

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

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

1. Name: Saravanan Subbarayan
2. Designation: Assistant Professor
3. Office Address: Department of Civil Engineering,
NIT Trichy
4. Telephone (Direct) (Optional): Telephone : 04312505175
Mobile : 9489104248
5. Email (Primary): ssaravanan@nitt.edu Email (Secondary)
: ssaravananirs@gmail.com
6. Field(s) of Specialization: Remote Sensing and Hydrology

7. Employment Profile

Job Title	Employer	From	To
Research Associate	Centre for Water Resources, Anna University, Chennai	04-09-2004	17-12-2004
Assistant Professor in Civil Engineering	National Institute of Technology, Tiruchirappalli	19.01.09	to Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Indian Institute of Technology Roorkee,	2013	-	Civil Engineering / Rainfall Runoff modeling
M.Tech	Institute of Remote sensing, Anna University, Chennai	2001	7.72	Remote sensing and GIS
B.E	P.S.G College of Technology, Bharathiyar University	1999	63.45	Civil Engineering
HSC	Board of Secondary Education , Chennai	1995	78	Maths/Science/Biology

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Course coordinator for Basic Civil Engineering	To co-ordinate the syllabus coverage, preparation of question papers and	2010	2011
Fluid Mechanics Lab in charge	Purchased various fluid mechanics lab equipment for B.Tech. students	2006	2011
Stock verification officer	Verification of stocks in different departments.	2008	2013
Time table committee coordinator	Preparation of time tables for U.G & P.G students – NIT Tiruchirappalli	2013	2014
Convocation Committee	Committee member	2006	2016

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Local Coordinator	Coordinator for NNRMS/DOS/UGC/CIET/ IIRS sponsored satellite based distance learning program	2011	2015
Book reviewer	Hydrology and Floodplain Analysis (ISBN-10: 0132567962) Philip B. Bedient, Rice University, Wayne C. Huber, Oregon State University, Baxter E. Vieux, University of Oklahoma.	2010	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2013	Berkner travel grant	American Geo-Physical Union, Washington DC. USA.
2009	Endeavour Post-Doctoral Research Fellowship	Endeavour, Australia
2007	Travel Grant -First Indian invited for the COE program for participate workshop on BTOPMC model for Asian monsoon region.	University of Yamanashi Japan
2006	International Travel Grant from DST	DST, NewDelhi
1999	KurathAlwar award / Best Project award	P.S.G. College of Technology, Coimbatore

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2009	Endeavour Post-Doctoral Research Fellowship	Endeavour, Australia	2009	2010

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13. Details of Academic Work

(i) Curriculum Development

- Irrigation and Hydraulic Structures
- Hydrology/ Water Resources Engineering
- Remote sensing and GIS for Environmental Engineering
- Groundwater Hydrology
- Waterpower Engineering
- Disaster Modeling and Management
- Hyperspectral remote Sensing

(ii) Courses taught at Postgraduate and Undergraduate levels

<i>For Under Graduate</i>	<i>For Post Graduate</i>
<ul style="list-style-type: none"> ▪ Irrigation and Hydraulic Structures ▪ Hydrology ▪ Water Resources Engineering ▪ Remote sensing and GIS ▪ Groundwater Hydrology ▪ Waterpower Engineering 	<ul style="list-style-type: none"> ▪ Remote sensing and GIS for Environmental Engineering ▪ Hyperspectral Image Processing

(iii) Projects guided at Postgraduate level

SI.No.	Name of the Scholar	Title of thesis	Area of Research	Year of Award
1	Mr. Syam. B	Absorption of heavy metals (Cu(II) and Cr(VI) from waste water by using <i>Azolla Filiculoidus (I-Phase)</i>	Waste water treatment	2013-14
2	Mr. Syam. B	Effect of Urbanization on ground water quality- A Case study for Tiruchirappalli city, Tamilnadu. (II-Phase)	Remote Sensing & GIS	2013-14
3	Mr. Subash	GIS Based water and Sewer design for NITT Campus	Water supply	2013-14
4	Akshaya. K.G.	Geoinformatics in mapping of flood prone area of Tiruchirappalli city Tamilnadu.	Urban flood modeling	2013-14
5	Ramya R.	Impact assessment of Ariyamangalam municipal solid waste dumping site on groundwater quality, Trichy	Leachate and Ground water quality	2014-15
6	Ramya R.	Numerical Simulation of Ground water Contaminant transport in Ariyamangalam municipal solid waste dumping site, Trichy	Numerical modeling Contaminant transport	2014-15
7	Rajesh R.	Assessment of Artificial recharge on ground water table and quality- A case study at NIT Trichy	Artificial recharge	2014-15
8	Rajesh R	Assessment of Microbial contamination in ground water, soil and air – a case study Trichy	Microbial contamination	2014-15
9	Antany	Effect of treated waste water irrigation on soil properties- A case study NIT Trichy	Water quality	2014-15
10	Jeevan Muthalli	Rapid analysis of BOD using microbial immobilization	Waste water treatment	2015-16

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11	Mahima Goyal	The Study of Pollutant dynamics in Noyyal river, Tamilnadu, India using QUAL2K.	River Pollution	2015-16
12	Ramaraj M.	Estimation of Sediment Concentration in Pichavaram Mangrove Forest Coastal Area using Remote Sensing	Remote sensing & Coastal Applications	2015-16
13	Anjana	Comparative study on treatment of cassava wastewater using free, unmobilized and biofilm of Trichoderma harzianum- Trichoderma viride consortium with subsequent phytotoxicity study	Waste water treatment	Pursuing
14	Anjali Shastri	Diphasic Anaerobic Process for Residual Food Waste with Recourse to Acid and Methane Production	Waste water treatment	Pursuing

(iv) Other contribution(s)

Institute Interaction Program with NIT Uttarakhand delivered lecture for B.Tech Students from 4-10-2015 to 11.10.2015.

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Site inspection and Technical opinion on Commissioning of Pillur - II CWSS along with Pillur - I CWSS to TWAD	TWAD, Govt.of TamilNadu	2009		Completed
Flood protection works in Right bank of Kollidam from LS 26.74km to 108.21km and LS108.21 to 168.21 km in Thanjavur and Nagapattinam District of Tamilnadu	PWD, Govt.of TamilNadu	2010		Completed
Design of Additional spillway for Sidhamalli reservoir for Public works Department, Tamilnadu	PWD, Govt.of TamilNadu	December 2011		Completed
Design of storm water drains for Air Force station, Thanjavur	Department of Defense, GOI	July 2012,		Completed
Testing of suitability of filling soil for the construction of new reservoir –Visvakudi, Marudayar Basin	PWD, Govt.of TamilNadu	October 2012		Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Mr. A. Selvaraj	Hyperspectral analysis for Mangrove mapping	Supervisor	Pursuing
Miss. Cynthia Baby Daniel	Geospatial modeling of Transport network analysis	Supervisor	Pursuing

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

Date	Title of Activity	Level of Event	Role	Event Organized by	Venue
22/9/16	Photogrammetry & Remote Sensing – an overview for policy makers	International	Participant	Survey of India	Trichy
27/2/06	Ground water modeling and water resource management	International	Participant	National institute of hydrology Roorkee	Delhi
27/4/07	Sustainable Resource Management in Ecological, Economical and Socio-Cultural Respects	International	Participant	NIH Roorkee	Delhi
27/2/08	Conservation and Management of Water Resources	International	Participant	IIT Roorkee	Roorkee
31/3/08	LiDAR Technology	International	Participant	IIT Kanpur	Kanpur
21/5/10	Climate change and its Impact on water resources	International	Participant	NIH & IIT Roorkee	Roorkee
11/2/11	Challenges ahead in the Ground Water sector of Tamilnadu, Tiruchirappalli	International	Participant	CGWB	Trichy
27/3/11	Issues and Challenges Department of Geography	National	Participant	Bharathidasan University	Trichy
2/12/11	Reservoir simulation and modeling	National	Participant	NIH Roorkee	Roorkee
3/2/2012	Advanced GPS Surveying (WAGS)	National	Participant	Central Groundwater board	Tiruchirappalli
10/5/2012	Geospatial Technologies and Application under NRDMS	National	Participant	school of GeoSciences BDU Tiruchirappalli	Tiruchirappalli
20/8/2012	ECV Soil moisture, A background and user guide to the ECV Soil Moisture product, Institute of Photogrammetry and Remote sensing	National	Participant	Vienna University of technology	Vienna
7/2/2013	4 th R&D Session of Indian National Committee for Groundwater, CGWB	National	Participant	Central Groundwater board, Ministry of Water resource	chennai
27/2/2013	Hyperspectral Remote sensing for Agriculture	National	Participant	Indian Agriculture Research Institute	Delhi

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14/3/2013	Edusat Outreach Programme in combination with IIRS User Interaction Meet (IUIM-2013)	National	Participant	ISRO and NRSC	Dehradun.
17/12/2013	Introduction to river and Channel modeling using MIKE 11, GIS based model development	National	Participant	DHI	Delhi
30/12/2013	India Workshop on Sustainable and Inclusive Mountain Development	National	Participant		Ootacamund
7/1/2014	Aquifer Information System and Aquifer management Plan"	National	Participant	Central Ground Water Board	Tiruchirappalli
2/6/2014	Storm water, Waste water and Flood Modeling using XPSWMM	National	Participant	Laca System Pvt Ltd	Chennai
22/6/2014	Dam Safety and Instrumentation	National	Participant	WAPCOS N. Delhi	New Delhi.

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

Title of Activity	Level of Event	Date (s)	Role	Venue
Recent trends in Hydraulics, water resources and coastal modelling	International	7-8 November 2013	Coordinator	National Institute of Technology, Tiruchirappalli
Innovation, Sustainability, solutions, Adoption, Implementation in Energy, Environment Ecosystem and Human Life	National/ Local	29-31 December 2013.	Coordinator	National Institute of Technology, Tiruchirappalli
Introduction to QGIS	National	7th August 2015	Coordinator	National Institute of Technology, Tiruchirappalli
Disaster Mitigation and Management for sustainable Development and Risk reduction	International	22-24 February 2016	Coordinator	National Institute of Technology, Tiruchirappalli
Advanced Soft Computing Tools in Water Resources and Coastal Engineering	National	8th – 10th September 2016	Coordinator	National Institute of Technology, Tiruchirappalli

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18. Invited Talks delivered

Topic	Date	Inviting Organization
Distributed rainfall runoff modeling using remote sensing and GIS	25-27 March, 2011	Bharathidasan University, Tiruchirappalli
Recent Trends on Remote sensing and GIS	27-28 Jan, 2012.	Annai college of Eng. & Tech. Kumbakonamduring
Assessment of the long-term hydrologic impacts of land use change on runoff - a case study, Noyyal basin", Geoinformatics for River Basin Studies	3-4 March, 2012	School of Geosciences, Bharathidasan University
Soil Erosion Modeling using Spatial Techniques	3-4 March, 2012.	School of Environmental, at Bharathidasan University
Delivered aguest lecture on "Open Channel Flow Hydraulics	29 th Nov, 2013.	Department of Civil Engineering Anna University, Tuticorinon
Spatially Distributed Rainfall-Runoff Modeling using GIS	6 -7Nov, 2013	Department of Civil Engineering, NITT
Landslide and Mass-Movement Modeling Using GIS	8 th Dec, 2013.	Department of Civil Engineering National Institute of Technology
Artificial recharge zone identification for rain water harvesting - A Case Study of Swetha nadhi Basin, Tamilnadu"	Jan23 & 24, 2014.	Department of Civil Engineering National Institute of Technology
Assessment of Reservoir Sedimentation using Remote Sensing Technique	12-14th February 2014.	" National Institute of Hydrology, Deltic Reign, Kakinada
GIS Application on Flood Modeling and Management	27 th Feb, 2014.	Department of Geography, University of Madras
Application of GIS and Remote Sensing on Water Resource Management	14th March 2014	Dept. of Civil Engineering, Amrita Vidyapeetham, Coimbatore
Geo-Spatial Technology Application for Water Resource Management	12 on 24th March 2014	School of Mechanical and Building Sciences, VIT, Chennai Campus, Chennai-.
Application for GIS and Remote Sensing techniques for Water Resource Management	25 th Sept-2014.	Periyar College, Tiruchirappalli
Remote sensing and GIS application for groundwater resources development and management	December 5-6th, 2014	Department of Civil engineering Satyabama University, Chennai.
Advanced remote sensing applications on Civil engineering" on one day workshop on recent trends in Civil Engineering on	March 18 th 2015	Department of Civil Engineering, Emayam College of Engineering, Thuriyur.
Application of GIS inCivil Engineering" on	24.04.2015.	Anna University, Bharathidasan Institute of Technology, Tiruchirappalli
Geomatics applications on shoreline change monitoring: A case study of Ennore coast of Chennai" on one day national level conference on Soft computing techniques in structural and environmental engineering (SCTSEE 2015)	March 20 th 2014	Anna University Dindugal

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19. Membership of Learned Societies

Type of Membership	Organization	Membership No. with date
Life Member	Indian Society of Remote Sensing (ISRS)	4447
Life Member	Indian Association of Hydrologists (IAH).	1582
Life Member	Indian Association of Hydrologists (IWRs)	10-7250
Life Member	American Geophysical Union (AGU).	263361
Life Member	Indian GeoTechnical Society	3362

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore	21 to 30.05.2006	To attend and present a paper in the 3rd biennial IWA Young Researchers Conference (YRC), May 24-26 2006. Nanyang Technological University, Singapore.
Yamanashi, Japan	03 to 08-07.2007	To attend an On-site workshop on "Distributed Hydrological Model YHyM/BTOPMC", organized and sponsored by University of Yamanashi.
Vienna, Austria	19 to 23.09.2012	To attend an ECV soil moisture workshop organized by Institute of Photogrammetric and Remote sensing, Vienna University of Technology, Austria.
Washington, USA	22 to 27.06.2013	To attend Science Policy Conference organized and sponsored by American Geophysical Union (AGU), Washington.

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal
Muthu Krishnan, S.Saravanan and Srinivasan. V	Development of Remote Sensing and GIS in Runoff Estimation for Urban Area	Journal of Indian Building Congress,	12(1)	207 – 214	2005	
Saravanan. S and Suresh Babu. P	Ground water potential zone identification in lower Palar basin, Tamilnadu, using remote sensing and GIS.	Water and Environmental Management Series of IWA		297- 305.	2006,	

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Rama rao. N and S. Saravanan	Remote sensing based estimation of agricultural crops damage due to Asian tsunami	International Journal of Applied Remote Sensing.	2 (1),	50-56	2008	
Saravanan. S., Sathiya murthi. S and Elayaraja. D	Soil Erosion Mapping of Katteri watershed using Universal Soil Loss Equation and GIS.	Journal of the Indian society of soil science,	58(4).		2010	
Arun Kumar T. and Saravanan.S	Treatability studies of textile wastewater on an Aerobic Fluidized bed Biofilm Reactor (FABR): a case study	International Journal of Water Science & Technology,	1817-1821		2009.	
Jenifa Latha C.,Saravanan. S, Palanichamy. K	A Semi – Distributed Water Balance Model for Amaravathi River Basin using Remote Sensing and GIS,	International Journal of Geomatics and Geosciences	1(2)	252-263(I	2010	
Jenifa Latha C.,Saravanan. S, Palanichamy. K	Estimation of spatially distributed monthly evapotranspiration,	International Journal of Engineering science and technology,	Vol-3(2),	877-883	2011.	
Kasiviswanathan K.S., Soundhar Raja Pandian. R., Saravanan. S, Avinash Agarwal.	Genetic programming approach on evaporation losses and its effect on climate change for Vaipar Basin.	International Journal of Computer Science Issues,	Vol. 8, Issue 5,	1694-0814).	2011.	
Saravanan, S	Identification of Artificial Recharge sites in a hard rock terrain using remote sensing and GIS.	International Journal of Earth sciences and Engineering,		2012. Vol. 5, Issue 6		
Sartiyamurthi, S. and S.Saravanan	Multivariate analysis and quality assessment of irrigation water in coastal areas of Chidembaram Taluk.	International Journal of Earth sciences and Engineering		Vol. 6, Issue 1	2013.	
Sartiyamurthi, S. and S.Saravanan	Modelling of Irrigation Water Quality of Coastal Area Using Back Propagation-Multi Layer Perceptron	Universal Journal of Environmental Research and Technology	., Vol. 3, Issue 2,	273-280	2013	

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	Artificial Neural Network.					
Saravanan.S and Manjula.R	Geomorphology Based Semi-distributed Approach for Modeling Rainfall-runoff Modeling Using GIS	Aquatic Proceedia, Elsevier	Vol.4,	908-916.	2015.	
Manjula.R, Sannasiraj S.A and Saravanan	Experimental Investigation of Response of Vertical Slender Cylinder under Breaking Wave Impact.	Aquatic Proceedia, Elsevier	Vol.4,	227-233.	2015.	
B.Karthikeyan, R.Selvaraj and S.Saravanan.	Mechanical Properties of Foam Concrete	International Journal of Earth Science and Engineering	Vol 8-2, 2015.	115- 119.	2015	
B.Karthikeyan, R.Selvaraj and S.Saravanan.	Electrochemical Durability Tests for Lightweight Concrete,	International Journal of Applied Engineering Research,	Vol 10	13774-13777.	2015	
B.Karthikeyan, R.Selvaraj and S.Saravanan.	Study and Characterisation of Foam Concrete with Pozzalanic Materials	International Journal of Applied Engineering Research,.	Vol 10-62	369- 374	2015	
K. S. Kasiviswanathan, S. Saravanan, M. Balamurugan K. Saravanan	Genetic programming based monthly groundwater level forecast models with uncertainty quantification	Model. Earth Syst. Environ.(Springer)	2(1)		2016	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Saravanan S. and Suresh Babu P	Estimation of runoff from a hilly watershed using SCS-CN method	HYDRO-2005,	CD	Flood Modeling	Siddaganga Institute of Technology, Tumkur, Karnataka, India.	2005

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Saravanan S., Z. Ahmed and Jain. M. K	Storm runoff prediction based on a spatially distributed unit hydrograph	Indo- Australian conference on information technology in civil engineering,			International conference, Department of civil engineering, Indian Institute of Technology, Roorkee	20-22nd Feb, 2006
Saravanan S., Z. Ahmed and Jain. M. K.,	Modeling of flood events using spatially distributed unit hydrograph	SPIE Asia- Pacific Remote Sensing, Symposium Goa, India	6411, 6414.		Goa	13-17 Novemb er 2006
Saravanan S., Sakthivel B.,	Spatial Variability analysis of evapo- transpiration on a catchment scale using GIS	International Ground water Conference	257- 258.	on Water, Environ ment and Agricult ure	Present Problems and Future Challenges, Coimbatore	Feb. 7- 10, 2007
Saravanan S., Sathiya murthi S., 2007.	Assessment of irrigation water quality of coastal area of Chidembara m taluk in Tamil Nadu using GIS	International Conference on Civil Engineering in the New Millennium: Opportunitie s and Challenges	257- 258.		Kolcutta	11-14th Jan 2007,
Saravanan S., Sathiya murthi S.,	Mapping spatially distributed soil erosion with universal soil loss equation and GIS	HYDROCA RE2007			Department of Earth science, Annamalai University, Annamalai nagar	22-23rd March, 2007
Saravanan S., Arun Kumar T, Kannan S.,	Assessment of Impact of STP on Ground water Quality Using Geographic Information System	8th IWA Specialized Conference on Small Water and Wastewater Systems (SWWS)			Coimbatore	Februar y 6-9th, 2008.
Arun Kumar T., Saravanan S	Treatability Studies of Textile	4th IWA Young Water			Berkeley, USA.	16-18 July 2008,

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	Wastewater on an Aerobic Fluidized Bed Biofilm Reactor (FABR) – A Case Study	Professionals International Conference				
Saravanan S., Kasiviswanathan K. Sand Sathiya murthi	Soil erosion mapping of Katteri watershed using Unit Stream Power-based Erosion Deposition model (USPED) and GIS	International conference on Landuse change Bio diversity and Climate change			1. Marthandam, India.	6-7 th October 2008
Saravanan S., Sathiya murthi S.	Performance evaluation of back propagation and radial basis function based neural networks in rainfall-runoff modeling	HYDRO2008	CD		Malaviya National Institute of technology, Jaipur, India	15-16 th Dec, 2008
Jenifa Latha C., Sarvanan S., and Palanichamy K	"Modelling of evaporation using artificial neural network for Kovilar and Periyar reservoir, Tamil Nadu, India"	HYDRO2009,	CD		2. CWPRS, Pune, India.	17-18 Dec, 2009,
Saravanan S., Kasiviswanathan K. S., and Sathiya murthi S.,	Estimation of monthly evaporation for Kovilar reservoir using Genetic Programming and	INDIA 2010, 3rd International Perspective on Current & Future State of Water Resources	CD		Indian Institute of Technology Madras, Chennai, India	5-10 Jan, 2010,.

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	Thornthwaite method”	& the Environment				
Jenifa Latha C., Sarvanan S., and Palanichamy K.,	Spatial water balance modeling using GIS	ICHWAM-2010 International Conference on hydrology and watershed management			Jawaharlal Nehru technological University, Hyderabad, India.	3-6 Feb, 2010
Kasiviswanathan, K.S., S. Saravanan and R. Soundhar,	Application of Ceteremps Hydrological Model (CHYM) in assessing global warming effects on water resources	GWEWR-2010 two day national seminar on Global Warming and its Effect on Water Resources hydrology and watershed management		CD	Graphic Era University, Dehradun India.	3-4 Dec, 2010
R. Soundhara Raja Pandian, S. Thangalakshmi, S. Saravanan	Virtual Learning System: A Conceptual Framework of Network Optimization	SocProS 2011 International conference on Soft Computing for Problem Solving (SocProS 2011), Roorkee, India	AISC 130, pp. 749–755		Proceedings of the International Conf. on SocProS 2011	December 20-22, 2011,
Saravanan.S, Saravanan. K and. Subashri R	Runoff Estimation from a Watershed Using SCS - CN Method and GIS	National Conference cum Pre-Conference Workshop on Geosynthetics: Present and Future Perspectives		CD	Bannari Amman Institute of Technology, Sathyamangalam Tamilnadu.	3-4 February 2012
Premavathi. O., S. Saravanan., and Anuthaman. N.G.,	Optimal solutions to reservoir operation for time and volume	National Conference on Advanced trends in			Karpagam University, Coimbatore	2-3 March 2012

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	reliability using DSS: application to Vaigai reservoir	civil engineering				
Saravanan. S	Assessment of the long-term hydrologic impacts of land use change on runoff - a case study, Noyyal basin	River Basin Studies UGC-SAP Sponsored National Seminar at National Conference on Geoinformatics			Bharathidasan University, Tiruchirappalli.	March 3-4, 2012
Saravanan. K, S. Saravanan and Kasiviswanathan, K.S	Morphometry Analysis of Bhavani River Basin In Tamilnadu, India	Proceedings of National Conference on Hydraulic and Water Resources (HYDRO 2012)			IIT Bombay, India.	December 7-8, 2012,
Saravanan. S	Remote GIS and Remote sensing Assisted Rainfall-Runoff Simulation for Amarawathi River Basin, Tamilnadu	UGC Sponsored National Seminar on Geoinformatics in Land and Water Resources Studies			School of Geosciences Bharathidasan University	March 1-2, 2013
Saravanan. S	GIS- Based Landslide Susceptibility Mapping – A Case Study of Conoour Watershed, Tamil Nadu, India	8 th International congress on climate change Territorial Classification & Socio-Economics Crisis			Center for Remote Sensing and Department of Economics, Bharathidasan University, Tiruchirappalli	April 23-25, 2013.
Saravanan. S	GIS and Remote sensing	International Conference on Environmental Earth Science			Madras University, Chennai	19-22 March, 2013
Rajesh.R, Antony Raj. A, Ramya.M,	Evaluation of groundwater quality in	International Conference on Green Technology			National Institute of Technology, Tiruchirappalli.	27-29, September 2014

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Saravanan.S, Manjula.R.	and around Ariyamangalam landfill site, Tiruchirappalli, India: an integrated geochemical and GIS approach	for Environmental Pollution Prevention and Control				
Ramya.M, Saravanan.S, Manjula.R,	“Municipal Solid Waste Characteristics and Management- A Case Study on Ariyamangalam landfill site, Tiruchirappalli, India	International Conference on Green Technology for Environmental Pollution Prevention and Control			National Institute of Technology, Tiruchirappalli.	25-27, December 2014
Ramya M, Saravanan S and Manjula R	Investigating Ground water Contamination using vertical electrical sounding around Ariyamangalam Municipal Solid waste Dumpsite, Trichy, Tamilnadu	International Conference on Sustainable Energy and Built Environment			National Institute of Technology, Tiruchirappalli	12-13, March 2015.
Sakthivel G, LakshmananR, Arthur James, Manjula R and Saravanan S	Assessment of microbial pollution and land use land cover changes in Cuddalore coastal Region”, Tamilnadu,	NCAACE'15 National Conference			Saveetha University.	2015.
Rajesh R, Saravanan S and Manjula R	Assessment of artificial recharge on ground water quality and table- A	National conference			Saveetha University	4th April 2015

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	case study at NIT Trichy					
Antony Raj. A, Rajesh. R, Ramya. M, Saravanan.S and Manjula. R.,	Effects of Treated Wastewater Irrigation on Soil Properties – A Case Study at NIT Trichy	ICACEMAP 2015, Proceedings of International Conference on Advances in Civil Engineering Materials and Processes			CIT, Coimbatore.	Jan 7-9, 2015
Saravanan, K. S. Kasiviswanathan and S. Saravanan	Morphometric Analysis of Bhavani Drainage Basin in Tamilnadu State	NCAACE'15 National Conference			Saveetha University.	2015
SaravananS., K.S.S. Parthasarathy, P.R. Kumaresan, T. Vasanthkumar and S.R. Vishnu Prasath,	Ground Water Potential Zone Identification inThuraiyur using Remote Sensing and GIS	NCAACE'15 , National Conference			Saveetha University.	4th April 2015
SaravananS., S. Sathiyamurthi, R. Manjula, S. Sivaranjani	Assessment of sediment yield modeling using SWAT- A case study of Kiliyar sub-watershed"	International Conference on Modeling Tools for Sustainable Water Resources Management			Department of Civil Engineering, Indian Institute of Technology Hyderabad	28-29 December 2014
DavuluriSyamBabu and Saravanan.S,	Biosorption of Heavy Metals (Cu (II) and Cr (VI) from Industrial Waste Water using Azolla Filiculoidus	NCAACE'15			Saveetha University	4th April 2015
Manjula R, Sannasiraj S.A	Experimental	international conference			NIT Surathkal 2015	13-03-2015

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and Saravanan S,	Investigation of response of vertical slender cylinder under breaking wave impact	on water resources, coastal and ocean Engineering				
Saravanan S., and Manjula R.,	Geomorphology Based Semi-Distributed approach for Modeling Rainfall-Runoff Modeling using GIS”	international conference on water resources, coastal and ocean Engineering 2015.			NIT Surathkal	13-03-2015
KarthikeyanB., R.Selvaraj, and S.Saravanan	Study and Characterisation of Foam Concrete with Pozzalanic Materials	International Conference on Advances in Civil Engineering Materials and Processes			Coimbatore Institute of Technology, Coimbatore	08-01-2015
KarthikeyanB., R.Selvaraj, and S.Saravanan,	Electrochemical Durability Test for Light Weight Concrete	International Conference on Advanced Engineering and Technology for Sustainable Development 2015.			Karpagam College of Engineering, Coimbatore	05-03-2015
KarthikeyanB.,R .Selvaraj, and S.Saravanan	Durability Test for Light Weight Concrete	International Conference on Sustainable Energy and Built Environment			VIT University	12-13, March 2015.
KarthikeyanB.,R .Selvaraj, and S.Saravanan	Mechanical Properties of Foam Concrete	International Conference on Earth Sciences and Engineering 2015			Nehru Institute of Technology, Coimbatore	20-03-2015

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Saravanan S. and V.S. Jeyakanthan	Estimation of Sedimentation using per-pixel and sub-pixel classification	National Conference on Climate Change and Sustainable Water Resources Management			NIT Warangal	3-5 September, 2015.
Saravanan S. and V. S. Jeyakanthan	Monitoring capacity loss of a coastal reservoir using satellite data	National Conference on Coastal Environment			Sathyabama University, Chennai	29-30, October, 2015
S. Saravanan, Parthasarathy K.S.S, P.R. Kumaresan, S.R.V. Prasath, T.V. Kumar	Shoreline Change detection for Chennai coast using geospatial techniques”	International Conference on Hydraulics, Water resource and River engineering (Hydro 2015)			Indian Institute of Technology Roorkee, Roorkee	17-19, December, 2015.
S. Saravanan, Manjula R, Surendadar	Probability analysis of Maximum rainfall for hydrological investigation in Perambalur district	20 th International Conference on Hydraulics, Water resource and River engineering (Hydro 2015)			Indian Institute of Technology Roorkee, Roorkee	17-19, December, 2015.
R. Manjula, Saravanan S	Study of local scour around bridge piers in sandy soil	20 th International Conference on Hydraulics, Water resource and River engineering (Hydro 2015)			Indian Institute of Technology Roorkee, Roorkee	17-19, December, 2015.
S. Saravanan, Parthasarathy K.S.S, S.R.V. Prasath	Coastal Vulnerability Assessment using Geospatial Techniques – A Case	1 st International Conference on Disaster Mitigation and Management			National Institute of Technology Tiruchirappalli, Tiruchirappalli	22-24, February, 2016.

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	study for Cuddalore	t for Sustainable Development and Risk Reduction				
Jeyakanthan V., S.Saravanan S,Satyaji Rao Y.R & R. Venkataramana	Reservoir Capacity Estimation Using Sub-Pixel Classification Approach	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli, Tiruchirappalli	24-02-2016
Colins Johnny.J, M.C. Sashikkumar, S. Saravanan, S. Siva Ilango	Suitability assessment of groundwater in Kodaganar basin, Tamil Nadu, India	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli, Tiruchirappalli	22-24, February, 2016
Selvaraj.A Saravanan.S	Prediction of water quality index using fuzzy inference system in perambalur District, Tamilnadu	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction 22-24, February, 2016.			National Institute of Technology Tiruchirappalli,	24-02-2016
Jeevan S.M, Saravanan.S	Rapid analysis of BOD to investigate frequent change in organic load analysis anthropoge	1 st International Conference on Disaster Mitigation and Management for Sustainable			National Institute of Technology Tiruchirappalli	22-24, February, 2016.

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	nic disaster risks	Development and Risk Reduction				
Kasiviswanadhan K.S, Balamurugan. M, Saravanan. K, Saravanan.S	Probabilistic based Disaggregation Approach for Developing IDF Curves	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli,	22-24, February, 2016
Sivaranjani.S, Saravana.S, Satyamurthi.S	A Study of spatially varying Evapotranspiration using surface Energy Balance System (SEBS)- A Case study of Lower Cauvery basin, Tamilnadu	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli,	22-24, February, 2016.
Mahima Goyal, Saravan.S, Satya	A Study of pollutant dynamics using QUAL2K A case study of Noyyal river basin, Tamilnadu	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli	22-24, February, 2016.
Sreedhar Goud.S, Saravanan.S, Sivaranjani.S	Assessment of damages of vegetation cover in Visakhapatnam due to HUD-HUD super cyclone using multispectra	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli	22-24, February, 2016

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	I satellite imagery					
Manjula.R and Saravanan.S	Numerical simulation for hydrodynamic Response of Regular Waves on A Vertical Cylinder”	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli	22-24, February, 2016
Saravanan.S Selvaraj.A, Sivaranjani.S	Fuzzy based Geospatial Modelling For landslide Hazard susceptibility in a coonour Watershed, Nilagri, India	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli	22-24, February, 2016
Saravan.S	GIS based rainfall runoff simulation: a TOPMODEL application to the Manimuktha Water shed, Tamilandu	1 st International Conference on Disaster Mitigation and Management for Sustainable Development and Risk Reduction			National Institute of Technology Tiruchirappalli	22-24, February, 2016.

(C) Books & Monographs

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