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

Curriculum Vitae

Brief Profile: Born on 1976 in a village M.V.Kuppam, Vellore district and did schooling in Vellore. After obtaining graduate in Mathematics from Muthurangam Gov't Arts College, Vellore, I have joined M.Sc (Mathematics) in Anna University, Chennai. Completing Post graduate from Anna University, I have started my teaching profession in Aarupadaivedu Institute of Technology, Kancheepuram as a Lecturer (now the campus shifted to Mahapallipuram). After 18 months of teaching experience, moved to IIT Madras to pursue Ph.D degree under the guidance of Professor Satyajit Roy, Dept of Mathematics. Finished Ph.D in 2004, and worked in NUS, Singapore & VIT, Vellore and finally reached NIT, Trichy on Dec 2008.

1. Name : Dr. P. Saikrishnan

2. Designation : Associate Professor

3. Office Address : Department of Mathematics, NITT

4. Telephone (Direct) (Optional): 0431 250 3687

   Mobile (Optional): 9787877471

5. Email (Primary): psai@nitt.edu   Email: saikrishnan.p@gmail.com

6. Field(s) of Specialization: Boundary layer theory, Finite Element Analysis

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	NIT, Trichy	Dec 2011	Till now
Assistant Professor	NIT, Trichy	Dec 2008	Dec 2011
Senior Lecturer	VIT, Vellore	May 2006	Nov 2008
Post doctoral Fellow	University of WITS, Johanesburg, South Africa	April 2008	Nov 2008
Research Fellow	National University of Singapore, Singapore	Jan' 2004	Apr 2006
Lecturer	Aarupadai Vedu Institute of Technology, Paiyanoor, Mahapallipuram,Tamilnadu	Sep' 1998	Fen' 2000

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

Examination	Board / University	Year	Division/ Grade	Subjects

Ph.D	IIT Madras	2004		Mathematics
M.Sc	Anna University	1998	Distinction	Mathematics
B.Sc	University of Madras	1996	First class	Mathematics
H.Sc	Higher Education, Tamilnadu	1993	First Class	

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
NCC Officer	NITT	Mar' 2009	Dec 2015
Head, Department of Mathematics	NITT/Mathematics	Feb'2018	Jan 2020

10. Academic/Administrative Responsibilities outside the University : NA

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work
   (i)   Curriculum Development - NA
   (ii)   Courses taught at Postgraduate and Undergraduate levels
      1. Mathematics – I
      2. Mathematics - II
      3. Transforms and Partial Differential Equations
      4. Numerical Methods
      5. Probability, Statistics and Linear Programming
      6. Transforms, Special Functions and PDE
      7. Applied Mathematics
   (iii) Projects guided at Postgraduate level- 2 (M.Sc Project)
   (iv)   Other contributions- Served in various committees formed by institute/department

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Non-Uniform Mass Transfer into Unsteady Water Boundary Layer Flows	DST, New Delhi	Oct' 2010	Mar' 2014	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Ms. G. Revathi	Numerical Study of Non-Similar solutions for Unsteady Boundary layer Flow Problems with Surface Mass Transfer	Supervisor	2014
Mr. J. Rajakumar	Non-Similar solutions of steady MHD mixed convection boundary layer flows with slot mass transfer	Supervisor	2018
Ms. Samyuktha	Numerical Study of Non-Similar solutions for Mixed Convection Boundary Layer Flow Problems with Suction or Injection	Supervisor	2018

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

Date (s)	Title of Activity	Level of Event	Role	Event Organized by	Venue
14.07.2018	Refresher Course in Mathematics	National	Resource person	UGC-Human Resource Development Centre, Bharadidasan Unvisertiy, Trichy	Bharadidasan University, Khajamalai Campus, Trichy
18th June 2016	National Conference	National	Speaker	Ramanujan Mathematical Society, Chennai	National College, Trichy
28-29th April 2015	Conclave on Academic Reforms	Local	Participant	NITT	NITT

9-11th April,2015	International Conference on Advances in Materials, Manufacturing and Applications	International	Chaired a Session	Dept of Metallurgical and Material Engineering, NITT	NITT, India
15-16th Oct, 2012	International Conference on Mathematical, Computational and statistical Science and Engineering	International	Presenter	World Academy of Science, Engineering and Technology	Switzerland
6-7th Dec, 2012	National Conference on Frontiers in Applied Sciences and Computer Technology	National	Chaired a Session	Department of Mathematica & Dept of CA, NITT	NIT Trichy
26-28th May 2010	International Conference on Applied Mathematics and Scientific Computing	International	Presenter	World Academy of Science, Engineering and Technology	Tokya, Japan
11-13, Oct, 2008	International Conference on Applied Mathematics and Approximation Theory	International	Presenter	University of Memphis, Memphis, USA	University of Memphis, USA
18th Jan 2005	Joint symposium on scientific computing: Numerical Methods in Fluid and Solid Mechanics, System Control and Information Processing,	Local	Presenter	Centre for Industrial Mathematics (CIM)-Institute of High Performance Computing (IHPC),NUS, Singapore	NUS, Singapore

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

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

National Conference on Mathematical Analysis and Applications	National	December 19-20, 2019	Organizing Secretary	NITT
Short Term Course on Numerical Analysis using MATLAB	National	15-05-2019 to 19-05-2019	Coordinator	NITT

18. Invited Talks delivered

Topic	Date	Inviting Organization
Role of Mathematics in Engineering	26th Feb, 2015	Bharadidasan University College, Perambalur
Faculty development training programme	23rd June, 2013	University college of Engineering (Anna Univerisity), Arni, Tamilnadu
Short Term Programme on Numerical Methods for Fluid Dynamics	18th Dec, 2012	Indian Institute of Space Science and Technology, Thiruvanathapuram, Kerala

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Switzerland	15-16th Oct,2012	International conference on Mathematical, computational and statistical science and Engineering
Japan	26-28th May, 2010	International Conference on Applied Mathematics and Scientific Computing
USA	11-13th Oct. 2008	International conference on Applied Mathematics and Approximation Theory 2008

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	
A. Sahaya Jenifer, Saikrishnan Ponnaiah	Computational study: sinusoidal mass transfer into unsteady magnetohydrodynamic flow over a yawed cylinder	The Journal of Analysis,	DOI 10.1007/s41478-022-00462-6		2022	Scoups
Krishnan P.G.;Saikrishnan P.;Ravichandran V.	Boundedness of analytic functions in the unit disc using the theory of differential subordination	Asian-European Journal of Mathematics,	DOI: 10.1142/S1793557125017893		2022	Scopus
A. Sahaya Jenifer , P. Saikrishnan , Roland W. Lewis	Unsteady MHD Mixed Convection Flow of Water over a Sphere with Mass Transfer	J. Appl. Comput. Mech.,	935-943	7	2021	ESCI
A. Sahaya Jenifer, P. Saikrishnan, J. Rajakumar	STEADY MHD FLOW OVER A YAWED CYLINDER WITH MASS TRANSFER	Frontiers in Heat and Mass Transfer	DOI: 10.5098/hmt.17.4		2021	Scopus
Tripathi J.;Vasu B.;Dubey A.;Gorla R.S.R.;Murthy P.V.S.N.;Bég O.A.;Prasad V.R.;Saikrishnan P.	A review on recent advancements in the hemodynamics of nano-drug delivery systems	Nanoscience and Technology,	11	73-98	2020	ESCI

G. Revathi ., Ponnaiah Saikrishnan ., M. Revathy ., S. Jayanthi .,	Numerical study of darcy forchheimer unsteady mixed convection flow of nanofluid with an exponentially decreasing free-stream velocity distribution	Computational Thermal Sciences	12,	289-303	2020	ESCI
J.Rajakumar, P.Saikrishnan, A.Chamkha,Ali F.Al-Mudhaf	NON-SIMILAR SOLUTION OF STEADY MHD MIXED CONVECTION FLOW OVER A ROTATING SPHERE	Computational Thermal Sciences: An International Journal	8(6)	509-523	2016	Scopus
J.Rajakumar, P.Saikrishnan, A.Chamkha	Non-uniform mass transfer in MHD mixed convection flow of water over a sphere with variable viscosity and Prandtl number	International Journal of Numerical Methods for Heat & Fluid Flow	26	2235 - 2251	2016	SCIE
Revathi. G., P.Saikrishnan and A. Chamkha	Non-similar solutions for Unsteady flow over a yawed cylinder with non-uniform mass transfer through slot	Ain Shams Engineering journal	5	1199-1206	2014	Scopus
G.Revathi, P.Saikrishnan and A. Chamkha	Non-similar solution for unsteady water boundary layer flows over a sphere with non-uniform mass transfer	International Journal of Numerical Methods for Heat & Fluid Flow	23	1104-1116	2013	SCIE
G.Revathi, P.Saikrishnan	Effect of viscous dissipation and non-uniform double slot injection on a steady water boundary layer flow over rotating sphere with non-uniform mass transfer	International Journal of Engineering Science Advanced Computing and Bio-Technology	4(1)	19-31	2013	
P. Saikrishnan	Boundary Layer Flow Over a Yawed Cylinder with Variable Viscosity:Role of Non-uniform Double Slot Suction(Injection)	Int. J. numerical methods for Heat & Fluid flow ,	22,		2012	SCIE

P. Saikrishnan, S. Roy, H. S. Takhar and R. Ravindran	Role of thermally stratified medium on a free convection flow from a rotating sphere	Int. J. numerical methods for Heat & Fluid flow	20,	96-110	2010	SCIE
S. Roy, P. Saikrishnan and Bishun D. Pandey	Influence of Double Slot Injection (Suction) into Water Boundary Layer Flows over Sphere	Int. Communications in Heat and Mass Transfer	36	646-650	2009	SCIE
P. Saikrishnan, R. Ravindran and S. Roy	Role of non-uniform slot injection (suction) into laminar boundary layer flow in a diverging channel	Mathematical and computer Modelling	50	45-52	2009	Scop us
P. Saikrishnan, S. Roy, I. Mohammed Rizwan Sadiq and Bishun D. Pandey	Non-Uniform Slot Suction (Injection) Into Water Boundary Layer Flows Over a Cylinder	International Journal of Heat and Mass Transfer	52	894–898	(2009	SCI
S. Roy and Saikrishnan P	Non-uniform slot injection (suction) into laminar boundary layer ow for an exponentially decreasing free stream velocity distribution	Int. Communication in Heat and Mass Transfer	35	163-168	2008	SCIE
Huo-yuan Duan, Ping Lin, Saikrishnan P and Roger C. E. Tan,	A least squares finite element method for the magnetostatic problem in a multiply-connected Lipschitz domain	SIAM Journal on numerical analysis	45	2537–2563	2007	SCI
Huo-yuan Duan, Ping Lin, Saikrishnan P and Roger C. E. Tan	L2-Projected Least-Squares Finite Element Methods for The Velocity-Pressure-Vorticity First order System of The Stokes Equations with Velocity Boundary Conditions	SIAM Journal on numerical analysis	44	732-752,	2006.	SCI
S. Roy and P. Saikrishnan	Steady Laminar Water Boundary Layer Flow over a Yawed Cylinder	Int. J. of Applied Mechanics and Engineering	9	739-747,	2004.	Scop us
S. Roy and P. Saikrishnan	Non-Uniform slot injection (suction) into water boundary layer Flow past Yawed Cylinder	Int.J. of Engg. Sci.	42	2147-2157	2004	SCI

P. Saikrishnan and S.Roy	Non-uniform slot injection (Suction) into water boundary layers over i) a cylinder and ii) a sphere"	International Journal of Engineering Science,	41	1351 - 1365,	2003	SCI
S. Roy and P. Saikrishnan	Non-uniform slot injection (suction) into steady laminar water boundary layer flow over a rotating sphere"	International Journal of Heat and Mass transfer	46,	3389-3396,	2003	SCI
P. Saikrishnan and S. Roy	"Steady non-similar axi-symmetric water boundary layers with variable viscosity and Prandtl number"	Acta Mechanica,	157,	187-199,	2002	SCI

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Venue	Year
J Tripathi, B Vasu, RSR Gorla, PVSN Murthy, A Dubey, OA Beg, P Saikrishnan	Progress in nano-drug delivery systems and computational nano-pharmacodynamics	ICEMCI 2019-International Conference on Engineering, Mathematical and Computational Intelligence		Jabalpur Engineering College, Jabalpur	2019

N Samyuktha, P Saikrishnan	MHD MIXED CONVECTION FLOW OF NANOFLUID OVER A NONLINEAR STRETCHING SHEET WITH SUCTION OR INJECTION IN THE PRESENCE OF NON-UNIFORM HEAT SOURCE	ISHMT Digital Library	5-9	BITS Pilani, Hyderabad	2017
G.Revathi, P.Saikrishnan	Unsteady water boundary layer flow over a cylinder with non-uniform mass transfer	World Academy of Science, Engineering and Technology	70	Switzerland	2012
G. Revathi Saikrishnan P	Water boundary layer flow over rotating sphere with mass transfer	World Academy of Science, Engineering and Technology	65	Japan	2010
P.Saikrishnan. G. Revathi	Flow of viscous incompressible fluid flow in a diverging channel with non-uniform slot suction (injection)	Proceedings of an International Conference on Mathematical Sciences in honor of Professor A.M.Mathai		St Thomas College, Pala, Kerala, India	2011

(C) Books & Monographs : NA

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