

**Name of the Faculty** : **Dr.A.Valarmathi**  
**Designation** : **Assistant Professor & Head**  
**E-mail Address** : **valar1030@yahoo.com**  
**Educational Qualifications** : **M.Sc ., MCA., M. Phil., Ph.D**

**Specialization** : **Mobile Computing, Wireless Networks,  
Network Security, Computer Applications in  
Engineering**

**Professional Experience** :

- Assistant Professor & Head (2014 – Present): Bharathidasan Institute of Technology, Anna University, Tiruchirappalli
- Assistant Professor (2009 –Present) : Bharathidasan Institute of Technology, Anna University, Tiruchirappalli

### **Membership in professional Societies**

ACM, IAENG, IACSIT

### **Awards and Honours**

- Nominated for Marquis *Who's Who* in 2011
- Best Paper Award in ICICI 2011

### **Research Guidance:**

**PhD** : **Research Supervisor ,Anna University, Chennai  
10(Research scholars): Ongoing**

### **Publications:**

**Citation indices of Journals:**

<a href="#">Citations</a>	22	22
<a href="#">h-index</a>	2	2
<a href="#">i10-index</a>	1	1

## **INTERNATIONAL JOURNALS**

1. Valarmathi A. and Chandrasekaran RM (2009), 'Effect of Mobility and Traffic flow on DSR protocol in a pre-defined Mobile Ad Hoc Network', International Journal of Computer Science and Network Security, ISSN : 1738-7906. Vol. 9 No. 4 pp. 10 - 15.
2. Valarmathi A., Chandrasekaran RM. and Gopalan N.P. (2009), 'Reliability of DSR Ad Hoc Routing Protocol in different mobility environment', International Journal of Emerging Technologies and Applications in Engineering, Technology and Sciences, ISSN: 0974-3596. Vol. 2 No. 2 pp. 550-554.
3. Valarmathi A. and Chandrasekaran RM. (2010), 'Performance Enhancement of DSR protocol with congestion avoidance mechanism for mobile ad hoc networks' Computer Modeling and New Technologies, ISSN:1407-5806 & ISSN:1407-5814(on-line). Vol. 14 No. 4 3 pp.
4. Valarmathi A. and Chandrasekaran RM. (2010), 'Congestion Aware and Adaptive Dynamic Source Routing Algorithm with Load-balancing in MANETs', International Journal of Computer Applications, ISSN (Online): 0975 – 8887. Vol. 8 No.5 pp. 1-4.9
5. Valarmathi A. and Chandrasekaran RM. (2011), 'Performance of improved dynamic source routing algorithm for military communication logistics', International Journal of Logistics Economics and Globalisation (IJLEG), ISSN (Online): 1741-5381 - ISSN (Print): 1741-5373 pp.
6. Valarmathi A. and Chandrasekaran RM. (2011), 'Multipath Routing Based Quality of Service Enhancement in Mobile AdHoc Networks', CiiT International Journal of Digital Signal Processing, ISSN 0974 – 9691. Vol. 3 No. 2 pp.77-80
7. M.Faleela Farzana Dr.A.Valarmathi(2015), 'A Survey of Challenges and Cross-Layer Security in Industrial Wireless Sensor Networks', International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.24.

## **International Conferences**

1. Valarmathi A. and Chandrasekaran RM. (2009), 'Behavioral analysis of reactive MANET routing protocol for streaming multimedia applications', International Conference on computer and Network Technology, ICCNT, IEEE, 23 to 25 July 2009, pp 129-132, Chennai, India.
2. Valarmathi A. and Chandrasekaran RM. (2009), 'Impact of workload and mobility on real-time multimedia streaming in MANET', ICAC09, 6-8 August 2009, Tiruchirappalli, India.
3. Valarmathi A. and Chandrasekaran RM. (2010), 'Congestion Management Routing protocol in Mobile Adhoc Networks', ICCCI '10, 22-23 July 2010, Madurai, India.
4. Valarmathi A. and Chandrasekaran RM. (2010), 'Enhancing Quality of Service in MANETs through Multipath Routing', ICICT-2010, 16-17 December 2010 Madurai, India. (Best paper Award)
5. S. Malini<sup>1</sup>, E. Kannan<sup>2</sup> and A. Valarmathi, Performance Optimization of Single-Path and Multi-Path AODV using Response Surface Method (RSM), Southeastcon, 2012 Proceedings of IEEE, Orlando, FL, 15-18 March 2012, **Page(s):** 1 – 4
6. P. Anandraj, Dr. A. Valarmathi (2013) Discovery of Resources In Wide Area Distributed Computational Grids By Hybrid Fuzzy Clustering, IEEE - International Conference on Research and

Development Prospects on Engineering and Technology (ICRDPET 2013) March 29, 30 - 2013 Vol.5, pno87-91, EGS Pillai college.

7. Mr.K. Jayachandran, Dr. A. Valarmathi (2013), Energy efficient multihop based data collection using rendezvous-based approach in wireless sensor network, International conference on advanced computing, machines and embedded technology (ICTACT-2013), JKKN college of engineering and technology, ISBN: 978-93-80757-74-

### **National Conferences:**

1. Hema jagadeeswari and A. Valarmathi, 'An adaptive government to public e-mission framework for national e-governance, EMCA'11, 1-2 April 2011, Tiruchirappalli.

2. R. Nithya and A. Valarmathi, 'Web security using honey token in enterprise network, EMCA'11, 1-2 April 2011, Tiruchirappalli.

3. S. Prathiba rajam and A. Valarmathi, 'Life saving engine using web service composition and flash', EMCA'11, 1-2 April 2011, Tiruchirappalli.

4. P. Premalatha and A. Valarmathi, 'One - stop search for customers using composite webservice', EMCA'11, 1-2 April 2011, Tiruchirappalli.

5. S. Srinivasan and A. Valarmathi, 'Multipath routing in mobile ad hoc networks:issues and challenges', EMCA'11, 1-2 April 2011, Tiruchirappalli.

6. M. Ramesh kannan and A. Valarmathi, 'An ontology based method for effect providing services ,step-macc ,11, pno.156, Sep'27 2011.

7. G. Shanthalakshmi, S.yogavignesh, A. Valarmathi, 'Enhancing reliability of peer to peer system in multicasting environment using semantic proxies', National conference on innovative trends in computing methodologies(NCITCM-2012) Feb,23,2012, pno 20.

8. D. Barkavi, kirthika balakrishnan, A. valarmathi, 'Secured m\_healthcare with android os in distributed cloud environment', National conference on innovative trends in computing methodologies (NCITCM-2012) Feb,23,2012, pno 25.

9. C.Rajapal, Dr.A. Valarmathi, Secure And Distributed P2P Reputation Management, national Conference On Innovations in Computing and Communication Technologies (NCICCT 2013), Kongunadu college of engineering and technology, thottiam,trichy,4-5 April 2013.

### **SEMINAR/CONFERENCE/WORKSHOP CONDUCTED**

☒ Web services (CSIR sponsored), 3.1.2013 - 4.1.2013.

☒ NCRS 2014 (DRDO, BARC-Mumbai sponsored), 13.2.2014 - 15.2.2014.

☒ Enhancing Employability of SC/ST students (TAHDCO sponsored), 2010.

☒ Emerging Trends in Engineering, Management and Computer Applications, 1.4.2011 - 2.4.2011.

☒ Web Design (SC/ST cell) , 7.9.2011.

**SEMINAR/CONFERENCE/WORKSHOP ATTENDED**

- Empowering teachers for enhancing SC/ST students Employability, 03.05.2010 - 07.05.2010.
- Pervasive Computing technologies, 21.2.2011 - 22.2.2011.
- Writing Effect Conference Papers, 18.02.2012 - 19.02.2012.
- Orientation Course, 22.11.2012 - 19.12.2012.
- Emerging Trends in Wireless Communication(FDP), 15.11.2013 - 28.11.2013