

National Institute of Technology, Tiruchirappalli:

Performa for CV of Faculty/Staff Members

Curriculum Vitae

Brief Profile: Born on 14th June 1976 in a village M.V.Kuppam, Vellore district and did schooling in Vellore. After obtaining graduate in Mathematics from Muthuramangalathur 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, Johannesburg, 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 |
|-------------|--------------------|------|-----------------|----------|
|-------------|--------------------|------|-----------------|----------|

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|------|-----------------------------|------|-------------|-------------|
| 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 |

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- NA
- (iv) Other contributions- Served in various committees formed by institute/department

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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 or/ 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 |

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 |
|--------------------------------|---|----------------|-------------------|--|--------------------------|
| 18 th June 2016 | National Conference | National | Speaker | Ramanujan Mathematical Society, Chennai | National College, Trichy |
| 28-29 th April 2015 | Conclave on Academic Reforms | Local | Participant | NITT | NITT |
| 9-11 th April, 2015 | International Conference on Advances in Materials, Manufacturing and Applications | International | Chaired a Session | Dept of Metallurgical and Material Engineering, NITT | NITT, India |
| 15-16 th Oct, 2012 | International Conference on Mathematical, Computational and statistical Science and Engineering | International | Presenter | World Academy of Science, Engineering and Technology | Switzerland |
| 6-7 th Dec, 2012 | National Conference on Frontiers in Applied Sciences and | National | Chaired a Session | Department of Mathematica & Dept of CA, NITT | NIT Trichy |

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|---------------------------------|---|---------------|-----------|---|----------------------------|
| | Computer Technology | | | | |
| 26-28 th 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 |
| 18 th 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 |
|-------------------|---|----------|------|-------|
| | | | | |

18. Invited Talks delivered

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

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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 | 15-16 th Oct,2012 | International conference on Mathematical, computational and statistical science and Engineering |
| Japan | 26-28 th May, 2010 | International Conference on Applied Mathematics and Scientific Computing |
| USA | 11-13 th 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 |
|--|--|--|--------------|--------------|------|
| 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 |
| 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 |
| 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 | 23 | 1104-1116 | 2013 |

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| | | | | | |
|---|--|---|-----|-----------|-------|
| | | Heat & Fluid Flow | | | |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | 4 | 732-752, | 2006. |

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|---------------------------|--|---|------|--------------|-------|
| 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. |
| 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 |
| 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, | 4 | 1351 - 1365, | 2003 |
| 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 |
| P. Saikrishnan and S. Roy | "Steady non-similar axisymmetric water boundary layers with variable viscosity and Prandtl number" | Acta Mechanica, | 157, | 187-199, | 2002 |

(B) Conferences/Workshops/Symposia Proceedings

| Author(s) | Title of Abstract/ Paper | Title of the Proceedings | Page numbers | Venue | Year |
|---------------------------|---|--|--------------|--|------|
| 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 | Proceedings of an International Conference on Mathematical Sciences in honor | | St Thomas College, Pala, Kerala, India | 2011 |

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| | slot suction (injection) | of Professor A.M.Mathai | | | |
|--|-----------------------------|----------------------------|--|--|--|

(C) Books & Monographs : NA

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