Brief Profile

Name of Teaching Staff	Dr. V. P. Huggi			
Designation	Professor	Professor		
Date of Joining the	03-08-1984			
Institution				
Contact Number	08352-261120, +91 98457 28646			
Qualification with	UG	PG	Ph.D.	
Class	B.E.(Civil)	M.Tech.(HWRE)	IIT Bombay	
	FC	FC		
Total Experience	Teaching	Industry	Research	
-	36	-	10	
Papers Published	International Journal	S		
	 1) "Estimation of solute transport parameters of ground water systems using Genetic Algorithm" Paper published in "Water and Energy International" Journal in the volume Oct. – Dec. 2003. 2) "Estimation of parameters of a coupled flow-mass transport model by constitution of parameters of a coupled flow-mass transport model by constitution of parameters of a coupled flow-mass transport model by constitution." 			
	genetic algorithm and weighted least squares (WLS)" Paper published in ASCE Journal of Hydrologic Engineering Nov-Dec. 2007			
	3)"Application of simulated annealing for a coupled process parameter inversion model based on weighted least squares (WLS) method" Paper published in ASCE Journal of Water Resources Planning and Management March 2006.			
	4)"Optimum Model structure Identification based on reliability of flow and mass transport parameters using simulated annealing" accepted for publication in International journal of computing in civil engineering after reviews.			
	5)"Estimation of system parameters of Groundwater systems by auto calibration using GNM and GA" communicated to International ASCE journal of Hydrologic Engineering			
	6)"Hybrid modelling to estimate coupled flow-mass transport parameters" communicated to International ASCE Journal of computing in civil engineering.			
	7)"Estimation of system parameters in groundwater systems by inverse modeling using GNM and GA-A case study" communicated to International ASCE journal of Hydrologic Engineering			
	8)"Estimation of system parameters in groundwater systems by inverse modelling using GNM and SA-A case study" communicated to International ASCE journal of Water Resources Planning and Management			
	National Journals			
	1)"Application of simulated annealing for a coupled process parameter			

 inversion model" accepted for publication in Hydrology Journal of IAH and appeared in the issue 28(3) in 2007. International Conferences I) International Conference on "Computer Simulation in Risk Analysis and Hazard Mitigation" Organized by Wessex Institute of Technology, Southampton, United Kingdom from 27-29 Sept. 2004. Title of paper "Application of Genetic Algorithm and Simulated Annealing for Inverse modeling of Ground Water systems". 2) Application of genetic algorithm and simulated annealing to estimate solute transport parameters in groundwater systems" International conference organized by AOGS-2005 (Asia Ocean Geoscience Society) Singapure from 20th to 24th June 2005. 3) International conference on "Calibration and reliability in groundwater modeling from uncertainty to decision making" held in Netherlands in the month of June 2005. Title of paper is "Application of genetic algorithm and simulated annealing for inverse modeling of groundwater systems". 4) International Conference on "Civil Engineering in the New Millennium: Opportunities and Challenges" Organized by Department of Civil Engineering. Rengal Engineering and Science University, Shibpur, Howrah-711103, W.B., India. Title of the paper "GNM, GA and SA For Parameter Inversion in Porous Media". 5) International Conference on "Emerging Challenges in Design and Manufacturing Technologies-2007" Organized by Sathyabama University in association with Combat Vehicles Research and Development Establishment Chennai from 28th to 30th November 2007. Title of the paper "Simulation of flow and mass transport in Groundwater systems using Finite Element Model" 6) International Seminar on "Reforms in the Irrigation And power, Govt of Karanataka and its subsidiaries, ICID, FAO,NDC-WWC, IWRA (India) from 18th Dec. to 20th Dave-2008 at Banglore. Title of the paper "Estimation of system parameters in groundwater systems using inverse modeling: A c	
 1) International Conference on "Computer Simulation in Risk Analysis and Hazard Mitigation" Organized by Wessex Institute of Technology, Southampton, United Kingdom from 27-29 Sept. 2004. Title of paper "Application of Genetic Algorithm and Simulated Annealing for Inverse modeling of Ground Water systems". 2)Application of genetic algorithm and simulated annealing to estimate solute transport parameters in groundwater systems" International conference organized by AOGS-2005 (Asia Occan Geoscience Society) Singapure from 20th to 24th June 2005. 3)International conference on "Calibration and reliability in groundwater modeling from uncertainty to decision making" held in Netherlands in the month of June 2005. Title of paper is "Application of genetic algorithm and simulated annealing for inverse modeling of groundwater systems". 4)International Conference on "Civil Engineering in the New Millennium: Opportunities and Challenges" Organized by Department of Civil Engineering, Bengal Engineering and Science University, Shibpur, Howrah-711103, W.B., India. Title of the paper "GNM, GA and SA For Parameter Inversion in Porous Media". 5)International Conference on "Emerging Challenges in Design and Manufacturing Technologies-2007" Organized by Sathyabama University in association with Combat Vehicles Research and Development Establishment Chennai from 28th to 30th November 2007. Title of the paper "Simulation of flow and mass transport in Groundwater systems using Finite Element Model" 6)International Seminar on "Reforms in the Irrigation Management for effective IWRM" Organized by Central board of Irrigation and Power, Govt of Karanataka and its subsidiaries, ICID, FAO,NDC-WWC, IWRA (India) from 18th Dee. to 20th Aug. 2010. Title of the paper "Estimation of system parameters in groundwater systems using inverse modeling: A case study" 7)The Ninth International Conference on "Hydro-Science and Engineering (ICHE 2010)"	inversion model" accepted for publication in Hydrology Journal of IAH and appeared in the issue 28(3) in 2007.
 1) International Conference on "Computer Simulation in Risk Analysis and Hazard Mitigation" Organized by Wessex Institute of Technology, Southampton, United Kingdom from 27-29 Sept. 2004. Title of paper "Application of Genetic Algorithm and Simulated Annealing for Inverse modeling of Ground Water systems". 2)Application of genetic algorithm and simulated annealing to estimate solute transport parameters in groundwater systems" International conference organized by AOGS-2005 (Asia Occan Geoscience Society) Singapure from 20th to 24th June 2005. 3)International conference on "Calibration and reliability in groundwater modeling from uncertainty to decision making" held in Netherlands in the month of June 2005. Title of paper is "Application of genetic algorithm and simulated annealing for inverse modeling of groundwater systems". 4)International Conference on "Civil Engineering in the New Millennium: Opportunities and Challenges" Organized by Department of Civil Engineering, Bengal Engineering and Science University, Shibpur, Howrah-711103, W.B., India. Title of the paper "GNM, GA and SA For Parameter Inversion in Porous Media". 5)International Conference on "Emerging Challenges in Design and Manufacturing Technologies-2007" Organized by Sathyabama University in association with Combat Vehicles Research and Development Establishment Chennai from 28th to 30th November 2007. Title of the paper "Simulation of flow and mass transport in Groundwater systems using Finite Element Model" 6)International Seminar on "Reforms in the Irrigation Management for effective IWRM" Organized by Central board of Irrigation and Power, Govt of Karanataka and its subsidiaries, ICID, FAO,NDC-WWC, IWRA (India) from 18th Dee. to 20th Aug. 2010. Title of the paper "Estimation of system parameters in groundwater systems using inverse modeling: A case study" 7)The Ninth International Conference on "Hydro-Science and Engineering (ICHE 2010)"	International Conferences
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1)National Conference on "Ground water management Future challenges	National Conferences
	1)National Conference on "Ground water management Future challenges

		Title of paper "Estimation of Solute Transport or Systems by using G-N-M algorithm."		
	2)National Seminar on "Ground Water Management and Rural Development" Organized by Anjuman Engineering College for Men during March 9-10,2002. Title of paper "Estimation of Parameters in Ground Water Systems by Inverse Modeling."			
	3)Bharatha Rathna Sri. M. Vishveshwaraiah Memorial National Seminar on "Environment Pollution and Management" organized jointly by National Pollution Control and Environment Conservation Committee and Mangalore University on 05-06-2002. Title of paper "Estimation of solute Transport Parameters in Ground Water Systems by Inverse Modeling."			
	4)National Conference on "New Paradigms in Civil Engineering Practices" organized by Anjuman Engineering College for Men during Dec. 1-2, 1996. Title of paper "Salt Tolerance of crops and Salinity Control through Leaching."			
Projects Guided	UG	PG	Ph.D.	
	04	08+01 M.Sc. Research	Guiding 4	
Books Published /Patents/ IPR/ Monograms	"Estimation of system Parameters in Groundwater Systems" Book Published by International Publisher VDM Verlag Dr. Muller Germany. Book Published in USA,UK and Germany with ISBN:978-3-639-20736-1			
Professional Membership	ISTE, FIE			
Consultancy Services	Water supply Schemes, N and Bagalkot District of v	Ainor Irrigation Tank Filling Pro worth 200 Crores	oject of Bijapur	
Awards Grants Fetched	- Principal Investigator VTU Sponsored Research Fund 13.47 Lakhs. 2008- 2011			
Interaction With		Resource Person for FDP and STTP, VTU Member of board of Studies		
Professional		and Examination, Executive Council (EC) member VTU Belgaum,		
Institutions	Techanical Director KNNL(Karanataka Neeravari Nigam) Govt. of Karanataka and Techanical Director VJNL(Visvesvaraya Jala Nigam) Govt. of Karanataka			
Subjects Taught	Machines, Water Resource	zation Techniques, Hydraulics a ces, Operation Research, Engine faterials and Continuum Mecha	eering	

(b) Area of Interest:	a) Soft computing techniques and evolutionary algorithms	
	b) Hydrologic analysis and design of surface and Groundwater systems	
	c) Computational Hydraulics	
	d) Contaminant Transport Modeling and Inverse Modeling	
	e) Water quality Modeling	
	f) Pipeline and sewerage design	