National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile:

Dr. S. Mary Saira Bhanu received the B.E. Degree in Electronics and Communication Engineering from Madurai Kamaraj University in 1986. She completed her M.E. in Computer Science from REC, Tiruchirappalli (now NITT) in 1989. She received her Ph.D. Degree from NITT in the year 2009. She joined the institution as Research Assistant in the year 1987 and served as Lecturer from 1990 in the Department of Computer Science and Engineering. Currently, she is an Associate Professor. She is incharge of Department Library and M.Tech. Laboratory. She was a member of various committees such as Hospital, Estate Welfare, Foreign student cell, MIS etc., and was also the staff advisor of UNESCO club (2003-2005). She is the treasurer of Computer Science and Engineering Association. She has organised workshops/seminars for the research scholars and students of institute in the domain of Social networking, Big Data and Cloud Computing, Big Data Analytics and Data Science. Her area of research interests include Operating systems, Distributed, Grid and Cloud Computing, Network Security, Big Data and Cloud Forensics, Fog Computing. The number of Research scholars who are pursuing Ph.D. students is 7 and among them one had submitted the thesis. She has published around 55 papers in Journals and Conferences both International and National. She is the Principal Developer for the course "Operating systems", Computer Science & Engineering Division of the Pedagogy project funded by National Mission Project on Education through ICT, Ministry of Human Resource Development, Government of India.

1. Name: S.MARY SAIRA BHANU

2. Designation: ASSOCIATE PROFESSOR

3. Office Address: Department of CSE, NIT, Trichy

4. Telephone (Direct) (Optional):

   Telephone :   0431 2503207

   Mobile (Optional): 9442970006

5. Email (Primary):msb@nitt.edu   Email (Secondary) :msbnitt@gmail.com

6. Field(s) of Specialization: Operating Systems, Grid and Cloud Computing, Network Security, Big Data, Wireless Mesh Networks and Fog Computing.

7.   Employment Profile

Job Title	Employer	From	To
Associate Professor	Director, NIT, Trichy	1.1.2006	till date
Lecturer (SG)	Principal, REC, Trichy	1.1.2001	31.12.2005
Lecturer (SS)	Principal, REC, Trichy	1.3.1996	31.12.2000
Lecturer	Principal, REC, Trichy	1.3.1990	29.2.1996
Research Assistant	Principal, REC, Trichy	19.1.1987	28.2.1990

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	NIT, Trichy	2009	NA	Grid Computing
M.E.	Bharathidasan University	1989	First Class	Computer Science
B.E.	Madurai Kamaraj University	1986	First Class	Electronics and Communication Engineering
XII Standard	Tamil Nadu State Board	1982	First Class	Tamil, English, Mathematics, Physics, Chemistry, Biology
X Standard	Tamil Nadu State Board	1980	First Class	Tamil, English, Mathematics, Science, History & Geography

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Library Incharge	CSED	1990	Till date
Staff Advisor	UNESCO Club	2003	2005
Chair Person	PAC, (Third, Fourth, Fifth, Sixth semester, CSE)	2007	Till Date
Lab Incharge	M.Tech. Lab , CSED	2008 2013	2010 Till date
Member	B.Tech. Project Evaluation Committee	2007	2008
Member	M.Tech. Project Evaluation Committee	2009 2011	2010 2012
Chairperson	M.Tech. Project Evaluation Committee	2014	2015
Member	Institute Hospital Committee	2010	2012
Member	Institute Foreign Student Cell	2011	2013
Member	Institute Estate Welfare Committee	2002	2004

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member (Board of Studies)	Alagappa College of Engineering, Karaikudi	2010	Till date
Member (Ph.D.Doctoral Committee)	Anna University , Chennai	2012	Till Date

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2014	Distinguished Alumni Serving Faculty Award	NIT, Trichy

12. Fellowships – NIL-

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work
  (i)   Curriculum Development
         M.Tech. (CSE) Subjects : Cloud Computing, Advanced Concepts in Operating Systems, Real Time Systems, Software Systems Laboratory.
         B.Tech. (CSE) Subjects: Operating Systems, Distributed Computing, Real Time Systems, Cloud Computing, Operating Systems Laboratory

  (ii)   Courses taught at Postgraduate and Undergraduate levels
         M.Tech. (CSE) : Advanced Concepts in Operating Systems, Cloud Computing, Real Time Systems, Advanced Computer Architecture, Computer Networks.
         UG: Distributed Systems, Operating Systems, Computer Graphics, Real Time Systems, Elements of Computing Systems, Computer Networks.
  (iii) Projects guided at Postgraduate level

Project Titles

Sl. No.	Title of the project
1.	O2DBMS- Object oriented database management system using C++
2.	A resilient mutual exclusion algorithm for computer networks
3.	New utilities for Unix Network Management
4.	Load Balancing in a network of unix systems
5.	Multicast Communication in multicomputer networks
6.	Implementation of a Heuristic mutual exclusion algorithm in a distributed system
7.	Leader election algorithm in a distributed system
8.	Task Coordination in a groupaware environment
9.	Heuristic methods for dynamic load balancing
10.	Dynamically selecting protocols for remote socket applications
11.	Implementation of concurrent message transmissions in a ring network
12.	Distributed Hypertext Infostructure Maintenance
13.	Implementation of an algorithm for finding the K-Best allocations in a distributed system
14.	Implementation of a crash recovery technique in a distributed system
15.	Causal ordering in reliable group communication on a network of Unix workstation
16.	Simulation of ring protocols using TCP/IP and their performance evaluation
17.	Leader election in hypercubes in the presence of failures
18.	Internet Mobile host protocol
19.	Web based Management information base (MIB)Browser
20.	Mirror site synchronization using IP multicast
21.	Simulation of multicast archie server hierarchy
22.	Simulation of mobile transmission control protocol
23.	Simulation of extended reliable multicast protocol

24.	Implementation of Hypertext resource discovery system based on keyword , pattern and sample
25.	Addition of security aspects for network management system and for web based applications
26.	Simulation of web server performance manager system using Java
27.	Design and Implementation of Client/Server multimedia dictionary application
28.	Soft Switch for interactive voice response system
29.	Simulated study of source adaptive multilayered multicast algorithm for video distribution
30.	Simulation of circuit mode control entity as a part of tetra protocol stack
31.	Simulation of GPS enabled object tracker
32.	Simulation of Synchronous bandwidth allocation for real time communications
33.	SyncML Implementation for PIM databases
34.	Design and development of SIP tester for load testing of SIP components
35.	Scheduling Parallel best-effort and real time applications on Clusters Phase I
36.	Implementing NAT traversal algorithms for communication using SIP Phase II
37.	Grid Computing – phase II
38.	Implementation of Grid resource broker with advance reservation phase II
39.	Desktop Grids Design and Implementation with extended OS services and enhanced web services with secure kernel hypervisor approach – Phase I
40.	Implementation of WS-security in Grid- Phase I
41.	Resource discovery and selection in grid environments Phase I
42.	Adaptive resource allocation for jobs in grid phase I
43.	Desktop Grids Design and Implementation with extended OS services and enhanced web services with secure kernel hypervisor approach – Phase II
44.	Implementation of Mutual Authentication in grid Phase II
45.	Decentralized resource discovery in grid environments Phase II
46.	Remote memory paging and prefetching techniques for jobs in grid- phase II
47.	Economic models for managing resources in mobile agent based grid- phase I
48.	Peer-to-Peer protocols for resource discovery in the Grid
49.	Autonomic Load Balancing in heterogeneous overlay networks with SADDR
50.	Peer-to-Peer approach for resource discovery in grid environments- Phase II
51.	Mobile Agent based resource discovery using Grid Market directory- phase II
52.	Adaptive IOCM load balancing algorithm in network of heterogeneous workstations Phase II
53.	Randomized Grid resource discovery based on routing transferring model- phase I
54.	A genetic algorithm based scheduler for data grid- phase I
55.	Dynamic replication strategies for a data grid phase I
56.	An economy based replica selection for a mobile user in data grid environment Phase II
57.	Scheduling data intensive tasks using hybrid meta heuristics in data grid environments- phase II
58.	A hybrid approach for group base grid resource discovery – Phase II

59.	Secure communication in a simulated grid phase I
60.	Ontology based grid resource discovery in a simulated grid environment phase I
61.	Resource selection based on Auction algorithms Phase I
62.	Secure group communication in a simulated grid Phase II
63.	Group aware semantic matchmakers for grid resource discovery Phase II
64.	Resource scheduling using dynamic job grouping in the simulated grid environment Phase II
65	Scheduling distributed real time tasks in Unreliable and Untrustworthy systems Phase I
66.	Performance comparison of Multicast protocols for MANETs Phase I
67.	Context aware intrusion detection in MANETs Phase I
68.	Context aware Intrusion tolerance in MANETs Phase II
69.	Secured and QoS based Multicast routing in MANETs Phase II
70.	Scheduling distributed real time tasks in Unreliable and Untrustworthy systems Phase II
71.	Data Security using Secure XML
72.	Fault Tolerance in Wireless Sensor Networks
73.	Verification of XML Signature for Data Security
74.	An efficient barrier Coverage technique for area monitoring in WSNs
75.	Qos based Scheduling of Workflows in a simulated cloud environment
76.	DDOS attack detection and Prevention using 2- level Verification
77.	Fault Tolerant Workflow Scheduling based on Replication and Resubmission of task in a simulated cloud environment
78.	DDOS attack detection and Prevention using 2- level Verification
79.	Prevention of Cross site scripting and Command Injection Attacks in Cloud
80.	Securing the cloud data centers from SQL Injection attacks
81.	An Extrusion detection against Botclouds
82.	Detection of Economic Denial of Sustainability attack using Time spent on a web page in cloud
83.	Automation of power and performance validation flow of server processors
84.	Automatic update installer
85.	Integration of PTZ Camera to the NVR based Surveillance System
86.	Prevention of DDOS attack using Map Reduce in Cloud Environment
87.	Secure role based access control for cloud storage systems
88.	Detection of DDoS Attack Using Data Mining Techniques
89.	Identity-Based Key management for hierarchical cloud
90.	Hybrid Recommendation System by combining Collaborative and Content based filtering techniques
91.	DRM scheme for semi trusted cloud computing environment
92.	Ontology based Hybrid recommender systems
93.	Attribute based digital rights management scheme for semi-trusted cloud computing environment with efficient revocation

(iv)   Other contribution(s): Participating in Purchase of Computers for the Department, Participating in Ph.D. application processing and Selection.

14. Details of Major R&D Projects : -------- ******

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

****** Principal Developer for the course "Operating systems", Computer Science & Engineering Division of the Pedagogy project funded by National Mission Project on Education through ICT, Ministry of Human Resource Development, Government of India. (Duration: August 2013 – August 2016; Status: Completed)

15. Number of PhDs guided -   ----- ******

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

***** Mrs. T. Veni submitted the Thesis titled "A study on Server Consolidation Techniques in Cloud" for evaluation by the examiners on October 26, 2016

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
June 6 – June 19, 1993	Object oriented programming and C ++	National	Participant	Department of Mathematics and Computer Applications, P.S.G. college of Technology,	Coimbatore
July 4 – July 15, 1994	Theory and application of Neural networks	National	Participant	Centre for continuing education, I.I.Sc.	Bangalore

Oct 28 – Nov 1, 1996	Java Programming	National	Participant	School of Computer Science and Engineering, Anna University	Chennai
Nov 20 – Dec 2, 2000	Component based object technology	National	Participant	Department of Computer Science & Engineering, P.S.G. college of Technology,	Coimbatore
Jan 21 – Feb 2, 2002	High Speed networks	National	Participant	School of Computer Science and Engineering, Anna University	Chennai
Dec 22, 2006	Seminar on research Directions in Information Technology and Applications	National	Participant	National Institute of Technology,	Tiruchirappalli
Jan 20 – Jan 23, 2007	Open Solaris	National	Participant	Sun's India Engineering centre,	Bangalore
Nov 29-Nov 30, 2007	Matlab and its applications	National	Participant	National Institute of Technical Teachers Training & Resources, Taramani,	Chennai
Jan 25, 2008	Workshop on Introduction to simulating complex Predictive system and Bayesian Modelling in Image Processing	National	Participant	National Institute of Technology	Tiruchirappalli

Aug 8 – Aug 10, 2008	Workshop on Algorithms	National	Participant	National Institute of Technology	Tiruchirappalli
July 3 – July 5, 2009	Workshop on Essential Abstractions in GCC	National	Participant	Department of CSE, IIT Bombay	Mumbai
Jan 7- Jan 9, 2010	Research Promotion workshop on Introduction to Graph and Geometric Algorithms	National	Participant	National Institute of Technology	Tiruchirappalli
July 15- July 16, 2011	Garuda-NKN Meet	National	Participant	CDAC	Bangalore
August 8- August 10, 2012	Indo-US workshop on Cloud Computing and Web Services	National	Participant	Department of CSE, CIT	Coimbatore
April 28 – April 29, 2015	Conclave on Academic Reforms	National	Participant	National Institute of Technology	Tiruchirappalli
August 27- August 29, 2007	International Conference on Modeling and Simulation	International	Paper Presenter	CIT	Coimbatore
March 15- March 16, 2013	International Conference on Mathematics and Information Technology	International Conference	Paper Presenter	World Academic – Industry Research Collaboration Organization (WAIRCO)	Chennai
September 19, 2009	National workshop on "Globus toolkit and research directions in	National	Speaker	SSN College of Engineering	Chennai

	Computational grids"				

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Research issues and challenges in Social Network Computing	National	May 4, 2012	Coordinator	NIT, Trichy
Data Management on Cloud computing Platform	National	August 1, 2012	Coordinator and Resource Person	NIT, Trichy
Workshop on Big Data Analytics	National	Dec 12- 13, 2014	Coordinator and Resource Person	NIT, Trichy
Workshop on Big Data Analytics: Tools & Techniques	National	June 8-12, 2015	Coordinator and Resource Person	NIT, Trichy
National Conference on Big Data and Cloud Computing (NCBDC^2)	National	March 20-21, 2015	Organizing Chair	NIT, Trichy
TCS iON Learning Exchange " Workshop (TEQIP-II)	National	Jan 29, 2015	Coordinator	NIT, Trichy
DST Sponsored Workshop on Data Science Research	National	November3 – November 5, 2016	Coordinator	Nit, Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Grid Computing	September 26, 2009	Oxford College of Engineering, Trichy
Grid Computing - Overview and Research Issues	October 26, 2009	Madurai Kamaraj University, Madurai
Distributed Systems and CORBA	February 26, 2010	EGS Pillai College of Engineering, Nagapattinam

Cloud Computing	November 11, 2011	Krishnasamy College of Engineering and Technology, Cuddalore,
Security issues on Grid and Cloud Computing	June 6, 2011	Alagappa College of Engineering, KaraiKudi
High Speed Networks	October 12, 2013	Anna University, Pattukkottai
Middleware Technologies	August 14, 2012	MAM College of Engineering, Trichy
Distributed Systems	February 19, 2016	Anjalaiammal College of Engineering, Kovilveni

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISTE	LM12416, 30-03-1992
Life Member	CSI	00170955, 01.02.2008
Member	ACM	6051215,16.10.2014

20. Academic Foreign Visits – NIL-

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals: **Please see the Annexure**

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)

(B) Conferences/Workshops/Symposia Proceedings : **Please see the Annexure**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs : - NIL-

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number

ANNEXURE

List of Publications

Journals

1.   S. Selvakumar, S. Mary Saira Bhanu, and S. Chandramouli, "Simulation of Mobile Transmission Control protocol", *Journal of Computer Science and Informatics, Computer Society of India*. Vol.29 No.4 December 1999

2.   S. Mary Saira Bhanu, S. Radha and N. P. Gopalan , Enhancement of Remote memory paging using Prefetching in Grid, *Journal of the CSI*, Vol. 37 No.3, July - September 2007, pp 12 -19

3.   S. Mary Saira Bhanu and N. P. Gopalan , Host based intrusion detection for enforcing kernel security in Desktop grids, *Journal of Current Sciences,* Vol. 10 (2): 425-430 (2007)

4.   S. Mary Saira Bhanu and N. P. Gopalan , A Hyper-Heuristic approach for Efficient Resource Scheduling in Grid, *IJCCC International Journal of Computers, Communications and Control*, Vol. III (2008), No. 3, pp. 249-258. (SCI Expanded Impact Factor/3 years in JCR2011: 0.438)

5.   Maya Mohan and S. Mary Saira Bhanu, Secured and QoS based multicast routing in MANETs, *IJCSIS International Journal of Computer Science and Information Security,* Vol. 8 (2010) No. 4, pp. 140-148.

6.   R.S. Ambili Chandran and S. Mary Saira Bhanu, Context-Aware Intrusion Detection and Tolerance in MANETs, *ACEEE Int. J. on Network Security*, Vol. 01, No. 03, Dec 2010 pp. 15 – 19.

7.   S. JayaDivya , S. Mary Saira Bhanu and S. Jaya Nirmala, Fault tolerant workflow scheduling based on replication and resubmission of tasks in Cloud Computing, *International Journal on Computer Science and Engineering (IJCSE),* Vol. 4 No. 06 June 2012, pp. 996-1006.

8. S. Stephen Vaithiya and S. Mary Saira Bhanu, Zone based Job Scheduling in Mobile Grid Environment, *International Journal of Grid Computing & Applications (IJGCA)* Vol.3, No.2, June 2012, pp. 43-55

9. S. Jaya Nirmala , S. Mary Saira Bhanu and Ahtesham Akhtar Patel, A Comparative Study of the Secret Sharing Algorithms for Secure Data in the Cloud, *International Journal on Cloud Computing: Services and Architecture(IJCCSA)*,Vol.2, No.4, August 2012, pp. 63-71

10. S. JayaDivya and S. Mary Saira Bhanu QoS Based Scheduling of Workflows in Cloud Computing International Journal of Computer Science and Electrical Engineering (IJCSEE) ISSN No. 2315-4209, Vol-1 Iss-1, 2012 pp 15-21

11. N. Tulsiram, K. Anusha and S. Mary Saira Bhanu, An Analysis of Malware Injection Attacks and their Impact on Cloud, *Engineering Sciences International Research Journal,* Vol. I Issue 1 Feb 2013. pp 57-61.

12. T. Veni and S. Mary Saira Bhanu , Dynamic energy management in cloud data Centers: a survey, *International Journal on Cloud Computing: Services and Architecture (IJCCSA)* ,Vol.3, No.4, August 2013, pp 13-26.

13. Thillaikarasi and S. Mary Saira Bhanu, A Survey of Secure Routing Protocols for Wireless Mesh Networks. *International Journal of Computer Applications* 97(6): July 2014 pp 1-8, Published by Foundation of Computer Science, New York, USA

14. T. Veni and S. Mary Saira Bhanu, MDedup++: Exploiting Temporal and Spatial Page Sharing Behaviors for Memory Deduplication Enhancement, *The Computer Journal, Oxford Press Advance Access published December 17, 2014.*

15. T. Veni and S. Mary Saira Bhanu, Auto-Scale: Automatic Scaling of Virtualized Resources using Neuro-Fuzzy Reinforcement Learning Approach accepted for publication in *International Journal of Big Data Intelligence , Vol. 3, No. 3, 2016, pp-145-153*

16. S. Jaya Nirmala , N. Tajunnisha and S. Mary Saira Bhanu, Service Provisioning of Flexible Advance Reservation Leases in IaaS Clouds, *International Journal of Big Data Intelligence, Vol. 3, No. 3, 2016, pp 154-162*

17. T. Raja Sree, S. Mary Saira Bhanu, HADM: detection of HTTP GET flooding attacks by using Analytical hierarchical process and Dempster-Shafer theory with MapReduce, *Security and Communication Networks*, *Wiley*, DOI: 10.1002/sec.1611.

18. S. Jaya Nirmala, S. Mary Saira Bhanu, Catfish-PSO based scheduling of scientific workflows in IaaS cloud. *Computing journal , Springer* 98(11): 1091-1109 (2016)

International Conferences

1. S. Mary Saira Bhanu , S. Radha and N. P. Gopalan , Remote Memory Management and Prefetching Techniques for Jobs in Grid, *SKG 2006 International Conference on Semantics Knowledge and Grid,* IEEE Computer Society.

2. S. Mary Saira Bhanu , Mohammad Imran Shaik and N. P. Gopalan , Distributed Grid Resource Discovery with Matchmakers, *SKG 2006 International Conference on Semantics Knowledge and Grid,* IEEE Computer Society.

3. S. Mary Saira Bhanu, Nayanish D. Hinge and N. P. Gopalan, Managing resources using economic models in Mobile Agent based grid, *CITICOMS 2007, International Conference on Modeling and Simulation*, Allied Publishers, Vol. II pp 1195-1199.

4. Masani Paresh P., S. Mary Saira Bhanu and N.P. Gopalan, Adaptive IOCM Load Balancing algorithm in Network of Heterogeneous Workstations, *SKG 2007 Third International conference on Semantics, Knowledge and Grid,* IEEE Computer Society, pp 654-675.

5. S. Mary Saira Bhanu, A. H. Bhagyshree and N. P. Gopalan , An Economy Based Replica Selection for a Mobile User in a Data Grid Environment, *ICDF-2008 (Aug 11- 13, 2008) International Conference on Digital Factory".*

6. S. Mary Saira Bhanu, S. Rajalakshmi and N. P. Gopalan , Scheduling Data Intensive Tasks Using Hybrid Meta Heuristics in Data Grid Environment, *ICDF-2008 (Aug 11- 13, 2008) International Conference on Digital Factory".*

7. S. Mary Saira Bhanu and Bindu K.R. , Group Aware Semantic Matchmaker For Grid Resource Discovery, *ARTCom 2009 International Conference on Advances in Recent Technologies in Communication and Computing*, IEEE Computer Society.

8. S. Mary Saira Bhanu and Maya Mohan, Performance Comparison of Multicast Routing Protocols for MANETS, *Business Administration and Information Processing - BAIP 2010(Mar 26 -27), LNCS* , Springer.

9. S. Mary Saira Bhanu and Ambili Chandran R.S, Context Aware Intrusion Detection in MANETs, *Business Administration and Information Processing - BAIP 2010(Mar 26 -27), LNCS* , Springer.

10. S. Stephen Vaithiya and S. Mary Saira Bhanu, Scheduling Tasks in Mobile Grid Environment using Mobility based Resource Prediction, *First International Conference on Parallel, Distributed and Grid Computing (PDGC-2010) (Oct 28 -30)*

11. S. Mary Saira Bhanu and Ambili Chandran R.S, Context-Aware Intrusion Detection and Tolerance in MANETs, *AET-ACS 2010, International Conference on Advances in Computer Science (Dec 21-22).*

12. S.Stephen Vaithiya and S. Mary Saira Bhanu, Mobility and Battery Power Prediction based Job Scheduling in Mobile Grid Environment, *PDCTA- 2011, LNCS* , Springer. pp 312-322.

13. S.K. Jayadivya and S. Mary Saira Bhanu, QoS based Scheduling of Workflows in Cloud Computing, *Proceedings of International Conference on Cloud Computing, ICCC 2012,* pp 47-53

14. Ahtesham Akhtar Patel, S. Jaya Nirmala and S. Mary Saira Bhanu, Security and Availability of Data in the Cloud, Advances in Computing and Information Technology , Springer-Verlag Berlin Heidelberg 2012 Volume 176, pp. 255-261

15. S. Mary Saira Bhanu, TulasiRam N, and Anusha K., Malware injection attack aware cloud, an impact analysis and a generic framework for their prevention, International Conference on Mathematics and Information Technology, WAIRCO, 2013 pp. 127-132.

16. S. Mary Saira Bhanu, TulasiRam N, and Anusha K, An analysis of malware injection attacks and their impact on cloud, International Conference on Information & Engineering Sciences, IMRF, 2013

17. S. Mary Saira Bhanu, Jaya Nirmala S and Tajunnisha N, Implementation of a dynamic load balancing mechanism for Cloud data centers, The International Conference on Computing, Communication and Advanced Network(ICCCAN), CIT, 2013 pp. 29-34.

18. S. Mary Saira Bhanu, Jaya Nirmala S and Shah Maulik, Scheduling of multiple workflows with Qos using genetic algorithm in a cloud, The International Conference on Computing, Communication and Advanced Network(ICCCAN) CIT, 2013, pp 61-65.

19. T. Veni and S. Mary Saira Bhanu, " A Survey on Dynamic Energy Management at Virtualization level in Cloud Data Centers", International Conference on Advances in Intelligent Systems and Computing, ICCSEA, SPPR, CSIA, WimoA – 2013, pp. 107–117, 2013.

20.   S. Jaya Nirmala, Shah Maulik and S. Mary Saira Bhanu, "SLA achievement by negotiation in a cloud", Compute '13,ACM , 2013

21.   S. Mary Saira Bhanu, S. Jaya Nirmala, N. Tajunnisha, Service Provisioning based on Advanced Reservation and Deadline Sensitive Leases in IaaS Cloud, IEEE International Conference on Cloud Computing in Emerging Markets (CCEM), 2013, pp 99-107

22.   S. Mary Saira Bhanu, K. Anusha, N. Tulasiram, Detection of Economic Denail of Sustainability using Time Spent on a web page in Cloud, IEEE International Conference on Cloud Computing in Emerging Markets (CCEM), 2013, pp 75-78.

23.   N. Tajunnisha, S. Jaya Nirmala, and S. Mary Saira Bhanu, Service Provisioning based on Advanced Reservation and Deadline Sensitive Leases In IaaS Cloud, *IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)* 2013 pp- 99-105

24.   S.Stephen Vaithiya and S. Mary Saira Bhanu , Ontology based Resource Discovery Mechanism for Mobile Grid Environment, *Second International Conference on Advanced Computing, Networking and Security,* 2013, IEEE Computer Society pp. 154-159

25. T. Veni and S. Mary Saira Bhanu, Enhancing Memory Deduplication Using Temporal Page Sharing Behaviors in Virtual Environments, *Advanced Computing, Networking and Informatics - Volume 2, Springer International Publishing Switzerland* 2014 pp 481-488.

26.   Kamlesh Kumar Hingwe and S. Mary Saira Bhanu, Two Layered Protection for Sensitive Data in Cloud, *ICACCI-2014* , IEEE, pp. 1265-1272

27. B. Mahesh Babu and S. Mary Saira Bhanu, Analyzing the Behavior to Protect Cloud from Malicious Insiders Using KeyStroke Dynamics, *CCEM 2014, IEEE p*p 17-24

28. Kamlesh Kumar Hingwe and S. Mary Saira Bhanu, Sensitive Data Protection of DBaaS using OPE and FPE, *EAIT 2014, Fourth International Conference on Emerging Applications of Information Technology, IEEE* pp 320-327

29. T. Rajasree and S. Mary Saira Bhanu, Identifying HTTP flood attack using Fuzzy logic and Self organizing Map, *Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics* , Volume 44 of the series Smart Innovation, Systems and Technologies, 2015, pp 259-269.

30. B. Mahesh Babu B and S. Mary Saira Bhanu, Prevention of Insider Attacks by Integrating Behavior Analysis with Risk based Access Control Model to Protect Cloud, *Eleventh International Conference on Communication Networks, ICCN 2015, Procedia Computer Science, Elsevier* Volume 54, pp 157–166

31. Kamlesh Kumar Hingwe and S. Mary Saira Bhanu , Hierarchical Role-Based Access Control with Homomorphic Encryption for Database as a Service, *International Conference on ICT for Sustainable Development (ICT4SD)*, Springer (AISC), 2015

32. T. Veni, S. Mary Saira Bhanu, Prediction Model for virtual machine power consumption in cloud environments, *International conference on recent trends in computer science and engineering, Procedia,* pp. 122-127, 2016.

33. T. Raja Sree, S. Mary Saira Bhanu, Preprocessing of log files using diffusion map for forensic examination, *International conference on Computer networks- Comnet 2016, Springer proceedings,* (in press)

National Conferences

1.   S.Selvakumar, S. Mary Saira Bhanu, and R. Jaganathan, Mirror Site Synchronization using IP Multicast, *Seminar for LAN of Next Millennium- SLAN 1998*, Dec 1998, pp 129-140.

2.   S.Selvakumar, S. Mary Saira Bhanu, and N.Venkatesh, Simulation of Multicast Archie Server Hierarchy, *Northern Regional Conference of CSI - Computing 1999*, Feb. 1999.

3.   S. Mary Saira Bhanu, S. Radha, and N. P. Gopalan, Adaptive Resource Allocation for jobs in Grid, *NITAC 2006 National Conference on Issues and Trends in Advanced Computing.*

4.   S. Mary Saira Bhanu, Mohammad Imran Shaik, and N. P. Gopalan, Decentralized Grid Resource Discovery with Matchmakers, *NITAC 2006 National Conference on Issues and Trends in Advanced Computing.*

5.   S. Mary Saira Bhanu, S. Rajalakshmi and N. P. Gopalan, GA based Approach for Scheduling in Data Grid Environment", *CODECLAVE 8.1(2008) National Conference on Software Engineering and Applications* pp 69-73.

6.   S. Mary Saira Bhanu , G. Selvakumar and N. P. Gopalan, Grid Resource Discovery using Randomized Algorithm, *CODECLAVE 8.1(2008) National Conference on Software Engineering and Applications* pp 74-78.

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