shifting, Transposition Methods”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN:2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT22832>, Vol 8, Issue 2, Page : 309-318, March-April,2022.

266. Monimoy Ghosh, Asoke Nath, “A Comprehensive Study on Some Web Mining Algorithms”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN:2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT228325>, Vol 8, Issue 2, Page : 319-326, March-April,2022.

267. Palash Dutta Banik, Sagarmoy Ganguly, Ropa Roy, Asoke Nath, “Study on Face Mask Detector System in COVID-19 Era using Deep Learning”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT), ISSN:2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT228326>, Vol 8, Issue 2, Page : 327-337, March-April,2022.

268. Dwaipayan Bhoumick, Asoke Nath, “*Fundamentals of Quantum Computing : A Comprehensive Study from Scrodinger Wave Equation to Quantum States*”, International Journal of Innovative Research in Technology(IJIRT), ISSN:2349-6002, UGC Approved No. 47859, Vol. 9, Issue 6, Page:76-87,Nov(2022).

269. Debrup Roy Chowdhury, Asoke Nath, “*Introduction to Quantum Gates: A comprehensive Study on Quantum Information*”, International Journal of Innovative Research in Technology(IJIRT), ISSN:2349-6002, UGC Approved No. 47859, Vol. 9, Issue 6, Page:433-441,Nov(2022).

2023:

270. Asoke Nath, Swapnil Saha , Himashri Basu , Shalini Torcato,” *Visibility Analysis and Time Series Forecasting*”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT), ISSN:2456-3307(www.ijsrcseit.com), doi:<https://doi.org/10.32628/CSEIT228326>, Vol 9, Issue 3, Page : 103-116, May-June,2023.

271. Debayan Bhounick, Debottam Mitra, Debrup Roy Chowdhury and Asoke Nath, "A Comprehensive Study on Implementation of Grover's Search Algorithm on Quantum Processors", *International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS)*, ISSN : 2321-7782(Online), ISSN:2347-1778(Print), Impact Factor : 7.529, Vol. 11, Issue-5, Page 10-19, May 2023.

272. Soumyadeep Nag, Antony Suranjit Dasgupta, Suvagata Chatterjee, Asoke Nath, " A Comprehensive Study on Orange fruit Detection and Disease Classification using MobileNetV2", *International Journal of Advance Research in Computer Sciences(IJARCSMS)*, ISSN : 2321-7782(Online), ISSN: 2347-1778(Print), Impact factor : 7.529, Vol. 11, Issue-5, Page 1-10, May 2023.

2024:

273. Asoke Nath, Prashant Gomes, Sanchita Paul, "Enhancing Cybersecurity Through Intelligent Conversations : A Chatbot Approach", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, ISSN:2456-3307 , doi:<https://doi.org/10.32628/CSEIT2410323>, Vol-10, Issue:3, Page : 204-219(May-June, 2024).

274. Asoke Nath, Shreya Maity, Soham Banerjee, Rohit Roy, "Quantum Key Distribution (QKD) for Symmetric Key Transfer", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, ISSN:2456-3307 , doi:<https://doi.org/10.32628/CSEIT2410323>, Vol-10, Issue:3, Page : 270-280(May-June, 2024).

275. Asoke Nath, Sunayana Saha, Shrestha Dey Sarkar, Anchita Bose, " CareerBoost: Revolutionizing the Job Search with Resume Enhancement and Tailored Recommendations", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, ISSN:2456-3307 , doi:<https://doi.org/10.32628/CSEIT2410323>, Vol-10, Issue:3, Page : 281-290(May-June, 2024).

276. Asoke Nath, Sankar Das, Rahul Sharma, Subhajit Mandal, Hardick Sadhu, " Digital Steganography : A Comprehensive Study on Various Methods for Hiding Secret Data in a Cover file", *International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT)*, ISSN:2456-3307 , doi:<https://doi.org/10.32628/CSEIT2410323>, Vol-10, Issue:3, Page : 291-301(May-June, 2024).

2025:

277. Asoke Nath, Bijetree Basak, Sania Rahaman, Bijetree Basak, “LearnLink: Empowering the Next generation of Learners”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology(IJSRCSEIT), ISSN:2456-3307, doi: <https://doi.org/10.32628/CSEIT25113313>, Page: 533-547,Vol. 11, Issue 3, May-June(2025).

278. Asoke Nath, Sanchayita Ghosh, Bhaskar Jyoti Mitra, Aritra Patra, ”Quantum Driven Vector Similarity Search”, International Journal of Advance Research in Computer Science and Management Studies(IJARCSMS), ISSN:2321-7782(Online), ISSN:2347-1778(Print), Impact Factor:6.012, DOI: <https://doi.org/10.61161/ijarcsms.v13i6.1>, Volume 13, Issue 6, Page 1-9, June 2025.

279. Soham Malakar, Sreekanya Pal, Nazlee Rahman, Asoke Nath, “Exploring the Trade-Off between Language Simplicity and Execution Efficiency : A Study Using Crython and LLVM”, International National Journal of Scientific Research in Computer Research in Science, Engineering and Infortaion Technology(IJARCSMS), ISSN:2456-3307, DOI: <https://doi.org/10.32628/CSEIT25113379>, Volume 11, Issue 3, Page 965-973, May-June 2025.

Books Edited:

- 1.“Applied Approach to Privacy and Security for the Internet of Things”, Edited by Parag Chatterjee, Emmanuel Benoist and Asoke Nath, IGI Global, United States, Published in October 2020.Total number of chapters=12, number of pages=295.**

Faculty Development Programme Attended:

1. Completed One Week “National level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research “ organized by the Internal Quality Assurance Cell(IQAC) of Gauhati University, Assam in association with ipsr solution limited from 17 April 2024 to 24 April 2024. Grade obtained =”A”

2. Completed One Week “National level Online Faculty Development Program on Digital Pedagogy: ICT & AI assisted teaching in-line with OBE & NEP” organised by the Internal Quality Assurance Cell (IQAC) of St. James College of Nursing and St. James College of Pharmaceutical Sciences, Chalakudy in association with The Kerala State Higher Education Council (KSHEC) from 29 May 2024 to 05 June 2024 and has successfully completed all the assessments and secured an ”A” Grade”.

3. Compltd 5 days FDP Online Faculty Development Programme (FDP) on “Generative AI Tools for Smart Teaching”, scheduled from June 9 to 13, 2025. Organized by All India Association for Christian Higher Education (AIACHE) and Lady Doak College.

Book Chapters Published:

- 1. Sreeparna Mukherjee, Asoke Nath, “Web Service Clustering and data Mining in SOA System”, Chapter-11, IGI Global, Published on 3/2/2017, Page: 157-177.**
- 2. Triparna Mukherjee, Asoke Nath, “Big Data Analytics With Service Oriented Architecture”, Chapter-15, IGI Global, Published on 3/2/2017, Page: 216-234.**

- 3. Some Challenges in Designing and Implementing Learning Material for Ubiquitous E-learning Environment: A Descriptive Study, Shalabh Agarwal, Asoke Nath**

Recent Advances in Mathematical Research and Computer Science Vol. 8, 11 February 2022 , Page 70-76

<https://doi.org/10.9734/bpi/ramrcs/v8/3281E>,

Published: 2022-02-11

- 4. Determining the Impact of Green Computing in It Industry to Make Eco Friendly Environment, Shalabh Agarwal, Asoke Nath**

Recent Advances in Mathematical Research and Computer Science Vol. 8, 11 February 2022 , Page 55-62

<https://doi.org/10.9734/bpi/ramrcs/v8/3282E>

Published: 2022-02-11

5. **A Framework for Exercising Voting Rights from Anywhere Using ICT Infrastructure: A Cross Sectional Study, Shalabh Agarwal, Asoke Nath**

Recent Advances in Mathematical Research and Computer Science Vol.

8, 11 February 2022 , Page 63-69

<https://doi.org/10.9734/bpi/ramrcs/v8/3280E>

Published: 2022-02-11

6. **“Digital Inheritance : Scope and Challenges : Scope and Challenges”, Shalabh Agarwal, Asoke Nath,”Mathematics and Computer Science: research Updatwes”, Vol.3, 21 Feb, 2025, Page: 15-23,**

<https://doi.org/10.9734/bpi/mcsru/v3/4190>

7. **“Enterprise 2.0: An Environment for Sustainability and Green ICT’s “, Shalabh Agarwal, Asoke Nath, “Mathematics and Computer Science : Research Updates Vol.2, 25 January 2025, Page 67-78,**

<https://doi.org/10.9734/bpi/mcsru/v2/4119>

Invited Keynote address/Tutorial/lecture Presented in National and International Conference:

- 1 Title of the Tutorial : “Introduction to Cryptography”. Delivered in Worldcomp-2011 held at Las Vegas from 18-21 (2011) on 20/07/2011 from 6:00PM-9:00PM in Ball Room No.4, Monte Carlo Resort, Las Vegas, Nevada, USA.
2. Title of the Tutorial : “Cryptography and Network Security” delivered in World Congress WICT 2011 held at Mumbai University Dec 11-14(2011) held on 11/12/2011 from 4:50PM-6:20PM.
3. Title of the Tutorial : “Introduction to Cryptography” delivered in National Conference on Recent Advances in Communication, Control and Computing Technology-**RACCCT 2012, 29-30 March held at Surat,Gujrat.**
4. Title of the Tutorial : “Basics of Cryptography and Network Security” delivered in **International Conference Worldcomp 2012 held at Las Vegas on 17/07/2012 from 6:00PM-9:00PM in Silver Room, Monte carlo Resort, Las Vegas, USA.**
5. Presented one day invited seminar on “Introduction to Cryptography and Network Security” **at Najrul Mancha, Belgharia, Kolkata BCA,MSc(IT), MCA students and staff members of Brainware Consultancy Pvt. Ltd on 24/01/2013 from 11:00AM-4:00PM.**
6. Title of Tutorial : “Introduction to Cryptography and Network Security” **delivered in International conference Worldcomp 2013 held at Las Vegas on 22/07/2013 from 6:00PM-9:00PM in Montecristo 4, Hotel Tropicana, Las Vegas, USA.**
7. Delivered Key Note Address “Cryptography and Network Security” at International Conference on Emerging Trends, Technology and Research (ICETTR-2013) held at Nagpur, September 21-22(2013).
8. Delivered Lecture on “MATLAB” in Short Course on Computational Tools and Open Source Software , organized by Academic staff college, Burdwan University on 3rd September, 2013.

9. Delivered Tutorial on “Introduction to Cryptography and Network Security” in **IEEE International Conference : WICT 2013 held at Hanoi in Dec 15-18, 2013.**
10. Delivered Keynote address on “Introduction to Cryptography and Network Security” in **IEEE International Conference : ICMIRA 2013 held at SMVDU in Dec 21-23, 2013.**
11. Delivered invited Lecture on Recent Trends in Computers : **Green Computing, Finite State Automation and Network Security and Cryptography in FEFA 2013 organised by Department of Mathematics in Presidency University, Kolkata on 27-28-th of Dec 2013.**
12. Delivered invited Tutorial on “Introduction to Cryptography and Network Security” in **Worldcomp 2014 held at Las Vegas, USA in July 21-24,2014.**
13. Delivered invited lecture on “MOOCs in Higher Education Institution – A case study in Indian Context” in 1 day seminar on “Higher Education – Issues and Challenges” held at **IGNOU Kolkata Regional Centre, Bikash Bhavan on 11-th Nov 2014.**
14. Delivered Invited Talk on “Introduction to Cryptography and Network Security” in **IEEE International Conference on Computational Intelligence and Communication Networks(ICCICN-2014)” held at Hotel Pride, Newtown, Kolkata, Nov 14-16,2014**
15. Delivered Invited Talk on “Introduction to Cryptography and Network and Network Security” in **IEEE International Conference CSNT-2015 held at Gwalior, Apr 04-06, 2015.**
16. Delivered Invited Tutorial on “Introduction to Cryptography and Network Security” in **International conference Worldcomp 2015 held at Las Vegas, US, July 27,2015.**
17. Delivered Invited Tutorial on “Application of MATLAB in Science and Engineering” in **International conference Worldcomp 2015 held at Las Vegas, US, July 28,2015.**
18. Delivered Invited Lecture on “Introduction to Green Computing” in Department of Computer Applications, **Sikkim University, Gangtok, Sikkim on 28/08/2015 in Seminar Hall.**
19. Delivered Invited short Course on “Introduction to Cryptography and Network Security” **IEEE International conference ICGCIot 2015 held at Galgotias College of Engineering & Technology (GCET) ,Greater Noida, India**
20. Delivered Invited Tutorial on “Introduction to Cryptography and Network Security” in **IEEE International Conference in Computational Intelligence and Communication Networks(ICRCICN 2015) held on 21/11/2015 in Indismart Hotel, Salt Lake City, Kolkata.**
21. Delivered Invited talk on “Introduction to Cryptography and Network Security” in **IEEE International Conference on “Computational Intelligence and Communication Networks(CICN 2015)” held at Jabalpur in Gyan Ganga Institute of Technology in Dec 12-14, 2015.**
22. Delivered Invited talk on “Introduction to Cryptography and Network security” in **IEEE International conference on “Communication Systems and Network Technologies(CSNT 2017)” held at Indian Institute of Information Technology, Nagpur on November 12, 2017.**

Country Visited:

1. Las Vegas, USA in July 2010 to attend Worldcomp 2010 held at Monte Carlo Resort from 12/07/2011 to 15/07/2010.
2. Las Vegas, USA in July 2011 to attend Worldcomp 2011 held at Monte Carlo Resort from 18/07/2011 to 21/07/2010.
3. Bangkok, Thailand in 22/07/2010-26/07/2010 to attend conference of St. Xavier’s College Alumni.

4. Las Vegas, USA in July 2012 to attend Worldcomp 2012 held at Monte Carlo Resort from 16/07/2012 to 19/07/2012.
5. Las Vegas, USA in July 2013 to attend Worldcomp 2013 held at Hotel Tropicana from 22/07/2012 to 25/07/2012.
6. Hanoi, Vietnam in Dec 2013 to attend IEEE International conference WICT 2013 held in Dec 15-18, 2013.
7. Las Vegas, USA in July 2014 to attend Worldcomp 2014 held at Monte Carlo Resort from 21/07/2014 to 24/07/2014.
8. Las Vegas, USA in July 2015 to attend Worldcomp 2015 held at Monte Carlo Resort from 27/07/2015 to 30/07/2015.
9. Sri Lanka in April 9-13, 2016 to attend Graduation ceremony of JRS.
10. Visited London, Belgium, Netherlands, Germany, Italy, Austria, Switzerland, France from 23/10/2017 to 11/11/2017.
11. Visited Canada, USA from 14/10/2021 to 03/11/2021.
12. Visited Montreal, Canada from 22/01/2024 to 27/02/2024.
13. Visited Montreal, Canada from 09/10/2024 to 28/10/2024

Awards Obtained :

1. Best paper award was given for presenting paper title “Multi Way Feedback Encryption Standard(MWFES) : Ver-I “ in International Conference on Emerging Trends, Technology and Research (ICETTR-2013) held at Nagpur, September 21-22(2013).
2. Received Achievement award in International Conference Worldcomp 2014 held at Las Vegas, US in July 21-24, 2014.
3. Received Achievement award in International Conference Worldcomp 2015 held at Las Vegas, US in July 27-30, 2015.
4. Received “Adarsh Vidya Saraswati Rastriya Puraskarer” on May 7, 2018 by Glacier Journal Research Foundation, Global Management Council, Ahmedabad, Gujrat.
5. Received “Rashtriya Gaurav Award” from India International Friendship Society, New Delhi on June 2, 2018.
6. Received “ASIA PACIFIC International Educational Excellence Award” for outstanding achievements and remarkable role in the field of Education on 15/2/2019 at Bangkok given by Achievers Association for health & Educational growth New Delhi.
7. Received “Life Time education Excellence award” for outstanding achievements in chosen field of activity at New Delhi on 4/4/2019 by Achievers Association for Health & Educational Growth
8. Received “Bharat Ratna Dr. Abdul Kalam Excellence Gold Medal Award -2019” on 18-th October, 2019 at Citadel Hotel, Bangalore by All India Achievers & Research Academy.
9. Received IMRF National Distinguished Researcher Award 2024 in recognition of the consistent superior performance in “Cryptography & Network Security “ organized by International Multidisciplinary Research Foundation, Govt of A.P., Vijayawada.
10. Received “Albert Einstein – Research Scientist Award’ given by “European Council for Higher Education and Accreditation(ECHEA-UK) on 26/5/2024 at Perambalur, Tamil Nadu.

Members in Editorial Board/Reviewer Committee of On-line Journals:

1. An International Journal of Advanced Computer Technology(IJACT) : ISSN 2320-0790
2. IPASJ International Journal of Computer Science(IJCS). ISSN : 2321-5992, Impact Factor : 1.328.
3. International Journal of Technological Exploration and Learning(IJTEL). ISSN : 2319-2135. (Member in Reviewer Committee).
4. International Journal of Engineering Research. ISSN: 2371-7758.
5. International Journal of Enterprise Computing and Business Systems. ISSN : 2230-8849.
6. Digital Contents and Applications.
7. International Journal of Computational Science and Information Technology(IJCSITY). ISSN: 2320-7442.
8. International Journal of Computer Science and Management Research. ISSN : 2278-733X.
9. International Journal of Application or Inovation in Engineering and Management(IJAIEM). ISSN : 2319-4847. Impac Factor: 2.379.
10. Wudpecker Journals.
11. International Journal of Modern Engineering Research(IJMER). ISSN: 2249-6645.
12. International Journal of Emerging Trends & Technology in Computer Science(IJETTCS). ISSN: 2278-6856. Impact factor: 2.524.
13. International Journal of Modern Education and Computer Science(IJMECS). ISSN : 2075-017x.
14. IndianJournals.com
15. Journal of Global Research in Computer Science(JGRCS). ISSN : 2229-371X.
16. The World Academy of Research in Science and Engineering(WARSE): International Journal of Emerging Trends in Engineering Research(IJETTR).
17. International Journal of Computer Applications(IJCA). ISSN : 0975-8887.
18. International Journal of Computer Engineering Science.
19. IOSR Journal of Engineering . ISSN: 2250-3021.
20. Current Trends in Technology & Sciences. ISSN : 2279-0535. Impact factor: 5.10(Index Copernicus value).
21. International Journal of Electronics Communication and Computer Technology(IJECCT). ISSN: 2249-7838.
22. International Journal of Computer Communication & Information Technology(IJCCIT).
23. International Journal of Digital Contents and Applications(IJDCA). ISSN: 22878505.
24. International Journal of Advanced Computer Science and Applications(IJCSA).
25. International Journal of Recent Development in Engineering and Technology(IJRDET). ISSN: 2347-6435.
26. International Journal of Emerging Technology and Advanced Engineering.
27. International Journal of Computer Science and Information Security(IJCSIS).
28. International Journal of Marketing and Technology. ISSN: 2249-1058.
29. International Journal of Enterprise Computing and Business Systems. ISSN : 2230-8849. Impact factor: 1.232.
30. International Journal of Innovative Research in Advanced Engineering(IJIRAE). ISSN: 2349-2163. Impact Factpr: 0.585. (Member in Reviewer board).
31. American International Journal of Contemporary Scientific Research.

32. International Journal of Advanced Computer Research(IJACR). ISSN: 2277-7970. Impact factor: 1.863.
33. International Journal of Computer and Information Technology(IJCIT). ISSN: 22790763. Impact: 0.687.(Member of Reviewer Board).
34. Journal of Computing(USA). ISSN: 2251-9617

UGC Refreshers Course Attended:

1. “Theoretical Aspects of Computer Science”, held from 11/01/2007 to 02/02/2007 at Jadavpur University.
2. “Wireless Ad Hoc Sensor Networks”, held from 04/01/2010 to 23/01/2010 at Jadavpur University.

Orientation Programme of MCA/BCA counselor:

1. Attended “Orientation Program for the Academic Counsellors of MCA/BCA/CIC Program”, held at IGNOU Regional Centre, Bhubaneswar on 24-th and 25-th of September 2011.

Conference, Seminars, Workshops Attended:

1. IEEE International conference WICT-2011 held at Mumbai University Dec 11-14, 2011.
2. “IEEE International Conference on Computational Intelligence and Communication Networks(CICN-2011)” held at Gwalior 7-9 Oct, 2011.
3. “IEEE International Conference on Communication Systems and Network Technologies(CSNT-2011)” held at SMVDU, Katra(Jammu) 3-5 June,2011
4. “IEEE International Conference on Computational Intelligence and Communication Networks(CICN-2010)” held at RGPV, Bhopal 26-28 Nov,2010.
5. “Two day workshop on Role of Computing in Better Governance (CBG 2011)” held BIT, Meshra, Kolkata 30-31 July 2011.
6. “One-day seminar on Mobile Application Development Awareness” held at Techno India Auditorium, Saltlake, Kolkata 06/08/2011.
7. “Workshop on SPSS” held at St. Xavier’s College, Dec-2010 to Jan-2011.
8. “Workshop on FPGA Based VLSI System Design” held at CSI, Kolkata 17/01/2009.
9. “Training of Teachers in e-learning” sponsored by DST,Govt. of India, held at DOEACC Centre, JU,18/04/2005-20/05/2005.
- 10.“Workshop on Modeling and Simulation of Wireless Networks” held at University of Calcutta, Kolkata, 18/12/2008 to 20/12/2008.
- 11.“Workshop on Trends in Information Technology(Trit-2001)” held at Radio Physics & Electronics, University of Calcutta, 05/02/2001 to 10/02/2001.

12. "National Convention on data Communication on the theme: Internet : Opportunities & challenges by 2000 AD" held 13-14 September 1997 at CSI, Patna.
13. "Seminar on Matlab & Simulink for Engineering Education:" conducted by Mathworks India, held at Hotel Taj Bengal, Kolkata on 24/08/2010.
14. "Oracle9i Database Administration Fundamentals I R2" conducted by Oracle University, held at Bangalore, Nov 2008.
15. "Oracle 7 with Developer/2000 For Client server Applications" conducted by Oracle Software India Ltd, held at Kolkata 08/06/1998-14/07/1998.
16. "UGC Sponsored National Seminar-Cum-Workshop on Evaluation System at Undergrauate Level" held at St. Xavier's College 01/04/2007-02/04/2007.