

National Institute of Technology, Tiruchirappalli:

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Brief Profile



S. Selvakumar obtained his degree in Electronics and Communication Engineering with Distinction in 1983 from Madurai Kamaraj University, Madurai and Postgraduate degree in Computer Science and Engineering in 1987 from Regional Engineering College (REC), Tiruchirappalli. He was awarded Ph.D. degree by the Indian Institute of Technology Madras, Chennai in 1999. Since 1983, he has been in the teaching profession and currently he is a Professor in the Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India. He has 33 years of teaching experience and 23 years of research experience. His research interests include group communication in high-speed networks, routing, multimedia communication, scheduling for QoS guarantee, mobile networks, network security, wireless sensor networks, and network computing.

He completed three projects worth Rs.121/- lakhs, including Rs.100/- lakhs project on Collaborative Directed Basic Research in Smart and Secure Environment (CDBR-SSE) sponsored by National Technical Research Organization (NTRO), New Delhi. His contributions to the CDBR-SSE Project are: Unified Network Threat Management Solutions including RBPBoost - a DDoS attack detection using ensemble of classifiers, DEEPA – a Deep Packet Analysis cum Threshold Based DNS Monitoring Tool, H2M2 – a Hybrid Hidden Markov Model to detect host intrusions, and LISISAP – a link level signature based secure anonymous protocol for prevention of traffic analysis attacks. He has also contributed the technical solutions such as DataCrypt – to secure the data in flash drives, and CRAYSE – a Search while Crawl technique. He has conducted 3 workshops and 3 seminars related to Network Security in association with McAfee, Bangalore to have academia-industry interaction. During his tenure as Convener, Computer Support Group (CSG), he established 10 Gbps high speed campus network connectivity.

He has to his credit of publishing 69 research papers including 31 in International and National Journals, and 38 in International and National Conferences. Five Ph.D. degrees have been awarded under his guidance. Five M.S. (by Research) degrees have been awarded under his guidance. He is currently guiding four Doctoral Research Scholars and one M.S. (by Research) Scholar. He has visited University of Alcala, Madrid, Spain, Iowa State University, Ames, USA, City University of New York, USA, Queensland University of Technology, Brisbane, Australia, University of Vienna, Austria, Singapore, Canada, and Switzerland. He is also a reviewer in International Journal on Adhoc Networks, Elsevier Publications, U.K. He is currently the Dean of Indian Institute of Information Technology (Srirangam), Tiruchirappalli functioning in the NIT Campus, Tiruchirappalli.

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Curriculum Vitae

1. Name: Selvakumar Subramanian
2. Designation: Professor
3. Office Address: Department of CSE, National Institute of Technology, Tiruchirappalli,
620 015
4. Telephone (Direct) (Optional) +91-431-2500237
Extn (Optional): 3203, 3201, 3239
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5. Email (Primary): ssk@nitt.edu
Email (Secondary): sselva_barathi@yahoo.com
6. Field(s) of Specialization: Computer Networks, Group communication in High-Speed Networks, Routing, Multimedia Communication, Scheduling for QoS guarantee, Mobile Networks, Network Computing, Distributed Systems, Collaborative Computing, Wireless Sensor Networks, and Network Security
7. Employment Profile

Job Title	Employer	From	To
Professor	National Institute of Technology Tiruchirappalli -620015	26-08-2000	Till date
Assistant Professor	National Institute of Technology Tiruchirappalli -620015	26-08-1992	25-08-2000
Lecturer	Madurai Kamaraj University, Madurai-15	01-07-1987	25-08-1992
Research Assistant	Regional Engineering College, Tiruchirappalli -620015	18-12-1984	30-06-1987
Lecturer	Thiagarajar College of Engineering, Madurai-15	03-09-1984	15-12-1984
Instructor	K.L.N. Memorial Polytechnic, Madurai	18-06-1984	01-09-1984
Instructor	Periyar Centenary Girls Polytechnic, Vallam, Thanjavur	16-10-1983	16-06-1984

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Indian Institute of Technology Madras, Chennai.	1994- 1998	Not Applicable	Computer Networks
M.E.	Regional Engineering College, Tiruchirappalli -620015	1985- 1987	First class	Computer Science and Engineering
B.E.	Madurai Kamaraj University, Madurai-15	1978- 1983	First class with Distinction	Electronics and Communication Engineering
Pre University Course	Madurai Kamaraj University, Madurai-15	1977 - 1978	First class	Maths, Physics, Chemistry
11 th Standard	Tamil Nadu State Board	1976- 1977	First class	Algebra Geometry

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Dean (IIIT)	Indian Institute of Information Technology, Tiruchirappalli -620015	22-04-2016	Till Date
Dean (R &C)	National Institute of Technology Tiruchirappalli -620015	18-09-2015	21-04-2016
HoD, CSE Dept.	National Institute of Technology Tiruchirappalli -620015	14-03-2013	17-09-2015
Convener, Computer Centre Working Committee (CCWC)	National Institute of Technology Tiruchirappalli -620015	Jan. 2006	June 2009
Wardenship	Regional Engineering College, Tiruchirappalli -620015	1998	2000

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member Board of Studies	NIT Karaikal, Puducherry	2015	Till Date
Member Board of Studies	SASTRA University, Thanjavur	2014	Till Date

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Member Doctoral Committee	VIT, Vellore	2014	Till Date
Member Doctoral Committee	VIT, Chennai	2014	Till Date
Resource Person	Thiagarajar College of Engineering, Madurai	Oct. 16, 2014	Oct. 18, 2014
Conference Session Chair	R.M.K. Engineering College, Kavaraipettai, Chennai	Mar. 01, 2012	Mar. 02, 2012
Member All India Board of IT Education	AICTE	2009	2015
Member Doctoral Committee	Anna University, Chennai	2000	Till Date
Member AICTE NBA Inspection Committee	As assigned by Office of NBA, New Delhi	2000	Till Date
Member Senior Staff Selection Committee	Various Institutions	2000	Till Date
Reviewer	International Journal on Adhoc Networks, Elsevier Publications, United Kingdom	2000	Till Date

11. Awards, Associateships etc.: NIL

12. Fellowships: NIL

13. Details of Academic Work

(i) Curriculum Development

Developed ten new courses for M.E. (CSE) and B.E. (CSE) students of R.E.C. Trichy.

(ii) Courses taught at Postgraduate and Undergraduate levels

Computer Networks, High Speed Networks, Distributed Computing, Network Security, Basics of Programming, Computer Organization, Operating Systems, Computer Architecture, Microprocessor Systems, Network Principles and Protocols, Advanced Network Principles and Protocols, Advanced Computer Organization

(iii) Projects guided at Postgraduate level

50 Projects

(iv) Other contribution(s)

- Established Parallel and Distributed Processing Lab
- Established Network Engineering Lab

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- Established Collaborative Directed Basic Research in Smart and Secure Environment (CDBR-SSE) project Lab
- Established high speed campus wide backbone network of 10 Gigabits per second

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Collaborative Directed Basic Research in Smart and Secure Environment (CDBR-SSE) project	NTRON, New Delhi	2007	2012	Completed
Network Engineering Lab	MHRD, New Delhi	2001	2003	Completed
Parallel and Distributed Processing Lab	MHRD, New Delhi	1994	1996	Completed

15. Number of PhDs guided: 05

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
R. Leela Velusamy	Study on Quality-of-Service (QoS) Routing Techniques	Supervisor	2010
P. Arun Raj Kumar	Detection and Identification of DDoS Attacks using Ensemble of Neural Classifiers	Supervisor	2013
R. Alageswaran	GELSenVAC: A Novel Sensor Network Framework for WSN Simulation	Supervisor	2013
Sangeeta Bhattacharya	FESADS: An Efficient Offline Feature Selector and Online Network Attack Detection System	Supervisor	2015
A.R. Vasudevan	Dataset Approach towards building a Network Intrusion Detection System	Supervisor	2015

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16. Number of M.S. (By Research) guided: 05

Name of the M.S. Scholar	Title of Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
B. Radha	DEEPA: Deep Packet Analysis Cum Threshold Based DNS Monitoring Tool	Supervisor	2012
Kritika Govind	Auto PPKF: Auto-Pattern Programmable Kernel Filter for Suppression of Bot Generated Traffic	Supervisor	2013
Pathak Pritesh Rajesh	Blind Image Steganalysis of JPEG Images using Feature Extraction through the Process of Dilation	Supervisor	2014
Suriender Singh	Detection of Distributed Denial of Service through Ensemble Solution and Dimensionality Reduction	Supervisor	2015
Satyajit Jayasingrao Yadav	Detection of Application Layer DDoS Attack by Modeling User Behavior and Deep Learning	Supervisor	2016

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

About 100 Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools, etc., as Resource Person.

18. 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
First CDBR-SSE workshop	National	23 th Mar. 2007 to 24 th Mar.2007	Chairman	National Institute of Technology Tiruchirappalli - 620015
First Security Day workshop	National	20 th Oct. 2008	Chairman	National Institute of Technology Tiruchirappalli - 620015
Tenth CDBR-SSE workshop	National	19 th June 2009 to 20 th June 2009	Chairman	National Institute of Technology Tiruchirappalli -

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				620015
Second Security Day workshop	National	9 th Oct. 2009	Chairman	National Institute of Technology Tiruchirappalli - 620015

19. Invited Talks delivered: 80 Invited Talks have been delivered since 1999.

20. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	ISTE	Since Jan. 2000
Life Member	CSI	9399, Since Jan. 2000
Member	IEEE	93604768, Since Jan. 2016

21. Academic Foreign Visits

Country	Duration of Visit	Programme
Australia	One Week	Presentation in Conference
Spain	One Week	Presentation in Conference
USA	One Month	TEQIP Visit, Presentation in Conference
Austria	One Week	Presentation in Conference
Canada	Two Days	University Visit
China	One Week	Presentation in Conference

22. Publications

(A) Refereed Research Journals: 31

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
S.Selvakumar and S.V.Raghavan	Differential priority based adaptive rate service discipline for QoS guarantee of video streams	International Journal of Computer Communications	20	1160-1174	1997	
S.Selvakumar, S.Mary Saira Bhanu, and S. Chandramouli	Simulation of Mobile Transmission Control Protocol	Computer Science and Informatics Journal, Computer Society of India	29	1-7	1999	

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S.Selvakumar, Amit Mahajan, Karan Malla, and Shailendrakumar singh	RGB Manipulation Techniques for water marks in Image Authentication and Stenographic Applications	Journal of Computer	31	1-7	2001	
S.Selvakumar and V. Venkateswaran	Partition Equalizer: A Scheduler for algorithm agile-encryptor ATM Networks	International Journal of Computer Communications	24	631-640	2001	
S.Selvakumar, and P. Prabakar	Implementation and Comparison of Distributed Caching Schemes	International Journal of Computer Communications	24	677-684	2001	
S.Selvakumar and Murali M. Brahmadesam	Secure Dynamic any caching for 'Best' server selection using active Networks	International Journal of Computer Communications	24	1819-1827	2001	
S.Selvakumar, Vijay V., and Swarup Kumar Sahoo	Delay Sensitive least frequently used algorithm for replacement in Web caches	International Journal of Computer Communications	27	322-326	2003	
S.Selvakumar and Suchismita Das	A Secure Single Transaction Online Voting Protocol	Journal of Computer Society of India	34	14-20	2004	
C. Mala and S.Selvakumar	A Novel Sense and Cache Scheme to provide seamless Internet access to mobile users in a Cellular network	International Journal Transactions on Computers	5	692-696	2006	
C. Mala and S.Selvakumar	Construction of an Optimal Multicast Tree for group communications in a cellular network using Genetic Algorithm	International journal Computer Communications , Elsevier Publications, UK	29	3306-3312	2006	
R. Leela and S. Selvakumar	QoS Routing Using Genetic Algorithm (QoSGA)	International Journal of Computer and Electrical Engineering	1	297-302	2009	

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		(IJCEE), Singapore				
R. Leela and S. Selvakumar	Dynamic Mutli Constraint Multi Path QoS Routing Algorithm (DMCMPRA)	International Journal of Computer and Applications, ACTA Press, Canada	32	347-354	2010	
V. Radhakishan and S. Selvakumar	CRAYSE : Design and Implementation of Efficient Text Search Algorithm in a Web Crawler	ACM SIGSOFT Software Engineering Notes	35	1-8	2010	
R. Leela and S. Selvakumar	Genetic algorithm approach to dynamic multiconstraint multipath QoS routing algorithm for IP networks	International Journal of Communication Networks and Distributed Systems	5	392-411	2010	
R. Leela and S. Selvakumar	Multi-Constraint QoS Unicast Routing Using Genetic Algorithm (MURUGA)	Applied Soft Computing Journal, Elsevier Publications	11	1753-1761	2011	
C. Vembuselvi and S. Selvakumar	LISISAP: Link Level Signature Based Secure Anonymous Protocol for Prevention of Traffic Analysis Attacks	ACM SIGSOFT Software Engineering Notes	36	1-10	2011	
P. Arun Raj Kumar and S. Selvakumar	Distributed Denial of Service Attack Detection using an Ensemble of Neural Classifier	International Journal of Computer Communications , Elsevier Publications, UK	34	1328-1341	2011	
Chandrabhanu Mahapatra and S. Selvakumar	An Online Cross View Difference and Behavior based Kernel Rootkit Detector	ACM SIGSOFT Software Engineering Notes	36	1-9	2011	
Subash Dangol and S. Selvakumar	Genuine ARP (GARP) – A Broadcast based	ACM SIGSOFT Software Engineering	36	1-10	2011	

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	Stateful Authentication Protocol	Notes				
Sharath Chandra, V. and S. Selvakumar	BIXSAN: Browser Independent XSS Sanitizer for prevention of XSS attacks	ACM SIGSOFT Software Engineering Notes	36	1-7	2011	
Arun Raj Kumar, P. and S. Selvakumar	M2KMIX: Identifying the type of High Rate Flooding Attacks using a Mixture of Expert Systems	International Journal of Computer Network and Information Security, MECS Publishers, Hong Kong	4	1-16	2012	
Kritika Govind, Vivek Kumar Pandey, and S. Selvakumar	Pattern Programmable Kernel Filter for Bot Detection	Defense Science Journal	62	174-179	2012	
R. Alageswaran, S. Selvakumar, and P. Neelamegam	WECalc: A Network Life Time Predictor Tool for WSN Applications	Research Journal of Applied Sciences, Engineering and Technology	4	1027-1034	2012	
Lakshmi Priya, S., Vinitha Reddy, G., and S. Selvakumar	Avoidance of Security Breach through Selective Permissions in Android Operating System	ACM SIGSOFT Software Engineering Notes	37	1-9	2012	
P. Arun Raj Kumar and S. Selvakumar	Detection of distributed denial of service attacks using an ensemble of adaptive and hybrid neuro-fuzzy systems	International Journal of Computer Communications , Elsevier Publications	36	303-319	2013	
Mohamed Ibrahim, A. K., Lijo George, Kritika Govind, and S. Selvakumar	Threshold Based Kernel Level HTTP Filter (TBHF) for DDoS Mitigation	International Journal of Computer Network and Information Security	12	31-39		
Siva Brahmasani, S.	Prevention of XSS Attacks Using	ACM SIGSOFT Software	37	1-6	2012	

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Selvakumar, and E. Sivasankar	STCD: Server Side Tagging and Client Side Differentiation	Engineering Notes				
Amritha Raghunath, Sadhana Ramachandran, Selvakumar Subramanian, and Sreevatsan Vaidyanathan	Data rate based adaptive thread assignment solution for combating the SlowPOST denial of service attack	ACM SIGSOFT Software Engineering Notes	38	1-5	2013	
Sugavanesh, B., Hari Prasath, R., and S. Selvakumar	SHS-HTTPS Enforcer: Enforcing HTTPS and preventing MITM	ACM SIGSOFT Software Engineering Notes	38	1-4	2013	
Vasudevan, A. R. and S. Selvakumar	Intraclass and interclass correlation coefficient-based feature selection in NIDS dataset	Security and Communication Networks, Wiley Publications	8	3441-3458	2015	
Sangeeta Bhattacharya and S. Selvakumar	LAWRA: A LAYered WRapper Feature Selection Approach for Network Attack Detection	Security and Communication Networks, Wiley Publications	8	3459-3468	2015	

(B) Conferences/Workshops/Symposia Proceedings: 38

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
S.Selvakumar and S.V. Raghavan	A new closed group communication protocol for Internet	Conference Proceedings on Computer Networks, architecture, and applications		Computer Networks, architecture, and applications	Bombay	1996
S.Selvakumar and S.V.Raghavan	Dynamic multicast address assignment	NETWORKS'96: International Conference on Computer	27-42	Computer Networks, architecture, and	Bombay	1996

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	protocol for Transient groups	Networks, architecture, and applications		applications		
S.Selvakumar and S.V.Raghavan	Dynamic multicast address assignment in Multimedia environments	SEACOMM'96, 2nd : International Conference on Communications and Computer Networks	35-38	Communications and Computer Networks	Kuala Lumpur, Malaysia	1996
S.Selvakumar and S.V.Raghavan	Multimedia communication with multicast support: A Framework based on RT architecture	SEARCC'97: XVI annual regional conference and exhibition	236-237	Computer Networks	New Delhi	1997
S.Selvakumar, J.Karthik, G.V.Ravishankar, and Y. Ramakrishna	A dynamic programmable shared virtual path assignment algorithm for multi-port communication in ATM networks	Proceedings of IEEE Tencon'99		Communications and Computer Networks	Bhopal	1999
S.Selvakumar, C. Mala, and K. Rajaraman	Web searching by Relocatable Crawlers using Shark-Search Algorithm	Proceedings of Seminar on Local Access Network for Next Millennium SLAN'98	121-128	Computer Networks	Bhopal	1998
S.Selvakumar, S. Mary Saira Bhanu, and R. Jaganathan	Mirror Site Synchronization using IP Multicast	Proceedings of Seminar on Local Access Network for Next Millennium - SLAN'98	129-140	Local Access Network	Bhopal	1998
S.Selvakumar, S. Mary Saira Bhanu, and N.Venkatesh	Simulation of Multicast Archie Server Hierarchy	Proceedings of Computing'99	41-47	Computing	Indore	1999
S.Selvakumar, C. Mala, V. Ganesh and D.Suresh	Web Caching Policies - A comparison	Proceedings of ADCOM'99 Conference	257-262	Computer Networks	Roorkee	1999
S.Selvakumar, C. Mala, S.R.Vijay Sundar, and S.	Email Web Server: Browsing of the	Proceedings of ADCOM'99 Conference	275-279	Computer Networks	Roorkee	1999

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Saravanan	Web through Email					
S.Selvakumar and Naoshad Mehta	A protocol for Secured Electronic Transactions over the Internet	Proceedings of the National Conference on Recent Trends in Advanced Computing NCR TAC 2000	49-54	Advanced Computing	Tirunelveli	2000
S.Selvakumar and P.Prabhakar	Implementation and Comparison of Distributed Caching Schemes	Conference Proceedings IEEE ICON 2000		Communications and Computer Networks	Singapore	2000
S.Selvakumar and A. Muruganantham	A Survey of Multicast Routing Protocols for Ad hoc Networks	Conference Proceedings on Computer Communications and Networking: CCN 2003		Computer Communications and Networking	IIT, Roorkee	2003
S.Selvakumar and R. Alageswaran	Design of QoS Analyzer for Real Time Video Stream	ADCOM 2003: International Conference on Advanced Computing		Advanced Computing	Roorkee	2003
C. Mala and S.Selvakumar	Genetic algorithm based routing for Multicast communication in Mobile networks	International Conference (CD) Proceedings of AACC 2005	268-272	Computer Communications and Networking	Nepal	2005
C. Mala and S.Selvakumar	Sense and Cache - a Novel Caching Scheme for mobile users in a Cellular Network	5th World Scientific and Engineering Academy and Society (WSEAS) International Conference - EHAC'06: Electronics, Hardware, Wireless, and Optical Communication		Wireless, and Optical Communication	Spain	2006

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R. Alageswaran and S. Selvakumar	Embedded Networks (EmNets): Building Blocks and Issues	National conference on Information Technology MEPCOIT'07		Computer Networks	Sivakasi Tamil Nadu	2007
R. Leela and S. Selvakumar	Dynamic Multi Constraint Multi Path QoS Routing Algorithm (DMCMPRA)	Eighth IASTED International Conference on Wireless Optical Communications (WOC 2008)	173-178	Wireless Optical Communications	Canada	2008
Avishkar Dusane Nilan and S. Selvakumar	ONTOWORD: Implementing Ontology-cum Keyword based Image Retrieval System with Automatic Annotation	Fourth National Conference on Emerging trends in Computer Technology (ETCT 2008)	49-53	Computer Technology	Surat, Gujarat	2008
R. Leela and S. Selvakumar	Multi Constraint Routing for MANETs using Genetic Algorithm (MRMGA)	International Conference on Communications Convergence and Broadband Networking ICCBN 2008	19-25	Broadband Networking	IISc, Bangalore	2008
Arun Raj Kumar, P., and S. Selvakumar	BEAR: Balanced Energy Aware Routing in Dense Wireless Multihop Sensor	Fourth National Conference on Machine Intelligence (NCMI 2008)	118-122	Machine Intelligence	Jagadhri, Haryana, India	2008
R. Leela and S. Selvakumar	Genetic Algorithm approach to Dynamic Multi Constraint Multi Path QoS Routing Algorithm for IP networks (GA-DMCMPRA)	Third Workshop on Intelligent Networks: Adaptation, Communication, and Reconfiguration (IAMCOM) held in conjunction with First International Conference on Communications Systems and	750-755	Communications Systems	Bangalore, India	2009

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		NETworks (COMSNETS 2009)				
Siddhartha Sankaran, Sourab Poddar, and S. Selvakumar	A Novel Security model SaW: Security against Wormhole attack in Wireless Sensor Network	International Conference on Parallel and Distributed Computing and Networks (PDCN 2009)	15-20	Parallel and Distributed Computing and Networks	Innsbruck, Austria	2009
Arun Raj Kumar, P., and S. Selvakumar	Distributed Denial of Service Threat in Collaborative Environment – A Survey of DDoS attack tools and traceback mechanisms	IEEE International Advance Computing Conference (IACC 2009)	1275-1280	Advance Computing	Patiala, Punjab	2009
B. Radha and S. Selvakumar	DEEPA: DEEP Packet Analysis cum Threshold Based DNS Monitoring Tool	International Conference on Advances and emerging trends in Computing Technologies (ICAET'10)	315-321	Computing Technologies	SRM University , Chennai	2010
Arun Raj Kumar, P., and S. Selvakumar	Mathematical Modeling of DDoS attack and Defense – A Survey	IEEE 3rd International Conference on Computer Modeling and Simulation (ICCMS 2011)	85-89	Computer Modeling and Simulation	Mumbai, Maharashtra	2011
S. Janani, R. Nithya, M. Swetha, and S. Selvakumar	A Novel Eight Clustering Fingerprint Signature (ECFS) Algorithm for Authentication	Proceedings of the National Conference on Biometrics: Theory, Applications, and Systems (BTAS 2011)	6-10	Biometrics	Tiruchirappalli, Tamil Nadu	2011
Vasudevan, A, R. and S. Selvakumar	Effect of Data Normalization Techniques on Intrusion	International Conference on Frontiers of Computer Science	313-318	Frontiers of Computer Science	Bangalore , Karnataka	2011

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	Detection Dataset					
B. Radha and S. Selvakumar	DEEPAV2: A DNS Monitor Tool for Prevention of Public IP DNS Rebinding Attack	Third International Conference on Advances in Recent Technologies in Communication & Computing - ARTCom 2011	72-77	Communication and Computing	Reva Institute of Technology and management, Bangalore	2011
V. Radhakishan and S. Selvakumar	Prevention of Man-in-the-Middle attacks using ID Based Signatures	IEEE 2nd International Conference on Networking and Distributed Computing (ICNDC 2011)	165-169	Networking and Distributed Computing	Beijing, China	2011
Arun Raj Kumar, P., and S. Selvakumar	Anomaly Detection using REONIT and Attack Confirmation using Neural Ensemble	IEEE International Conference on Computational Intelligence and Communication Networks (CICN 2011)	197-201	Computational Intelligence and Communication Networks	Machine Intelligence Research (MIR) Labs, Gwalior	2011
Vasudevan, A. R., E. Harshini, and S. Selvakumar	SSENet 2011: A Intrusion Detection Dataset and its comparison with KDD Cup'99 Dataset	International Conference on Asian Himalayas International Conference on Internet (AH-ICI 2011)	121-125	Internet	Kathmandu, Nepal	2011
R. Alageswaran, S. Selvakumar, and P. Neelamegam	Life Time based Analysis of MAC Protocols of Wireless Adhoc Networks in WSN Applications	International Conference on Computer, Communication and Information Sciences, and Engineering	1096-1100	Computer and Communication	Kuala Lumpur, Malaysia	2012
Ravi Kumar and S. Selvakumar	Client Side Prevention of DDoS Attack through Prevention of Buffer Overflow	Proceedings of International Conference on Electrical Engineering and Computer Science (ICEECS-2012)	1-8	Computer Networks	Goa	2012

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	Attack					
K. John Paul and S. Selvakumar	Symptoms Based Detection and Removal of Bot Processes	Proceedings of International Conference on Recent Trends in Computing (ICRTC 2012), SRM University, NCR Campus, Delhi	1-4	Computing	SRM University , NCR Campus, Delhi	2012
Prithvin, M. and S. Selvakumar	Implementation of Security in Wireless Networks using Session Keys	International Conference on. Computing, Communication and Advanced Network (ICCCAN 2013)		Advanced Networks and Communications	Chennai, India	2013
Harsha Rao and S. Selvakumar	A Kernel Space Solution for the Detection of Android Bootkit	48th Annual Convention on ICT and Critical Infrastructure (CSI-2013)	703-711	ICT and Critical Infrastructure	Visakhapatnam	2013
Sangeeta Bhattacharya and S. Selvakumar	SSENet-2014 Dataset: A Dataset for Detection of Multiconnection Attacks	Proceedings of the 3rd International Conference on Eco-friendly Computing and Communication Systems, ICECCS 2014	121-126	Eco-friendly Computing	NITK Surathkal, Mangalore	2014

(C) Books & Monographs: NIL