

Rajesh Bose

PhD in Cloud Computing

Experienced Preceptor In Cloud Computing Technologies. IT Professional, IEEE Access Reviewer

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General Information

Date of Birth: 5th January 1981

Contact Information: Post: Barajaguli, Village: Dighapara, District: Nadia State: West Bengal.

Languages known: English, Hindi and Bengali and Oriya | Passport Number: S1702606 | PAN: ARPPB2975F

Experience: More than 15 years in academic and professional spheres.

Current Position: Currently employed as an Associate Professor at the Department of Computational Science, Brainware University, Kolkata, India. Associate as a **Consultant** at R&D Division of Simplex infrastructures Ltd, And pursuing PDF in Focusing Artificial Intelligence and Machine Learning in Clinical Practice for an Effective Prognosis, from Srinivas University, Karnataka With over 15 years of experience in Industry and education institutions, presently recognized by IEEE as an active IEEE Access Reviewer. Experienced in conceptualizing, designing, implementing, and managing projects in Cloud Computing and IoT in civil construction engineering sector as well as in academic research.

Awarded PhD from the University of Kalyani following submission of doctoral thesis titled

“A New Paradigm in Cloud Computing to Extend Multiple Services through a Common Gateway Based on Secure Virtualization”

Research and Development Expertise

Cloud computing, IoT, Wireless Communication and Networking, Big Data Analytics, Information Security

Scientific and societal impact of research

Patent: 2

Total number of publications: 75

Publications in the Journals: 46

Publication in the International Conferences: 9

Book Chapters: 8

Book Published by International Publisher: 12

For details: Please see Annexure

Google scholar: 240+ citations, h-index (Google): 8,

Scopus Author ID: 56735693500

Number of papers indexed in Scopus : 25+

Scopus: 15+ citations,

h-index (Scopus): 2. Web of Science Researcher ID-AAD-7012-2019

Links to Indexing

<https://scholar.google.co.in/citations?user=pIrBAH4AAAAAJ&hl=en>
<https://www.scopus.com/authid/detail.uri?authorId=56735693500>
<http://dblp.uni-trier.de/pers/hd/b/Bose:Rajesh>

Professional Affiliations

Associate Member (UACEE) of the Institute of Research Engineers and Doctors IRED, USA

Profile Summary

- Active IEEE Access Reviewer.
- Doctorate in Computer Science & Technology specializing in Cloud Computing.
- Patent application in process for doctoral thesis titled “A New Paradigm in Cloud Computing to Extend Multiple Services through a Common Gateway Based on Secure Virtualization”
- Author of more than 20 Scopus papers and 10 Springer titles and 12 books.
- Experienced in designing, formulating, and delivering industrial training programmes on application of Information Technology in the field of construction engineering.
- Citrix Certified Administrator (CCA) for Citrix Access Gateway 9 Enterprise Edition/Citrix Certified Administrator (CCA) for Citrix Xenapp5 for Windows Server 2008 with a career spanning comprehensive experience of 12+ years with 10 years in IT projects management and 2 years in IT subject education as Lecturer-Department of Computer Science, in Durgapur Institute of Advanced Technology and Management.
- Flair for managing IT projects with expertise and experience in guiding and mentoring engineering professionals through exemplary didactic and practical training.
- Capable of leveraging skills, experience, intellectual capital, and an integrated set of methodologies to solve business problems.
- Goal-oriented with strong team orientation and exemplary written and oral communication skills facilitating expertise in scientific and technical publications.
- Proven leadership skills, and able to generate new ideas, analyze and resolve challenges and realize institutional goals.
- Potential in forging new grounds with proven ability in knowledge development and student counseling.

Academic Qualification

EDUCATION

- 2019-2020 Post Doctoral Research Fellow(Pursuing)**
Topic: Focussing Artificial Intelligence and Machine Learning in Clinical Practice for an Effective Prognosis.
Registration Number: 20SUPDR001,
Date of Registration: 02/01/2020
Advisor: Prof. Dr. P. S. Aithal, Vice Chancellor, Srinivas University, India
- 2014 – 2018 Doctor of Philosophy (Ph.D.)**
Department of Computer Science and Engineering, Engineering, Technology & Management, University of Kalyani, West Bengal 741235, India.
Coursework Examination SGPA: 9 (90.5%), **Date of Defense Presentation: 10th January 2018, Date of Convocation: 1st November 2018**
- 2005 – 2007 Master of Technology (M.Tech)**
Mobile Communication & Network Technology ,Maulana Abul Kalam Azad University of Technology (Formerly known as West Bengal University of Technology), Kolkata, India. DGPA: 8.88 (81%)
- 2000 – 2004 Bachelor of Engineering (B.E)**
Bachelor of Engineering (B.E.), Computer Science and Engineering, Utkal University, Orissa, India, 2004 - (63.3%)
- 1999 Higher Secondary (Science)**
West Bengal Council of Higher Secondary Education, Barajaguli Gopal Academy, Nadia, West Bengal, India, Division & Marks obtained in percentage: First Division with 65%
- 1997 Secondary**
West Bengal Board of Secondary Education, Barajaguli Gopal Academy, Nadia, West Bengal, India, Division & Marks obtained in percentage: First Division with 76.0%

Professional Certifications

Cisco Certified Network Associate(CCNA)
CCNP-BCRAN (642-821).
Citrix Certified Administrator (CCA) for Citrix Access Gateway 9 Enterprise Edition
Citrix Certified Administrator (CCA) for Citrix Xenapp 5 for Windows Server2008.

Work Experience

Deputy Manager (IT), 15th January,2008 to 8th January,2020| Simplex Infrastructures Limited, Datacenter, Kolkata

Responsibilities and Accomplishments

Conducting negotiations with cloud service providers and assorted vendors to migrate from in-house data center to cloud; and designing an appropriate framework to create a balanced cloud migration option to support key business operational objectives of the organization. Supervising and evaluating proofs of concepts in real life construction environments involving IoT technologies and products combined with cloud computing tools and platforms consisting of SaaS and IaaS.

Played a key role in establishing up VMware and Citrix with conjoined infrastructures. Estimated project worth was Rs.60 Lacs. Spearheaded a team involved in setting up of infrastructure to support 35 live servers facilitating enhanced functioning in critical business areas of interest of the company.

In-charge of a team tasked with the responsibility of rolling-out IoT-based fuel-monitoring solution to be installed in hundreds of construction vehicles deployed at remote sites and projects across the country. The estimated worth of the project in the initial phase comprising 400 vehicles, was Rs. 50.00 Lacs. Accorded the responsibility of negotiating with vendors solely on behalf of my employers for implementation of fuel-monitoring solution involving gauge and capacitive technologies separately for enhanced control on regulating operational costs related to vehicle fleet management and construction machinery running on petrol and/or diesel.

Responsible for leading a team in design, development, implementation and delivery of key industrial training programmes for engineering students and civil construction professionals on Information Technology and tools with special emphasis on Data Center centric approach in large organizational setup.

Responsibility

- Installation and Configuration of ESX Server:
- Migration of Server using hot and cold cloning technology in VMware.
- Designing, Installing and Configuring VMware's, ESXi, within vSphere4 and vSphere5 environments.
- Exposure to Virtual Center Management, Lab Manager, vCloud Director, Consolidated Backup, DRS, HA, DPM, vMotion and Data Recovery.
- Experience in VMware Site Recovery Manager (SRM), vCenter Operations Manager, Horizon Workspace, Horizon Mirage, ThinApp and VMware View and desktop virtualization infrastructure (VDI).
- Creating Cluster in VMware
- Template Creation and Consolidation of Physical Servers
- Deployment and Cloning of Virtual Server
- Creation of Rules, back-up policy and alert configuration of backup policy
- Configuration of Vmotion, virtual switch, Vlan in Virtual center and maintenance of virtual center server.
- Patch Management/ SAN space allocation for ESX servers host.
- Scanning and configuring and troubleshooting for ESX server host.
- Familiarity with iSCSI, NFS, and Fiber Channel protocols, Fiber Channel cabling, switching, and zoning.
- Citrix Access Gateway and Citrix Xenapp 5 server
- Configuring, managing, monitoring and updating Citrix Access Gateway Enterprise Edition SSL VPN Appliance configuration, management and upgradation
- Citrix Presentation Server Troubleshooting and Maintenance
- IIS, Citrix, Application Support and troubleshooting in Citrix farm.
- Virtualization of various new application releases using releases using Citrix Streaming Profiler

- Expansion of Citrix farms by installing Citrix on new physical & virtual servers.
- Installation, Configuration and Troubleshooting of small/wireless networks, Network printers and print servers.
- Exposure to fiber SAN/ iSCSI SAN /NAS (DellEQLP6100XV) storage technology
- MPLS VPN lines, lease line and Internet link and monitoring and maintenance
- Vendor Coordination and Management.
- Designing, development, and implementation of industrial training programmes for engineering students and civil construction professionals.

Lecturer-Department of Computer Science, August 2005 to Dec 2007 | Durgapur Institute Of Advanced Technology And Management College, Durgapur

Responsibilities Accomplished:

Developed knowledge and skills of students across diverse facets of computer science and engineering; Subjects taught Computer Networks, Operating Systems, DBMS, Computer organization and architecture, Design and Analysis of Algorithm

Trainee Engineer, 2004 to 2005 | Shell & Kernel

Theory Courses Taught

Cloud computing
 Computer Networking
 Operating System
 Database Management System
 Wireless Communication
 Software Engineering

Supervision of Ph. D:

3 No. of candidate enrolled for Ph. D (Computational Science)

References:

Dr. Debabrata Sarddar

Assistant Professor ,Department of Computer Science and Engineering ,Faculty of Engineering, Technology and Management , University of Kalyani, Kalyani-741235, Nadia, West Bengal, India ,Mail id: dsarddar1@gmail.com, Mobile - 08478055947

Dr. Manas Kumar Sanyal

Professor and Dean, Faculty of Engineering, Technology and Management, Department of Business Administration, University of Kalyani. Kalyani-741235, Nadia, West Bengal, India , Mail id: manassanyal123@gmail.com, Mobile- 033 2582-8220

Annexure

Patent

1. R. Bose, S. Roy, “Smart Inventory Management System based on Embedded Electronics, Cloud Computing and IoT for the Construction Sector” **Application No. 202031027641**, July 2020.
2. S. Roy, R. Bose, A METHOD AND A SYSTEM FOR REAL-TIME FUEL MONITORING FOR CONSTRUCTION INDUSTRY ,Patent number: 2020102439.28 October 2020

Books

1. **A Deep Vista of the fascinating world of Cloud Computing**
LAP- Lambert Academic Publishing, Germany, ISBN:978-3-659-83343-4, February 2016
(Authors: **Rajesh Bose**, Debabrata Sarddar)
2. **Managing Business in the Civil Construction Sector Through Information Communication Technologies.** IGI Global.(Authors: Dr. Bithal Das Mundhra , **Dr. Rajesh Bose**),ISBN13: 9781799852919|ISBN10: 1799852911|EISBN13: 9781799852933|DOI: 10.4018/978-1-7998-5291-9, August 2020.
3. **Connecting the dots: Plunging into the world of Internet of Things**
LAP- Lambert Academic Publishing, Germany, ISBN:978-3-330-08891-7, May 2017
(Authors: Debabrata Sarddar, **Rajesh Bose**, Manas Kumar Sanyal)
4. **Synthesizing information security measures in the context of traditional IT infrastructure, and in the spheres of Cloud and IoT environments**
Research India Publication, India, ISBN: 978-93-86138-10-1, Sep 2017.
(Authors: **Rajesh Bose**, Sandip Roy)
5. **Interpreting SLA and related nomenclature in terms of Cloud Computing**
LAP- Lambert Academic Publishing, Germany, ISBN: 978-620-2-19960-5, December 2017
(Authors: **R.Bse**, S. Sengupta, S. Roy)
6. **Exploring the Fundamentals of Cloud Computing**
LAP- Lambert Academic Publishing, Germany, ISBN:978-613-9-58139-9, April 2018
(Authors: Debabrata Sarddar, **Rajesh Bose**, Sandip Roy)
7. **The Genesis and Current Trends of Virtualization in Cloud Computing**
LAP- Lambert Academic Publishing, Germany, ISBN: 978-613-9-96530-4, November 2018
(Author: **Rajesh Bose**)
8. **Evolution and Exploration of Storage for Cloud Computing**
LAP- Lambert Academic Publishing, Germany, ISBN: 978-613-9-44607-0, January 2019
(Authors: Sandip Roy, **Rajesh Bose** and Srabanti Chakraborty)
9. **Economics and Security Implications of Cloud Computing**, Publisher: Educreation Publishing ,India, ISBN: 9789353731427, August 2019, Author- Dr.Debabrata Sarddar, Sudipto Sahana, **Dr. Rajesh Bose**

10. Title-*Wading into NoSQL using MongoDB* , Publisher: LAP- Lambert Academic Publishing,Germany, ISBN: **978-620-0-46820-8** , November 2019, Author- **Dr. Rajesh Bose**, Mr. Susanta Karmakar, Dr. Sandip Roy .
11. Title- *Let Us Learn the Computer Basics*, Publisher: Starlet Publishing, ISBN: **978-93-5373-227-1** , January 2020, Author- **Dr. Rajesh Bose**.
12. Title-Bringing Into Focus Content Delivery Network of Amazon Cloud Services Bouquet,Publisher: STARLET PUBLISHING,India, ISBN: 978-93-89808-21-6 , February 2020,Author- **Dr. Rajesh Bose**, Dr. Sandip Roy .

Book Chapters

1. **Rajesh Bose**, S Roy and Debabrata Sarddar, “On Demand IOPS Calculation in Cloud Environment to Ease Linux-Based Application Delivery,” ICIC2, Chapter 8, Adv in Intelligent Syst. And Computing, Vol. 458, eBook ISBN 978-981-10-2035-3, Springer Singapore, Copyright 2017. (Indexed by *Thomson Reuters-ISI Proceedings, EI-Compendex, DBLP, Scopus and Springer link*)
2. **Rajesh Bose**, Sudipta Sahana and Debabrata Sarddar, “An Adaptive Cloud Communication Network Using VSAT with Enhanced Security Implementation”,Proceedings of the First International Conference on Intelligent Computing and Communication, Advances in Intelligent Systems and Computing 458, **Springer**,DOI 10.1007/978-981-10-2035-3_8.
3. S. Roy, **Rajesh Bose** and D Sarddar, “SSeS: A Self-configuring Selective Single-Path Routing Protocol for Cloud-Based Mobile Wireless Sensor Network,” ICIC2, Chapter 66, Adv in Intelligent Syst. And Computing, Vol. 458, eBook ISBN 978-981-10-2035-3, Springer Singapore, Copyright 2017. (Indexed by *Thomson Reuters-ISI Proceedings, EI-Compendex, DBLP, Scopus and Springer link*)
4. Sudipta Sahana, **Rajesh Bose**, Debabrata Sarddar,“Server Utilization-Based Smart Temperature Monitoring System for Cloud Data Center ”,Industry Interactive Innovations in Science, Engineering and Technology , **Springer**, Singapore .
5. **Rajesh Bose**, Raktim Kumar Dey, Sandip Roy and Debabrata Sarddar, “Analyzing Political Sentiment using Twitter Data,” ICTIS 2018, 6 – 7th April 2018. (Indexed by *Thomson Reuters - ISI Proceedings, EI-Compendex, Scopus and Springer link*)
6. Sudipta Sahana, **Rajesh Bose**, Debabrata Sarddar,“Fog-Based Hierarchical Search Optimization”,Annual Convention of the Computer Society of India,Kolkata ,19-21 January , CSI 2018,In: Mandal J., Sinha D. (eds) Social Transformation – Digital Way. CSI 2018. Communications in Computer and Information Science, vol 836. Springer, Singapore. ISBN 978-981-13-1342-4.

7. **Rajesh Bose**, Raktim Kumar Dey, Sandip Roy and Debabrata Sarddar, “Time Series Forecasting using Double Exponential Smoothing for Predicting the Major Ambient Air Pollutants,” ICT4SD 2018, Goa, India .
8. **Rajesh Bose**, Raktim Kumar Dey, Sandip Roy and Debabrata Sarddar, “Sentiment Analysis on Online Product Reviews”, CT4SD 2018, Goa, India

Publications in the Journals

1. **Rajesh Bose**, Debabrata Sarddar, “A new approach in mobile gaming on cloud based architecture using Citrix and VMware technologies”, Brazilian Journal of Science and Technology - **Springer International Publishing, Springer Nature**, Vol.2, No.7, pp. 1-13, 2015.DOI 10.1186/s40552-015-0012-1. (Indexed by MEDLINE, OCLC, Summon by Serial Solutions)
2. Debabrata Sarddar, **Rajesh Bose**, Sudipta Sahana , “A Novel Approach on Weight Based Optimized Routing for Mobile Cloud Computing” Brazilian Journal of Science and Technology - **Springer International Publishing, Springer Nature**, Vol.2, No.3, pp. 1-12, 2015.DOI 10.1186/s40552-015-0008-x.(Indexed by MEDLINE, OCLC, Summon by Serial Solutions)
3. S. Roy , **R. Bose** and D. Sarddar, “Self-servicing energy efficient routing strategy for smart forest” Brazilian Journal of Science and Technology - **Springer International Publishing, Springer Nature**, Vol.3, No.13, pp. 1-21,DOI 10.1186/s40552-016-0026-3.(Indexed by MEDLINE, OCLC, Summon by Serial Solutions)
4. Sudipta Sahana, **Rajesh Bose**, Debabrata Sarddar ,“Harnessing RAID mechanism for enhancement of data storage and security on cloud ”, Brazilian Journal of Science and Technology - **Springer International Publishing, Springer Nature**, Vol.3, No.12, pp. 1-13, 2016.DOI 10.1186/s40552-016-0024-5.(Indexed by MEDLINE, OCLC, Summon by Serial Solutions)
5. **R Bose** , S Roy, D.R.Chowdhury, S Chakraborty “Lowering the Carbon Emissions Footprint of Data Centers Maintaining Effective Power Usage ”, **Advances in Electrical and Computer Engineering**, ISSN **1582-7445** ,October 2017.(Indexed by **Science Citation Index Expanded, Scopus, INSPEC**)
6. R Bose, S Roy, S Chakraborty, I Sarkar “Development of a Real-Time Fuel Monitoring System for Construction Industry Using Internet of Things ”, **International Journal of Innovative Technology and Exploring Engineering**, **January 2020**.(Indexed by **Scopus**,)
7. D Sarddar, R K Dey, **R Bose** and **S Roy**, “Topic Modeling as a Tool to Gauge Political Sentiments from Twitter Feeds”, IJNCR, Vol. 9, No. 2, **IGI Global**, USA, August 2019 (AIF 0.73) (Principal Author) (Indexed by **IET INSPEC, ACM, DBLP**)
8. **Rajesh Bose** ,Sudipta Sahana , and Debabrata Sarddar , “An Adaptive Cloud Service Observation using Billboard Manager Cloud Monitoring Tool”, International Journal of

Software Engineering and Its Applications Vol. 9, No. 7 (2015), pp. 159-170,ISSN: 1738-9984 IJSEIA.<http://dx.doi.org/10.14257/ijseia.2015.9.7.17>.(Indexed by **Scopus**)

9. Sudipta Sahana, **Rajesh Bose**, Debabrata Sarddar,“ An Enhanced Search Optimization Proposal Based on Gossip Protocol for the Cloud”International Journal of Applied Engineering Research,Research India Publication ,Volume 12, Number 19 , ISSN 0973-4562 ,October 2017.(Indexed by **Scopus**)
10. R Bose, R K Dey, S Chakraborty, **S Roy** and D Sarddar, “Examining Hidden Meaning of E-commerce Platform”, IJITEE, Vol. 8, No. 12, pp. 257 – 261, October 2019 (Indexed by **Scopus**)
11. S Chakraborty, R Bose, **S Roy** and D Sarddar “Auditing Deployed Software Licenses on Cloud Using a Secure Loopback Protocol”, IJRTE, Vol. 8, No. 3, pp. 5159 – 5183, September 2019 (Indexed by **Scopus**)
12. **S Roy**, R Bose, and D Sarddar, “A Fog-Based DSS Model for Driving Rule Violation Monitoring Framework on the Internet of Things”, IJAST, Vol. 82, No. 9, pp. 23-32, September 2015 (Indexed by **Scopus**, EBSCO).
13. **Rajesh Bose**, Himadri Biswas, Debabrata Sarddar, “ A New Approach in Delivering Building Information Modeling Applications and Data to Remote Users over Cloud through Billboard Manager” , International Journal of Computer Applications, Volume 119 - No.14 , ISSN 0975 – 8887,June 2015.(Indexed by **Scopus**)
14. **Rajesh Bose** , Himadri Biswas , Debabrata Sarddar , Manas Kumar Sanyal , “Cloud Billing & Verification of Consumed Resources and Storage Spaces by a Cloud User”, International Journal of Applied Engineering Research, Research India Publications , ISSN 0973-4562 Volume 11, Number 9 (2016) pp 6568-6576. (Indexed by **Scopus**).
15. **S Roy**, R Bose, T Roy and D Sarddar, “Cloud-Enabled Data Center Organization using K-D Tree”, IJDTA, Vol. 8, No. 3, pp. 69-76, June 2015 (**Indexed by Scopus, EI Compendex, EBSCO**) (**SCImago SJR 2015 0.125**).
16. D Sarddar, R K Dey, R Bose and **S Roy**, “Introducing Cloud Pooling Techniques for Improved Data Retrieval”, IJR, Vol. 8, No. 4, April 2019 (IF 5.7) **UGC Approved Journal**.
17. **S Roy**, R Bose and D Sarddar, “Smart and Healthy City Protecting from Carcinogenic Pollutants”, IJAES, Vol. 12, No. 9, pp. 1661 – 1692, September 2017 (**SCImago SJR 2016 0.104**) **UGC Approved Journal List Serial No. - 2016: 137**.
18. S Roy, **R Bose** and D Sarddar, “Impaired Driving and Explosion Detection on Vehicle for Ubiquitous City”, IJCIR, Vol. 13, No. 5, pp. 1167 – 1189, May 2017 (Indexed by ACM Computing Reviews, ACM Guide to Computing Literature, DBLP, EBSCO) **UGC Approved Journal List Serial No. - 2016: 16568**.
19. **S Roy**, D Sarddar, B Bhattacharya, R Bose, “DFVGWRP: A Data Fusion Virtual Grid-Based Weighted Rendezvous Planning for Mobile Sink Based Wireless Sensor Networks”, AWMC, Vol. 10, No. 4, pp. 801 – 818, April 2017 (Indexed by EBSCO) **UGC Approved Journal List Serial No. (2016): 1530**.

20. R Bose, **S Roy** and D Sarddar, “A Billboard Manager Based Model That Offers Dual Features Supporting Cloud Operating System And Managing Cloud Data Storage”, IJHIT, Vol. 8, No. 6, pp. 229-236, June 2015 (**Indexed by EI Compendex, EBSCO**)
21. R Bose, **S Roy** and D Sarddar, “User Satisfied Online IaaS Cloud Billing Architecture with the Help of Billboard Manager”, IJGDC, Vol. 8, No. 2, pp. 61-78, April 2015 (Indexed by Thomson Reuters-**Emerging Sources Citation Index (ESCI)**, EI Compendex, EBSCO)
22. D Sarddar, **S Roy**, and R Bose, “A Tool based Edge Server Selection Technique using Spatial Data Structure”, GJCSE, Vol. 14, No. 3, pp. 13-17, September 2014 (Aptitude Flux (AF): 65.884% (6.5) for Year 2013-2014).
23. D Sarddar, **S Roy**, and R Bose, “Queueing Based Edge Server Selection in Content Delivery Network Using Haversine Distance”, IJECCT, Vol. 4, No. 5, pp. 749-754, September 2014 (UIF 1.2456).
24. D Sarddar, S Roy and **R Bose**, “An Efficient Edge Servers Selection in Content Delivery Network Using Voronoi Diagram”, IJRITCC, Vol. 2, No. 8, pp. 2326-2330, August 2014 (SJIF 5.098). **UGC Approved** Journal List Serial No.: 49222.
25. **Rajesh Bose**, Debabrata Sarddar, “ Billboard Manager based tools helps the critical virtual machines to migrate in appropriate cloud nodes automatically”, International Journal of Scientific Research in Computer Science Applications and Management Studies, Volume 4, Issue 2 , ISSN 2319 – 1953, March 2015.
26. **Rajesh Bose**, Debabrata Sarddar, “ Developing a Secure Mode for Hybrid Distribution of University Course Learning Materials ”, International Journal of Computational Intelligence Research , Volume 13, Issue 8 , ISSN 0973-1873 , August 2017.
27. **Rajesh Bose** , Sudipta Sahana , Debabrata Sarddar , “An Efficient Model of Distribution and Storage of Big Data across Cloud-based Nodes using Billboard Manager”, International Journal of Scientific & Engineering Research, Volume 6, Issue 5, pp.1556-1565, ISSN 2229-5518, May-2015.
28. **Rajesh Bose** , Sudipta Sahana , and Debabrata Sarddar , “An Energy Efficient Dynamic Schedule based Server Load Balancing Approach for Cloud Data Center” , International Journal of Future Generation Communication and Networking, Vol. 8, No. 3, pp. 123-136, June 2015. (**Indexed by ProQuest , ULRICH , DOAJ , J-Gate , Cabell , Emerging Sources Citation Index (ESCI))**
29. **Rajesh Bose**, Murari Krishna Saha, Debabrata Sarddar, “ Fog Computing Made Easy with the Help of Citrix and Billboard Manager, “ International Journal of Computer Applications, Volume 121 - No.7 , ISSN 0975 – 8887, June 2015.
30. **Rajesh Bose**, Sudipta Sahana, Debabrata Sarddar , “ An Enhanced Storage Management Scheme with Search Optimization for Cloud Data Center”, International Journal of Applied Engineering Research, Volume 10, Number 12(2015), ISSN 0973-4562, pp. 32141-32150.

31. Debabrata Sarddar , **Rajesh Bose**, “Reducing Carbon Emission Rate Using Billboard Manager (BM)”, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 3, Issue 9 , pp.572-580, ISSN: 2277 128X, September 2013.
32. Debabrata Sarddar , **Rajesh Bose**, “Creating a Secured Cloud Based Data Center Using Billboard Manager (BM) and Secure Co-Processor”, International Journal of Scientific & Engineering Research, Volume 4, Issue 12, pp.973-978, ISSN 2229-5518, December-2013.
33. Debabrata Sarddar , **Rajesh Bose**, “Secure Co-processor and Billboard Manager Based Architecture Help to Protect & Store the Citrix Xenserver Based Virtual Data”, An international journal of advanced computer technology, Volume 3, Issue 1, pp.473-479, ISSN:2320-0790, January-2014.
34. Debabrata Sarddar ,**Rajesh Bose**, “A Mobile Cloud Computing Architecture with Easy Resource Sharing”, International Journal of Current Engineering and Technology, Volume 4, Issue 3, pp.1249-1254,E-ISSN 2277 – 4106, P-ISSN 2347 – 5161, June 2014.
35. Debabrata Sarddar , **Rajesh Bose**, “Architecture of Server Virtualization Technique Based on VMware ESXI server in the Private Cloud for an Organization”, International Journal of Innovation and Scientific Research, , Volume 12, Issue 1, pp. 284-294, ISSN 2351-8014,Nov. 2014.
36. Debabrata Sarddar, **Rajesh Bose**, Sudipta Sahana , “An Enhanced Cloud Network Load Balancing Approach Using Hierarchical Search Optimization Technique “ International Journal of Hybrid Information Technology” , Vol.8, No.3,pp.9-20,ISSN: 1738-9968,2015.
37. Ranjan Kumar Mondal, **Rajesh Bose** and Debabrata Sarddar, “Load Balancing with Tree Parity Machine”, International Journal of Grid Distribution Computing,Vol. 8, No. 3, (2015), pp.167-178.ISSN: 2005-4262.
38. Debabrata Sarddar, Bhavya Deep, **Rajesh Bose**,”Examining Virtualization: A Survey into Fundamentals and Techniques”,International Journal of Scientific & Engineering Research, Volume 7, Issue 9 ,ISSN 2229-5518, September-2016.
39. Bhavya Deep , **Rajesh Bose** , Iti Mathur , Nisheeth Joshi ,“ Seamless Selection of Printers and Printing using Cloud Computing”, International Journal of Electrical Electronics & Computer Science Engineering , Special Issue - ICSCAAIT-2018 , P-ISSN : 2454-1222 .
40. Bholanath Mukhopadhyay , **Dr. Rajesh Bose** , Dr. Sandip Roy ,“ A Novel Approach to Load Balancing and Cloud Computing Security using SSL in IaaS Environment ”,International Journal of Advanced Trends in Computer Science and Engineering, Volume 9 No.2, March - April 2020,ISSN 2278-3091 .
41. Dr. Debabrata Sarddar,Raktim Kumar Dey,Dr. Rajesh Bose,Dr. Sandip Roy,“ Topic Modeling as a Tool to Gauge Political Sentiments from Twitter Feeds ”,International Journal of Natural Computing Research Volume 9 • Issue 2 • April-June 2020 .IGI .

42. Rajesh Bose, Sandip Roy, Srabanti Chakraborty, Indranil Sarkar ,," Development of a Real-Time Fuel Monitoring System for Construction Industry using Internet of Things ",International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-9 Issue-3, January 2020 .
43. Raktim Kumar Dey,Debabrata Sarddar,Indranil Sarkar,Rajesh Bose,Sandip Roy," A Literature Survey On Sentiment Analysis Techniques Involving Social Media And Online Platforms",INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH VOLUME 9, ISSUE 05, MAY 2020.
44. Paramita Chatterjee,Rajesh Bose,Sandip Roy," A Review on Architecture of Secured Cloud Based Learning Management System ",Journal of Xidian University,VOLUME 14, ISSUE 7, 2020.
45. Sandipan Biswas,Indranil Sarkar,Prasenjit Das,Rajesh Bose,Sandip Roy," Examining the Effects of Pandemics on Stock Market Trends through Sentiment Analysis",Journal of Xidian University,VOLUME 14, ISSUE 6, 2020.
46. Rajesh Bose Subinoy Adhikari, Ahona Ghosh, Prasenjit Das, Sandip Roy ,," An Image Based Activity Recognition",International Journal of Emerging Trends in Engineering Research ,VOLUME 8, ISSUE 5, 2020.

Publication in the International Conferences

1. **R.Bose** ,S.Roy and D.Sarddar,"Mobile Based Video Caching Architecture Based On Billboard Manager",Gridcom-2015,Arxiv.
2. S.Roy,**R.Bose**, D.Sarddar, "Non-recursive Inorder Traversal on Constructed Threaded K-D Tree for Efficient Cloud Based Space Partitioning", International Conference on Advances in Computer Engineering and Applications (ICACEA), 2015 **IEEE**.
3. S.Roy, **R.Bose**, D.Sarddar, "A Novel Replica Placement Strategy Using Binary Item-to-item Collaborative Filtering for Efficient Voronoi-based Cloud-oriented Content Delivery Network", International Conference on Advances in Computer Engineering and Applications (ICACEA),2015 **IEEE**.
4. S. Roy,**R.Bose**, D.Sarddar,"Fuzzy Based Dynamic Load Balancing Scheme for Efficient Edge Server Selection in Cloud-Oriented Content Delivery Network using Voronoi Diagram " **IEEE** International Advance Computing Conference (IACC),2015.
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