Dr. SELVARAJ SARAVANA KUMAR. B.Tech (IT), M.E. (CSE), Ph.D (CSE)

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Career Objective:

To seek a challenging career built upon an unflinching attitude to learn. To work in a co-operative environment with opportunities to enrich my knowledge and at the same time ensuring satisfied job deliverance.

Summary:

- **10 .6 years** of teaching experience in the field of Computer Science in various Engineering colleges and University.
- Excellent programming skills in **C, C++ & Java.**
- Wide knowledge in **Database designing**.
- Expert in the area of **Software Testing**.

Professional Experience:

- Working as an **Professor** in Computer Science Engineering department at '**Panimalar Institute of Technology',** Chennai from June 2012 – till date

- Worked as an **Associate Professor** in Computer Science Engineering department at '**Panimalar Institute of Technology',** Chennai from June 2011 – May 2012.

- Worked as an **Assistant Professor (Senior)** in school of Computer Science Engineering at '**Vellore Institute of Technology',** (VIT University), Vellore from June 2009 –May 2011.

- Worked as a **Senior Lecturer** in Computer Science Engineering department at **'Velammal Engineering College',** Chennai from Aug' 2008 - May'2009.

- Worked as an **Assistant Professor** in Information Technology & Engineering at '**Jaya Engineering College',** Chennai from Oct' 2007 - Aug'2008.

- Worked as a **Senior Lecturer** in Computer Science Engineering at '**S.A. Engineering College',** Chennai from June 2006 - Oct 2007.

- Worked as a **Lecturer** in Computer Science Engineering at '**S.A. Engineering College,** Chennai from June 2003 - May 2006.

Education:

- **Doctorate** in Faculty of Computer Science and Engineering from '**BHARATH UNIVERSITY**", Chennai, India (2008-2011).

- **M.E** specialized in Computer Science with first class (2002-2004) graduated from '**Bharath Engineering College'**, affiliated to **Anna University**.

- **B.Tech** (Information Technology) with first class (1998-2002) graduated from '**Adhiparasakthi Engineering College**', affiliated to **Madras University**.

- **H.S.C** with first class in March 1998 at '**Velammal Matriculation school**', Chennai.

- **S.S.L.C** with first class in March 1996 at '**Velammal Matriculation school**', Chennai.

Publications & Conferences:

Research Publications

- **"Investigation of Induction Generator for Variable Load Conditions",** authored by Dr.S.Saravanakumar. TJPRC's Review Board **-** International Journal of Electrical and Electronics Engineering Research (IJEEER) ; ISSN(Print):2250-155X ; ISSN(Online): 2278–943X ; **Impact Factor(JCC): 3.7567** - Accepted.

- **"Simulation and Hardware model of Induction Generator using PWM",** authored by Dr.S.Saravanakumar. International Journals of Advanced Information Science and Technology IJAIST, November Issue 2012 P.P 14-19, *http://ijaist.com/index.php/2012-09-20-17-45-51/november-issue#*, *Impact Factor* **0.135.**

- **"Energy loss compensation of synchronous machine using UPFC systems",** authored by Dr.S.Saravanakumar. International Journals of Academia and Industrial Research", JAIR, VOL.1 Issue 7. Decmber 2012.pp384-387, http://jairjp.com/DECEMBER/06%20SANKAR.pdf

- **"Simulation of TCSC and UPFC System Using SPICE",** authored by Dr.S.Saravanakumar. **International Journal of Electronics Communication and Microelectronics Designing** IJECMD, VOL.1 Issue1,August2012.

  http://www.ijecmd.org/index.php?option=com_jresearch&view=publicationslist&Itemid=162

- **"A New Methodology for Search Engine Optimization without getting Sandboxed"** authored by Dr.S.Saravanakumar. IJARCCE International Journal of Advanced Research in Computer and communication Engineering , VOL.1 Issue 7, September 2012.
  http://www.ijarcce.com/uploadseptember/ANewMethodologyforSearchEngineOptimizationwithoutgettingSandboxed.pdf

- **"Network Weight Updating Method For Intrusion Detection Using Artificial Neural Networks"** authored by Dr.S.Saravanakumar, Dr.A.Rengarajan and A.jeerinsimla. IJARCCE International Journal of Advanced Research in Computer and communication Engineering , VOL.1 Issue 5, July 2012.

http://www.ijarcce.com/upload/july/4-NETWORK%20WEIGHT%20UPDATING.pdf

- **"Communication With Reality Data Information Extraction System With Voice Interface"** authored by Dr.S.Saravanakumar, Dr.R.Sugumar and Elango. IJARCCE International Journal of Advanced Research in Computer and communication Engineering , VOL.1 Issue 5, July 2012.

  http://www.ijarcce.com/upload/july/10_Communication%20with%20Reality.pdf

- **"Determining the Existence of Quantitative Association Rule Hiding in Privacy Preserving Data Mining"** authored by Dr.Selvaraj Saravanakumar, Dr. Sugumar .R and Dr. Rengarajan.A. IJARCCE International Journal of Advanced Research in Computer and communication Engineering , VOL.1 Issue 2, April 2012.

  http://www.ijarcce.com/upload/april/Determining%20the%20Existence%20of%20Quantitative%20Association%20Rules%20in%20PPDM.pdf

- **"Optimization of Blind Spoofing using Discrete Model"** authored by Dr.Selvaraj Saravanakumar, Dr. Sugumar .R and Dr. Rengarajan.A. IJARCCE International Journal of Advanced Research in Computer and communication Engineering , VOL.1 Issue 2, April 2012.

  http://www.ijarcce.com/upload/april/Optimization%20Of%20Blind%20Spoofing%20Using%20Discrete%20Model.pdf

- **"Analysis of ANN-based Echo State Network Intrusion Detection in Computer Networks"**, authored by Dr.S.Saravanakumar, Dr.C. Jayakumar, and Ms. R.Dharani,IJCST International Journal of Computer science and Telecommunications , VOL.3 Issue 4, April 2012.

  http://www.ijcst.org/Volume3/Issue4/p2_3_4.pdf

- **"Design and Implementation of Echo State Network for Intrusion Detection" ,** authored by **S.Saravanakumar**, Dr.C. Jayakumar, and Dr.S.Purushothamam, Journal of Computing, VOL.3 No.9, September 2011.

  http://www.journalofcomputing.org/volume-3-issue-9-september-2011

- **"Development and Implementation of Neural Networks for Intrusion Detection in computer Network",** authored by **S.Saravanakumar**, Dr.Umamaheswari, and D.Jayalakshmi**,** IJCSNS International Journal of Computer Science and Network Security, VOL.10 No.7, July 2010.

  http://paper.ijcsns.org/07_book/201007/20100734.pdf

- **"Implementation of Neural Networks for Intrusion Detection in Computer Network",** authored by **S.Saravanakumar**, Dr.Umamaheswari, and Dr.V.Khanaa, Indian Research Review Journals- National Journal , Oct' 2010.

- **"Development of Artificial Neural Networks for Intrusion Detection",** authored by **S.Saravanakumar**, Dr.Umamaheswari, and Dr.S.Purushothamam, to Noble Journals- International Journal of Database Engineering, June 2010.

International Conferences

"Simulation and Design of Closed Loop Controlled PFC Boost Converter with EMI Filter" 7th International Conference on Intelligent Systems and Control ISCO-2013, School of Electrical and Electronics Engineering, Karpagam College of Engineering, Coimbatore-641 032, (IEEE) ISCO Jan 4th and 5th –*Accepted*

"Simulation of Open and Closed Loop Controlled UPFC Systems" International Conference on Emerging Trends in Electrical Engineering and Energy Management, ICETEEEM-2012, (IEEE) organized by Aarupadai Veedu Institute of Technology Vinayaka Nagar, Old Mahabalipuram Road, Paiyanoor, Chennai-603104. Dec 13, 14, 15.-*Accepted*

"Simulation and Performance of Matrix Converter with Faulty Conditions" organized by International Conference on Power and Energy Systems, (ICPES- '12) Date: 13-15 December 2012, Kalasalingam University, Anand Nagar, Krishnankoil, 626190, Tamil Nadu 626126- *Accepted.*

"Analysis and Design controlling parameters of UPFC System for Power Flow Management" organized by International Conference on Power and Energy Systems, (ICPES- '12) Date: 13-15 December 2012, Kalasalingam University, Anand Nagar, Krishnankoil, 626190, Tamil Nadu 626126- *Accepted.*

Dr.S.Saravanakumar, presented paper titled "Secured Text Message Transmission with implementation of concatenated CFB cryptographic algorithm" Conducted by Computer Science Conference proceedings , AIRCC. CS &IT – CSCP – 2012. DOI: 10.5121/CSIT. 2012.2445, Oct 27th 2012, pg 463-474.

Dr.S.Saravanakumar. presented paper titled **"Simulation and Performance of Open and Closed Loop Controlled Matrix Converter"** Conducted by 5th International Conference on "Science, Engineering and Technology (SET)" November 8-9, 2012, VIT UNIVERSITY Vellore -632014, Tamil Nadu, India *.pg25-29.*

Dr.S.Saravanakumar. presented paper titled **"An Emerging Methodologies for Detection and Predictive Analytics using Living Analytics to detect emerging trends in cloud computing"** in the first International Conference on EGovernance & Cloud Computing Services(EGov '12), has been published in the international proceeding of Department of Computer Applications Dr. MGR Educational and Educational Research Institute University, Chennai.*, October 17-18, 2012. (ISBN: 978-81-910827-9-1)*

Dr.S.Saravanakumar. presented paper titled **"Speech Recognition Based Automated Storage Using Voice Over Internet Protocol"** in the 4th International Conference on Science, Engineering and Technology (SET), has been published in the international proceeding of computer and information technology at VIT University, Vellore. 3rd & 4th May, 2012. Paper ID: 04SET1178.

Dr.S.Saravanakumar. presented paper titled **"Development of Web OS for the Improvement and Performance of Mobile Environment using both Cloud and Grid Computing"** in the International Conference on Computing and Control Engineering (ICCCE 2012), has been published by Coimbatore Institute of Information Technology, 12 & 13 April, 2012.
http://www.iccce.co.in/Papers/ICCCECS259.pdf

S.Saravanakumar. Presented paper titled **"Algorithm based on artificial neural networks for intrusion detection in heavy traffic computer networks"** in the International Conference On Advancement in Information Technology & Business Management and Governance has been published in the international proceeding of computer and information technology. December 2011. Vol .20.
http://www.ipcsit.com/vol20/2-ICAIT2011-A007.pdf

S.Saravanakumar. Presented paper at **International conference** on Advances in Computer Science - ACEEE'2011, titled '**Designing Implementation Algorithm for Intrusion Detection in Computer Network'** at Noida, INDIA. December 2011. Vol.2. pp161-165

S.Saravanakumar. Presented paper at **International conference** on Computer Engineering and Technology –**ICCET'10**, titled '**location Discovery Management and Inter-Networking System**' at Jodhpur Institute of Engineering & Technology, Jodhpur(Raj.)INDIA. NOV'10.

S.Saravanakumar. Presented paper at **International conference** on Computer Engineering and Technology –**ICCET'10**, titled '**Query Indexing On Spatial Data in Peer to Peer System**' at Jodhpur Institute of Engineering & Technology, Jodhpur(Raj.)INDIA. NOV'10.

S.Saravanakumar, Dr.Umamaheswari and Dr.S.Purushothaman (2009), 'Application of Artificial Neural Networks for Intrusion Detection', Proceedings of International Conference on Intelligent Science and Technology, pp.78-80.

S.Saravanakumar, Dr.Umamaheswari and Dr.S.Purushothaman (2009), 'Intelligent Machine Vision System on Tool Wear Monitoring', Proceedings of International Conference on Intelligent Science and Technology, pp.43-47.

National Conferences

Presented paper at first national conference on energy audit & power quality in "**Power System Operation Using Disseminated Unit System**", at Dr.M.G.R. Education and research institute University Chennai, October 5th and 6th . ISBN : 978-81-925141-1-6. In association with "The institution of engineering and technology-UK.

Presented paper at first national conference on energy audit & power quality in "**Simulation and Power Quality Management of UPFC System**", at Dr.M.G.R. Education and research institute University Chennai, October 5th and 6th . ISBN : 978-81-925141-1-6. In association with "The institution of engineering and technology-UK.

Presented paper at second international conference on emerging trends in informative computing applications iway'12 in," **Best searching algorithm to find a shortest distance for peer to peer network**", at veltech engineering college, 22nd august 2012.

Presented paper at National Conference on Emerging Trends in Computation and Information Technology (NCETCIT 2012) in, **'Data Information Extraction System with Voice Interface'**, *at KCG Engineering College, 30th March 2012.page no 34-42*

Presented paper at National Conference on Emerging Trends in Computation and Information Technology (NCETCIT 2012) in, **'Design of Artificial Neural Networks for Intrusion Detection in Computer Network'**, *at KCG Engineering College, 30th March 2012.page no 5-10.*

Presented paper at Second Indian **conference on Computational Intelligence ICCI'2012** in, 'Development of Web OS for the Improvement and Performance of Mobile Environment using both Cloud and Grid Computing*', at DMI Engineering College, March'12*

Presented paper at **National conference on Recent Trends in Computer Application & Technology – NCRTCAT2011** in, *'Inter-Network working system to find a shortest distance in mobile communication', at Jaya Engineering College, Sep 2011.*

Presented paper at **National level conference** in, *'Intrusion detection in computer network ', at Velammal Engineering College, March 2010.*

Presented paper at **National level conference** in, *'Development and implementation of neural networks in intrusion detection in computer network ', at S.A. Engineering college, Feb. 2010.*

Presented paper at **National level conference** in, *'Intelligent Machine Vision System on Tool Wear Monitoring',* at Bharath University, March 2009.

Presented a paper at **National level conference** on **Enhancing Quality of Service VOIP**, at Jaya Engineering College, Fourth Generation, April 2008.

Training Programs, Workshops & FDP:

- One day Work shop in **'Matlab ,** at Panimalar Institute of Technology, Chennai , 23 rd November 2012.

- One day Workshop in "**Research issues in IT security and multimedia**", at Kodaikanal Institute of Technology , Kodaikanal, 19th October 2012.

- One day Workshop in '**Editing Wikipedia Pages',** at MIT Chrompet Chennai, March 2012.

- One day Work shop in **'Artificial Intelligence',** at Sun Engineering College, August 2011.

- Two days Faculty Development Program in **'Information on Demand'** organized by IBM India, at VIT University, Sep'10.

- Two days Work shop in **'Operating System'**, at VIT University, March 2010.

- Organized two days workshop in **'Software Engineering'** at VIT University, March 2010.

- Ten days **Faculty Development Program** in '*Software Engineering'* at VIT University, July 2009.

- Two days workshop in '**Research Technologies'** at Velammal Engineering College, Feb'09.

- Work shop in **'Soft Computing'**, at Jaya Engineering College, April 2008.

- Paper presentation in '**ERP',** at Intra College, convention, 2002.

- Paper presentation in '**Network Security through firewalls'**, at Eswari Engineering College, convention, 2001.

Certificate Courses:

- Certification in **'Manual testing concepts'** at Infics Solution and Navo Technologies'.

- Certification in **'AS400'** at Beacon software system ltd, Chennai.

- Certification in **'Mainframe'** at Samjass Technologies.

Technical Skills:

Operating Systems	OS400, MS-DOS, Windows 95/98/NT/2000
Languages	RPG/400, CL/400, C, C++, Java.
Database	DB2/400, PL/SQL
Methodologies	SDLC
Testing Tools	Bug Tracker
Configuration Tool	Visual Source Safe 6.0
Internet Technologies	HTML
Testing Tools	Manual testing

Books Published:

- Mathematical Foundation of Computer Science for M.E.
- Internet Application tools for M.C.A.
- Internet Application and Programming language for M.E.
- Ecommerce.
- OOAD.

Personal Details:

Father's Name   : M.Selvaraj

Sex   : Male.

Date of Birth   : July 21, 1981

Nationality   : Indian.