

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

Curriculum Vitae



Dr. R. Eswari, obtained B.E. in the field of Computer Science and Engineering from Bharathidasan University, Tiruchirappalli and M.E. in the field of Computer and Communication from Anna University, Chennai. She secured college first rank in her M.E. course. She pursued her Ph.D. degree from National Institute of Technology, Tiruchirappalli.

She is currently working as Assistant Professor in the Department of Computer Applications, National Institute of Technology, Tiruchirappalli. Her research interest includes Optimization Techniques, Multi-objective optimization, Cloud computing, Distributed scheduling and Wireless Sensor Networks. She is also a reviewer of national and international conferences. She is a life member of Computer Society of India, and a member of IACSIT.

1. Name: Dr.R.Eswari
2. Designation: Assistant Professor
3. Office Address: Department of Computer Applications
National Institute of Technology
Tiruchirappalli
4. Telephone: 0431-2503744
5. Email (Primary): eswari@nitt.edu
6. Field(s) of Specialization: Optimization Techniques, Multi-objective optimization, Cloud Computing, Distributed Scheduling, Wireless Sensor Networks

7. Employment Profile

| Job Title | Employer | From | To |
|---------------------|---|------------|------------|
| Assistant Professor | National Institute of Technology, Tiruchirappalli | 22.07.2008 | Till date |
| Lecturer | P.R.Engineering College | 17.01.2006 | 21.07.2008 |

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

| Examination | Board / University | Year | Division/ Grade | Subjects |
|-------------|---|------|--|---|
| Ph.D. | National Institute of Technology, Tiruchirappalli | 2014 | - | Scheduling algorithms for distributed systems |
| M.E. | Anna University, Chennai | 2006 | First class with distinction (College first rank) | Computer and Communication |
| B.E. | Bharathidasan University, Tiruchirappalli | 2004 | First class with distinction | Computer Science and Engineering |
| H.S.C | State Board | 2000 | First Class | Maths, Physics, Chemistry, Biology |
| S.S.L.C | State Board | 1998 | First Class | Maths, Science, Language |

9. Academic/Administrative Responsibilities within the University

| Position | Faculty/Department/ Centre/Institution | From | To |
|--|---|------------------------|-----------|
| Member in Convocation committee | Institute | 2009, 2010, 2014, 2016 | |
| Stock Verification Officer | Institute | 2013 | 2015 |
| Department library in-charge | Department | 2009 | Till date |
| Staff Advisor for Softrec (Alumni Association) | Department | 2015 | Till date |
| Chairperson - Performance Analysis Committee | Department | 2009, 2011, 2013-2015 | |
| Member in admission committee (MCA and M.Sc. computer science) | Department | 2009 | 2016 |
| Initiator – PG lab equipment purchase | Department | 2013 | |

10. Details of Academic Work

(i) Curriculum Development

New exercises and projects are given in each lab included in every semester

(ii) Courses taught at Postgraduate and Undergraduate levels

Undergraduate:

- Data Structures and Algorithms
- Basics of Programming
- Advanced Programming languages, C++

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Postgraduate:

- Database Management Systems
- Design and Analysis of Algorithms
- Computer Organization and Architecture
- Cloud Computing
- Management Information Systems

(iii) Projects guided at Postgraduate level: 8 per year for MCA and M.Sc. final year

(iv) Other contribution(s)

- Acted as judge for paper presentation for Version (MCA students symposium), ACM chapter (Inter college students symposium), Infotrec, Acumen
- Acted as question paper setter for UG/PG Examinations for Anna University, Chennai, Coimbatore Institute of Technology, Coimbatore, and other universities.
- Staff Advisor for MCA and M.Sc.(CS) Girls

11. Number of PhDs guiding: Currently guiding 1 full time and 3 Part time Ph.D. scholars

12. 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 |
|----------------------|--|---|---|---------------------------------------|------------------|
| Oct. 19-20, 2012 | Advances in Recent Technologies in Communication & Computing | International Conference | Presenter | ACEEE | Bangalore |
| Oct. 15-16, 2010 | Advances in Recent Technologies in Communication & Computing | International Conference | Presenter | ACEEE | Kottayam, Kerala |
| Dec. 8-10, 2008 | Supply Chain Management and Information Systems | International Conference | Presenter | NITT | Trichy |
| Feb. 24-25, 2006 | Signals, Systems and Security | National Conference | Presenter | Bannari Amman Institute of Technology | Erode |
| Mar. 31-Apr. 1, 2017 | Frontiers in Engineering, Applied Sciences and Technology | International Conference | Co-chair | NITT | Trichy |

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|---|--|------------------------------------|--------------------------------|---|------------|
| 19-21 Dec. 2016 | Computing Analytics and Security Trends | IEEE International Conference | Reviewer | College of Engineering | Pune |
| 18 th and 19 th Mar. 2016 | Frontiers in Applied Sciences and Computer Technology | National Conference | Reviewer and Chaired a Session | NITT | Trichy |
| 6 th and 7 th Mar. 2015 | Frontiers in Applied Sciences and Computer Technology | National Conference | Reviewer and Chaired a Session | NITT | Trichy |
| 20 th and 21 th Mar. 2015 | Big Data and Cloud Computing | National Conference | Reviewer | NITT | Trichy |
| 8-10 Sep. 2016 | Research in Engineering, Computers and Technology | International Conference | Reviewer and Chaired a Session | NITT | Trichy |
| 28 th & 29 th Apr. 2015 | Conclave on Academic Reforms | Workshop | Participant | NITT | Trichy |
| 9 th & 10 th May, 2013 | Perspectives on Curriculum | Workshop | Participant | NITT | Trichy |
| 3-6 May 2012 | Distributed Systems – Research Challenges | Workshop | Participant | PSG College of Technology | Coimbatore |
| 12 th Dec. 2008 | Web Services- Architectures and Applications | Workshop | Participant | NITT | Trichy |
| 7-9 Nov. 2008 | Digital Image and Video Processing | Workshop | Participant | NITT | Trichy |
| 26 th and 27 th Sep. 2008 | Computational Models, Tools and Techniques in Bioinformatics | Workshop | Participant | NITT | Trichy |
| 8-10 Aug. 2008 | Algorithms | Workshop | Participant | NITT | Trichy |
| April 27 to May 30, 2015 | Introduction to Design of Algorithms | ISTE Short Term Training Programme | Participant | Indian Institute of Technology, Kharagpur | NITT |
| 29 th Jan. 2015 | TCS-iON Learning Exchange | Train-the-Trainer Programme | Participant | NITT | Trichy |
| 24-25 Aug. | Engineering Optimization and | Short Term Course | Participant | NITT | Trichy |

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|---|--|-------------------------------|-------------|---|----------------------------------|
| 2012 | Approaches | | | | |
| 28 th July 2012 | Application of Biologically Inspired Algorithms for Power System and Power Electronics Engineering | Short Term Course | Participant | NITT | Trichy |
| 21 st June to 3 rd July 2010 | Recent Researches on Fuzzy Logic and Neural Networks | Staff Development Programme | Participant | NITT | Trichy |
| 7-11 June, 2010 | Java and Microsoft Technologies | Faculty Development Programme | Participant | Cognizant Technology Solutions | Chennai |
| 25 th May to 6 th June 2009 | Data Warehousing and Data Mining | Staff Development Programme | Participant | NITT | Trichy |
| 29 th May to 02 nd July, 2006 | Instructional Design & Delivery | Short Term Course | Participant | National Institute of Technical Teachers Training and Research, Chennai | P.R.Engineering College, Tanjore |

13. 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 |
|----------------------------|---|----------------------------|-----------|---|
| Database Design and Tuning | Local | 20 th Mar. 2015 | Organizer | National Institute of Technology, Tiruchirappalli |

14. Invited Talks delivered

| Topic | Date | Inviting Organization |
|---|--|---|
| Techniques to Solve Optimization Problems | 10 th and 11 th Nov. 2014 | National Institute of Technology, Tiruchirappalli |
| Hands-on training on SQL fundamentals | 17 th Nov. – 19 th Dec. 2014 | BHEL, Trichy |

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15. Membership of Learned Societies

| Type of Membership (Ordinary Member/ Honorary Member / Life Member) | Organization | Membership No. with date |
|---|---------------------------|-----------------------------|
| Life Member | Computer Society of India | 01128135, 2011 |

16. Publications

(A) Refereed Research Journals:

| Author(s) | Title of Paper | Journal | Volume (No.) | Page numbers | Year | Impact Factor of the Journal (Optional) |
|---|---|---|-----------------|-----------------|------|--|
| R. Eswari and S. Nickolas | Modified Multi-Objective Firefly Algorithm for Task Scheduling Problem on Heterogeneous Systems | International Journal of Bio-Inspired Computation, Inderscience | In Print | | | 1.39 |
| R. Eswari and S. Nickolas | Effective Task Scheduling for Heterogeneous Distributed Systems using Firefly Algorithm | International Journal of Computational Science and Engineering, Inderscience | Vol.11, No.2 | 132-142 | 2015 | |
| R. Eswari, S. Nickolas and Michael Arock | A Path Priority-based Task Scheduling Algorithm for Heterogeneous Distributed Systems | International Journal of Communication Networks and Distributed Systems, Inderscience | Vol.12, No.2 | 183-201 | 2014 | |
| R. Eswari and S. Nickolas | A Level-wise Priority based Task Scheduling for Heterogeneous Systems | International Journal of Information and Education Technology | Vol.1, No.5 | 371-376 | 2011 | |
| R. Eswari, T.S.Murunya and S. Grace Mary | Distributed Process Management Protocol | Journal of Emerging Technologies | Vol.3, No.2 | 7-14 | 2008 | |

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(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Abstract/ Paper | Title of the Proceedings | Page no. | Conference Theme | Venue | Year |
|--|---|---|-------------|---|------------------|------|
| R.Eswari and S.Nickolas | Solving Multi-Objective Task Scheduling for Heterogeneous Distributed Systems using Firefly Algorithm | 4 th International Conference on Advances in Recent Technologies in Communication & Computing | 57-60 | Advances in Recent Technologies in Communication & Computing | Bangalore, India | 2012 |
| R. Eswari and S. Nickolas | Firefly Algorithm for Static Task Scheduling Problem | 3 rd International Conference on Soft Computing, Intelligent System and Information Technology | 32-37 | Soft Computing, Intelligent System and Information Technology | Bali, Indonesia | 2012 |
| R. Eswari and S. Nickolas | Expected Completion Time based Scheduling Algorithm for Heterogeneous Processors | International Conference on Information Communication and Management | 72-77 | Information Communication and Management | Singapore | 2011 |
| R. Eswari and S. Nickolas | Path-based Heuristic Task Scheduling Algorithm for Heterogeneous Distributed Computing Systems | 2 nd International Conference on Advances in Recent Technologies in Communication & Computing (IEEE) | 30-34 | Advances in Recent Technologies in Communication & Computing | Kottayam, Kerala | 2010 |
| R. Eswari, S. Grace Mary and T. S. Murunya | Applications of Workflow and Information Systems in Supply Chain Management | 6 th International Conference on Supply Chain Management and Information Systems | 238-246 | Supply Chain Management and Information Systems | NIT, Trichy | 2008 |
| R. Eswari | A User Level Implementation of Distributed Process Management Protocol | 2 nd National Conference on Signals, Systems and Security | 584-589 | Signals, Systems and Security | Erode, Tamilnadu | 2006 |