

CURRICULUM VITAE

Dr. VIJAYARAGAVAN RAJARAM

Professor
Department of Mathematics
Thiruvalluvar University
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CAREER OBJECTIVE

To serve a professionally managed organization which will be able to use my resources to the maximum extent in achieving the goals of the organization and treat me as an asset of the organization while also contributing to my career and self-development.

ACADEMIC CREDENTIALS

Examination Passed (with major)	University / Institution	Year of passing / awarded	% of marks / class
Ph.D. [Mathematics]	Madras/Ramanujan Institute	March 2009	Received appreciation
M.Phil. [Mathematics]	Madras/Ramanujan Institute	August 1995	65% (I- class)
B.Ed. [Mathematics]	Annamalai University	December 1995	54% (II- class)
M.Sc. [Mathematics]	Madras / Sacred Heart college, Tirupattur	April 1993	70% (I- class)
B.Sc. [Mathematics]	Madras/ Govt. Arts college, Tiruvannamalai	March 1991	59.45% (II- class)
Higher secondary	Govt. Hr. Sec. School, Thandarampet	March 1988	55% (II- class)
SSLC.	Govt. Hr. Sec. School, Thandarampet	March 1986	65% (I- class)

DETAILS OF PH.D. DEGREE

- Month and Year of **Ph.D.** Degree Awarded: 09.03.2009
- Title of the Thesis: **“Some Results in Normed Linear Spaces and Linear 2-Normed Spaces”**

M.PHIL.

- Title of the Dissertation: **“n-inner Product Spaces”**.

AREAS OF INTEREST

- Approximation Theory
- Fluid Dynamics
- Bio-Fluid Mechanics
- Operation Research
- Wavelet Transform
- Cryptography and Network Security

- Convective Heat and Mass Transfer in MHD flows
- Flows through Porous Medium
- Heat and Mass Transfer in nano fluid
- Heat and Mass Transfer in Dusty fluids
- Heat and Mass Transfer in Dusty Nano-fluids
- Ordinary and Partial Differential equations
- Numerical Analysis
- Computational Fluid Dynamics

TEACHING EXPERIENCE

Positions held	Name of the Institutions	Duration		Years of Experience
		From	To	
Lecturer	St. Peters Engineering college, Avadi, Chennai-54	04.9.1996	24.10.1999	3 Years & 1 Month
Lecturer	Vellore Engineering College, Vellore – 632 014	27.10.1999	04.06.2004	4 Years & 8 Months
Sr. Lecturer	VIT University, Vellore - 632 014	05.06.2004	19.03.2009	4 Years & 9 Months
Associate Professor	VIT University, Vellore 632 014	20.03.2009	22.07.2015	6 Years & 4 Months
Associate Professor	Thiruvalluvar University, Vellore – 632 115	23.07.2015	22.07.2018	3 Years
Professor	Thiruvalluvar University, Vellore – 632 115	23.07.2018	Till date	

RESEARCH GUIDANCE

- Completed **SEVEN** and Doing **SIX** students for Ph.D, Thiruvalluvar University, Vellore, Tamil Nadu, India.
- Guided **SIXTEEN** students for M.Phil, Thiruvalluvar University, Vellore, Tamil Nadu, India.
- Guided **SEVENTEEN** students for M.Sc, Thiruvalluvar University, Vellore, Tamil Nadu, India.

COURSE HANDLED

U.G. (B.E./B.Tech)

- Engineering Mathematics (all papers)
- Numerical Methods
- Resource Management Techniques
- Operation Research
- Discrete Mathematics
- Probability Theory & Random Process
- Probability, Statistics & Reliability Engineering

P.G (MCA/MBA/M.Tech.)

- Computer oriented statistical methods
- Computer oriented Numerical methods
- Mathematical Foundation for computer science
- Quantitative methods in Business
- Applied Mathematics
- Advanced Numerical Methods
- Higher Mathematics

STUDENTS PROJECTS GUIDED

- Guided a project entitled **“Cross Diffusion Effects on Chemically Reacting Radiative Micro polar Fluid Flow past a Stretching/Shrinking Sheet”**, for M.Phil. Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a project entitled **“Heat and Mass Transfer in Dissipative Casson Fluid flow due to Stretching Sheet With Thermophoretic and Thermal Radiation Effects”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a project entitled **“Heat Transfer Characteristics of MHD Sisko Nanofluid Flow Past a Bidirectional Stretching Surface”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“MHD Stagnation-Point Flow towards a Stretching / Shrinking Sheet in the Presence of Nonlinear Thermal Radiation”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Flow and Heat transfer behavior of Nano fluid over a cone suspended with the Nimonic-80A Nano particles”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Non-Uniform Heat source / sink effect on unsteady liquid film flow of Magneto hydrodynamic Casson and Carreau fluid”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Heat and Mass Transfer on Inclined Magnetic Field MHD Polar Fluid Flow over an Infinite Horizontal Plate with Dufour Effect and Heat Source/Sink”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Aligned Magnetic Field on Unsteady MHD Flow past a Vertical Plate with Chemical Reaction and Dufour Effects”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Unsteady Free Convective Flow in MHD Polar Fluid with Dufour and Chemical Reaction Effects Past a Semi-Infinite Vertical Plate”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Perturbation Analysis of MHD Casson Flow of a Visco-Elastic Fluid Past an Infinite Vertical Porous Plate with Thermal Radiation and Chemical Reaction Effects”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.

- Guided a Project entitled **“Heat and Mass Transfer on an Unsteady MHD flow of Jeffery fluid over a radiating aligned permeable moving plate embedded in a porous medium with influence of the Dufour effect and Heat source/sink”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Heat and Mass Transfer on an Unsteady MHD mixed convective Casson fluid flow past a moving vertical porous plate with effects of the Dufour and Chemical reaction”**, for M.Phil Students, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Buoyancy and Chemical reaction Effects on MHD Mixed Convection Heat and Mass Transfer in a Porous Medium with Thermal Radiation”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Chemically Reacting Dusty Viscoelastic Fluid Flow in an Irregular Channel with Convective Boundary”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Influence of Chemical Reaction on Unsteady MHD Mixed Convective Flow over a Moving Vertical Porous Plate”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Thermal Radiation Effects on MHD Convective Flow over a Plate in a Porous Medium by Perturbation Technique”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Unsteady MHD Free Convective Heat and Mass Transfer Flow Past a Semi-Infinite Vertical Permeable Moving Plate with Heat Absorption, Radiation, Chemical Reaction and Soret Effects”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Effects of Radiation and Chemical Reaction on MHD Flow Past an Oscillating Inclined Porous Plate with Variable Temperature and Mass Diffusion”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled **“Soret Effect Due to Mixed Convection on Unsteady Magneto hydrodynamic Flow Past a Semi Infinite Vertical Permeable Moving Plate in Presence of Thermal Radiation, Heat Absorption and Homogeneous Chemical Reaction”**, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.

- Guided a Project entitled “**MHD Convective Heat and Mass Transfer Flow of a Newtonian Fluid Past a Vertical Porous Plate with Chemical Reaction, Radiation Absorption and Thermal Diffusion**”, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.
- Guided a Project entitled “**Perturbation Analysis of MHD Mixed Convective Slip Flow in a Permeable Vertical Plate with Joule Heating and Soret Effect**”, for M.Sc Student, Thiruvalluvar University, Vellore, Tamil Nadu.

GUEST LECTURES / CHIEF GUEST

- A Chief Guest and Delivered an invited talk on “**Applications of Mathematics**”, at Dr.M.G.R.Chockalingam Arts College, Arni on 16.10.2018.
- Delivered a special lecture on “**Applications of Mathematics**”, at Arignar Anna Government Arts College, Cheyyar on 16th March 2018.
- Delivered a special lecture on “**Applications of Fuzzy Graphs and Integral Transforms**”, at PG & Research Department of Mathematics, Sun Arts and Science College, Thiruvannamalai on 6th March 2018.
- Delivered a special lecture on “**Applications of Transformations**”, at Post Graduate & Research Department of Mathematics, Voorhees College, Vellore.
- Delivered a talk on “**Wavelet Transform**”, at Arignar Anna Government Arts College, Cheyyar.
- Given Guest lecture to the students of Adhiparasakthi Science and Engineering college, Kalavai.
- Resource person of refreshment course for school teachers in Vellore district.
- Chief Guest for inauguration of Mathematics Association and delivered a special lecture to the students of Voorhees College, Vellore.
- Delivered a special lecture on “**Applications of Integral Transformations**”, at Shanmuga Industries Arts and Science College, Tiruvannamalai.
- Chief Guest in 55th Annual Sports Day celebration at C. Abdul Hakeem College, Melvisharam.
- Chief Guest in Annual Sports Day celebration at Sri Bharathi Women's Arts and Science College, Arni.

ADMINISTRATIVE AND ACADEMIC RELATED ACTIVITIES

Positions held	Name of the Institution	Duration		Years of Experience
		From	To	
Asst. Chief – Supdt	St. Peters Engineering college	April 1997	May 1999	2 Years
Asst. Chief – Supdt	VIT University	2010	2011	1 Year
Chief- Supdt	VIT University	2011	2012	1 Year
Asst. Chief- Supdt	VIT University	2012	2013	1 Year
Chief- Supdt of Examinations	Thiruvalluvar University	June 2016	December 2016	6 Month
Champ Officer (Valuation)	Thiruvalluvar University	Nov/Dec-2019		6 Month
Director of Physical Education	Thiruvalluvar University	June 2019	Till date	
Controller of Examinations	Thiruvalluvar University	February 2020	Till date	
Director of Centre for Research	Thiruvalluvar University	July 2021	Till date	

AWARD (OR) PRIZE / APPRECIATIONS

Name	Institution	Purpose of Award
Research Awards 2012	VIT University	Publication in Peer reviewed journals
Research Awards 2013	VIT University	Publication in Peer reviewed journals
Certificate of Appreciation	VIT University	Publication in Peer reviewed journals
Honoring Certificate	IOSR Journals	Recognition
Honoring Certificate	IRJET Journals	Recognition
Certificate of Publication	JXAT Journal	Scopus Journal
Certificate of Publication	JXAT Journal	Scopus Journal

MEMBERSHIPS/LIFE MEMBERSHIPS

- Dwaraka Doss Goverdhan Doss Vaishnav College (Board of studies) member.
- Life member by the council of the Indian Society of Theoretical and Applied Mechanics (ISTAM).
- University Nominees for Academic Council of Muthurangam Government Arts College (Autonomous), Vellore from 23.02.2017 to 23.02.2019.
- University Nominees for Board of studies (member), Sacred Heart College, Tripattur.

EXAMINER FOR PH.D., PUBLIC VIVA-VOCE

Students Name	College Name
Ms. B. SANGEETHA	K.N. Government Arts College for Women-Thanjavur
Ms. S. DHARANI	Bharathiar University, Coimbatore
Ms. A. USHA	K.N. Government Arts College for Women-Thanjavur
Mr. S. RAJAKUMAR	Government Arts College (Autonomous), Kumbakonam.
Ms. N. ANANDHI	K.N. Government Arts College for Women-Thanjavur
Ms. L. RAMYA	Bharathiar University, Coimbatore
Ms. N. SELVAMALAR	K.N. Government Arts College for Women-Thanjavur
Ms. P. KAVITHA	Nehru Memorial College (Autonomous), Puthanampatti, Tiruchirappalli.
Ms. S. JEEVITHA	K.N. Government Arts College for Women-Thanjavur

RESEARCH PAPERS IN REFEREED NATIONAL/INTERNATIONAL JOURNALS

- **R Vijayaragavan**, N Kanimozhi and S Karthikeyan, “**Effects of Hall current and Viscous dissipation on MHD Free Convective Cass on fluid over a semi-infinite aligned vertical plate**”, Journal of Xi'an University of Architecture & Technology, Volume XIII, Issue 6, 2021. pp 737-751.
- **R Vijayaragavan**, M Ramesh and S Karthikeyan, “**Heat and Mass Transfer Investigation on MHD Cass on Fluid Flow past an Inclined Porous Plate in the Effects of Dufour and Chemical Reaction**”, Journal of Xi'an University of Architecture & Technology, Volume XIII, Issue 6, 2021. pp 860-873.
- **R.Vijayaragavan**, V. Bharathi and J. Prakash, “**Influence of Electro osmosis Mechanism and Chemical Reaction on Convective Flow Over an Exponentially Accelerated Plate**”, Int. J. Appl. Comput. Math **7**, 124 (2021).
- **R.Vijayaragavan**, V.Bharathiand J.Prakash,“**Impact of electro osmotic flow on a Cass on fluid driven by chemical reaction and convective boundary conditions**”, Heat transfer, 50(5); 4993-5019(2021).
- **R.Vijayaragavan**, V.Bharathi and J.Prakash,“**A study of electro-osmotic and magneto hybrid nanoliquid flow via radiative heat transfer past an exponentially accelerated plate**”,Heat transfer, 50(5);4937-4960(2021).
- **R.Vijayaragavan**, V.Bharathiand J.Prakash,“**Heat and mass transfer effect of a Magneto hydrodynamic Casson fluid flow in the presence of inclined plate**”, Indian Journal of Pure & Applied Physic.59 (1), 28-39(2021).
- V. Bharathi, **R. Vijayaragavan**andJ.Prakash,“**Comparative analysis of Cu/blood and Cu–CuO/ blood nano fluids on a peristaltic flow governed by an asymmetric channel**”, Heat Transfer, 49 (8) 4923-4944(2020).
- **R.Vijayaragavan**, A. Kalimulla and S. Sharief Basha, “**Dominating Laplacian Energy in Products of Intuitionistic Fuzzy Graphs**”, Advances in Biochemical Engineering/Biotechnology, (2019) 603–612.
- **R. Vijayaragavan**, A. Kalimulla and S. Sharief Basha, “**Virus Spread in an Instuitionalistic Fuzzy Network Based on Laplacian Energy**”, International Journal of Engineering, Science and Mathematics, 8 (6); 2019.
- **R. Vijayaragavan** and M. Angeline Kavitha, “**Simultaneous Solutions of Three Dimensional MHD Rotating Flow of Non-Newtonian Fluid over an Elongated Surface**”,

International Journal for Research in Applied Science & Engineering Technology, 7(5); 2019.

- **R. Vijayaragavan** and V. Bharathi, “**The Dufour and Thermal Diffusion Effects of an Unsteady Magneto hydrodynamic Free Convection Casson Fluid Flow past an Exponentially Accelerated Plate via Laplace Transform**”, International Journal for Research in Engineering Application & Management (IJREAM); Vol-05, Issue-02, May 2019.
- **R. Vijayaragavan**, S. Karthikeyan and P. Premalatha, “**Heat and Mass Transfer on an Unsteady MHD mixed convective Casson fluid flow past a moving vertical porous plate with effects of the Dufour and Chemical reaction** ”,International Journal of Mathematics Trends and Technology, 65(2); 2019: 117-129.
- **R. Vijayaragavan**, S. Karthikeyan and V. Jothi, “**Heat and Mass Transfer on an Unsteady MHD floe of Jeffery fluid over a radiating aligned permeable moving plate embedded in a porous medium with influence of the Dufour effect and Heat source/sink**”, Journal of Global Research in Mathematical Archives, 6(3); 2019: 5-23.
- **R. Vijayaragavan**, A. Kalimulla and S. Sharief Basha, “**Dominating Laplacian Energy in Product of Instuitionistic Fuzzy Graphs**”, Applied Mathematics and Scientific Computing Trends in Mathematics, 2019: 603-612.https://doi.org/10.1007/978-3-030-01123-9_60.
- **R. Vijayaragavan** andS. Karthikeyan, “**Heat and Mass Transfer in Magneto hydrodynamic Maxwell Fluid Flow through a Porous Medium over a stretching/shrinking sheet with Dufour and Soret Effects**”, International Journal of Research and Analytical Review, 5(4); 2018: 389-406.
- **R. Vijayaragavan** and S. Karthikeyan, “**Dual Solutions Of Heat and Mass Transfer in MHD Radiative Casson Fluid Flow with Dufour Effect and Chemical Reaction**”, Journal of Emerging Technologies and Innovative Research, 5(11); 2018: 62-78.
- Kalimulla, **R. Vijayaragavan** and S. Sharief Basha, “**Dominating Energy of Operations on Instuitionistic Fuzzy Graphs**”, International Journal of Engineering and Technology, 7(4.10); 2018: 328-335.
- **R. Vijayaragavan** andM. Angeline Kavitha, “**Heat and Mass Transfer in MHD Casson Fluid Flow Past an Infinite Vertical Porous Plate with Heat Source/Sink**”, Journal of Emerging Technologies and Innovative Research, 5(11); 2018: 18-29.
- **R. Vijayaragavan**, S. Karthikeyan and S. Parthiban, “**Aligned Magnetic Field on Unsteady MHD Flow Past a Vertical Plate with Chemical Reaction and Dufour Effects**”, Journal of Emerging Technologies and Innovative Research, 5(11); 2018: 79-90.

- **R. Vijayaragavan, S. Karthikeyan and N. Pownkumar, “Unsteady Free Convection Flow in MHD Polar Fluid Flow with Dufour and Chemical Reaction Effects Past a Semi-Infinite Vertical Plate”, Journal of Emerging Technologies and Innovative Research, 5(11); 2018: 30-46.**
- **R. Vijayaragavan, S. Karthikeyan and A. Sumithra, “Perturbation Analysis of MHD Casson Flow of a Visco-Elastic Fluid Past an Infinite Vertical Porous Plate with Thermal Radiation and Chemical Reaction Effects”, Journal of Emerging Technologies and Innovative Research, 5(11); 2018: 1-17.**
- **R. Vijayaragavan, S. Karthikeyan and R. Elayaraja, “Heat and Mass Transfer on Inclined Magnetic Field MHD Polar Fluid Flow Over an Infinite Horizontal Plate with Dufour Effect and Heat Source/Sink”, Journal of Emerging Technologies and Innovative Research, 5(11); 2018: 47-61.**
- **R. Vijayaragavan and V. Bharathi, “Influence of Thermal Diffusion Effects on Unsteady MHD Free Convection Flow Past an Exponentially Accelerated Inclined Plate with Ramped Wall Temperature”, International Journal of Research in Advent Technology, 6(10); 2018: 2617-2632.**
- **R. Vijayaragavan and K. Vengatesan, “Unsteady MHD Free Convection Aligned Magnetic Effect On Non-Newtonian Fluid Flow Past a Vertical Porous Plate with Dufour Effect and Chemical Reaction”, Journal of Emerging Technologies and Innovative Research, 5(9); 2018: 67-77.**
- **R. Vijayaragavan and M. Angeline Kavitha, “Thermal Radiation and Dufour Effects on Unsteady MHD Casson Fluid Flow over Vertical Oscillating Plate”, Journal of Emerging Technologies and Innovative Research, 5(7); 2018: 775-784.**
- **R. Vijayaragavan and V. Bharathi, “Chemical Reaction and Thermal Diffusion Effects On Unsteady MHD Free Convection With Exponentially Accelerated Inclined Plate”, Journal of Emerging Technologies and Innovative Research, 5(7); 2018: 554-566.**
- **R. Vijayaragavan and M. Angeline Kavitha, “Heat and Mass Transfer in Unsteady MHD Casson Fluid Flow Past an Inclined Plate with Thermal Radiation and Heat source/sink”, Research Journal of Engineering and Technology, 9(2); 2018: 214-223.**
- **R. Vijayaragavan and S. Karthikeyan, “Hall Current Effect on Chemically Reacting MHD Flow with Dufour Effect and Thermal Radiation”, Asian Journal of Applied Science and Technology 2(2), 2018, pp. 228-245.**

- **R. Vijayaragavan** and K. Vengatesan, “**Heat and Mass Transfer in Radiative Casson Fluid Flow Caused by a Vertical Plate with Variable Magnetic Field Effect**”, Journal of Global Research in Mathematics Archives 5(4), 2018, pp.48-66.
- **R. Vijayaragavan** and S. Karthikeyan, “**Influence of Magnetic Induction on Chemically Reacting Radiative Flow over a Vertical Porous Plate**”, IOSR Journal of Engineering 8(2), 2018, pp.32-49.
- **R. Vijayaragavan** and S. Karthikeyan, “**Heat and Mass Transfer in Radiative Fluid Flow Caused by a Vertical Plate with Variable Magnetic Field Effect**”, Advances in Physics Theories and Applications 67, 2017, pp. 6-23.
- John Michael Rassias, Pasupathi Narasimman and **Rajaram Vijayaragavan**, “**Fundamental Stabilities of Generalized Composite Functional Equations in Non-Archimedean Spaces**”, Mathematica 59 (82), No 1-2, 2017, pp. 93-98.
- **R.Vijayaragavan** and S.Karthikeyan,“**Joule heating and thermal radiation effects on chemically reacting Casson fluid past a vertical plate with variable magnetic field**”, Research Journal of Engineering and Technology, 8(4); 2017: 1-12.
- **R. Vijayaragavan**, “**A Complex Variable Method for Secondary Flow in A Slowly Rotating Straight Elliptic Pipe**”, Journal of Computational Mathematica, 1(2), (2017);55-70.
- M Sathishkumar, N Sandeep, B Rushikumar and **R Vijayaragavan**, “**Effect of non-linear thermal radiation on MHD Sisko nanofluid flow over a bidirectional stretchingsurface**”, IOP Conf. Series: Material Science and Engineering, 263 (2017) 062023.
- G Kumaran, N Sandeep and **R Vijayaragavan**,“**Melting heat transfer in Magnetohydrodynamic radiative Williamson fluid flow with non-uniform heat source/sink**”,IOP Conf. Series: Material Science and Engineering 263 (2017) 062022.
- Rushikumar, G. Sreedhara Rao, **R. Vijayaragavan** and R. Sivaraj,“**Thermophoresis effects on viscoelastic non-Darcy flow over a cone**”, (2017); 1-8.
- I.L.Animasau, J.Prakash, **R.Vijayaragavan** and N.Sandeep,“**Stagnation Flow of Nano fluid Embedded with Dust Particles Over an Inclined Stretching Sheet with Induced Magnetic Field and Suction**”, Journal of Nano fluids, 6 (2017) : 1-10.
- **R. Vijayaragavan** and M. Angeline Kavitha, “**Chemically reacting radiative Casson fluid flow over a vertical plate in the presence of a heat source / sink and aligned magnetic field**”, Chemical and Process Engineering Research, 49 (2017) : 14-31.

- **R.Vijayaragavan** and A. Kalimulla, “**Dominating energy in some products of intuitionistic fuzzy graphs**”, International Journal of Advanced Research in Computer Science, 8 (6); (2017): 12-20.
- **R. Vijayaragavan**, N. Sandeep and A. Thilagavathi, “**Flow and Heat transfer behavior of Nano fluid over a cone suspended with the Nimonic-80A Nano particles**”, International Journal of Pharmacy & Technology, 9(1); (2017): 28778-28791.
- **R. Vijayaragavan**, N. Sandeep and R. Padmavathi, “**Non-Uniform Heat source / sink effect on unsteady liquid film flow of Magneto hydrodynamic Casson and Carreau fluid**”, International Journal of Pharmacy & Technology, 9(1); (2017): 28792-28803.
- **R. Vijayaragavan**, A. Kalimulla and S. Sharief Basha, “**Dominating Energy in product of intuitionistic Fuzzy Graphs**”, Journal of Global Pharma Technology, 6 (9);(2017): 58-71.
- Ramaswamy Rajasankar, **Rajaram Vijayaragavan**, “**Organic Acids and Exo-Polysaccharide Mediated Zinc Solubilization by Soil Bacteria and their Plant Growth Promoting Properties**”, Research Journal of Pharmaceutical, Biological and Chemical Science, 8(3); (2017): 1545-1557.
- **R. Vijayaragavan** and N.Sandeep, “**A similarity analysis of Magneto hydrodynamic Nano-fluid Flow over Two Different Geometries**”, International Journal of Pharmacy & Technology, 8(4); (2016): 21981-21997.
- **R.Vijayaragavan** and N.Sandeep, “**Numerical Investigation of Nano-fluid Flow over a Vertical Cone and A Flat Plate: A Manufacturing Application**”, Research Journal of Pharmacy and Technology, 9 (12); (2016): 1-9.
- **R.Vijayaragavan**, “**Proxy Blind Signature Scheme Based on Non-commutative Division Semi-rings**”, Research Journal of Pharmacy and Technology, 9 (7); (2016):913-915.
- **R.Vijayaragavan**, “**Authentication scheme using division semi-rings**”, International Research Journal of Engineering and Technology, 3 (6); (2016): 2837-2838.
- **R.Vijayaragavan**, “**Authenticated key agreement in division semi-rings**”, International Research Journal of Engineering and Technology, 3 (6); (2016): 2835-2836.
- **R.Vijayaragavan**, “**A Proxy Signature Scheme Based On Non-Commutative Semi-Rings**”, International Journal of Pharmacy & Technology, 8 (2); (2016): 11986-11990.
- A.Jasmine Benazir, R.Sivaraj, M.M.Rashidi and **R.Vijayaragavan**, “**Magnetohydrodynamic mixed convective flow of Casson fluid in a channel with non-uniform heat source / sink**”, Global Journal of Pure and Applied Mathematics, January (2016): 1-8.

- M. Angeline Kavitha and **R.Vijayaragavan**, “**Magneto hydrodynamic Radiative Cass on Fluid Flow over a Semi-Infinite Vertical Plate: An Analytical Approach**”, The International Institute for Science, Technology and Education, 60 (2016): 9-24.
- **R.Vijayaragavan**,“**Magneto hydrodynamic Radiative Cass on Fluid Flow over aStretching Sheet with Heat Source / Sink**”, The International Institute for Science, Technology and education, 55 (2016): 13-23.
- **R. Vijayaragavan**, “**Thermophoresis and Brownian motion effects on chemicallyreacting Cass on fluid flow past a nonlinear stretching sheet**”, The International Institute for Science, Technology and education, 43 (2016) : 1-13.
- **R.Vijayaragavan**, “**Transpiration effects on stagnation flow towards a stretching sheet with induced magnetic field**”, The International Institute for Science, Technology and Education, 43 (2016): 14-25.
- N. Sandeep, B.Rushi Kumar and **R.Vijayaragavan**,“**A review on some theoretical and experimentalinvestigations on Nano-fluids**”,International Journal of Pharmacy & Technology, 8 (4); (2016): 4865-4882.
- **R.Vijayaragavan**, N.Sandeep and S.Karthikeyan, “**Cross diffusion effects on chemically reacting radiative Micro polar fluid flow past a stretching / shrinking sheet**”, Global Journal of Pure and Applied Mathematics, 12(3); (2016): 370-376.
- **R.Vijayaragavan**, N.Sandeep and K.Nithya, “**Heat transfer characteristics of MHD Sisko Nano fluid flow past a bidirectional stretching surface**”, Global Journal of Pure and Applied Mathematics, 12(3); (2016): 263-269.
- **R.Vijayaragavan**, N.Sandeep and S.Kanchana,“**Heat and mass transfer in dissipative Casson fluid flow due to stretching sheet with thermophoretic and thermal radiation effects**”, Global Journal of Pure and Applied Mathematics, 12(3); (2016): 256-262.
- **R.Vijayaragavan**, N.Sandeep and S.Amaladevi, “**MHD stagnation-point flow toward sa stretching / shrinking sheet in the presence of nonlinear thermal radiation**”, Global Journal of Pure and Applied Mathematics, 12(3); (2016): 270-276.
- Vinothini S, Chandra Segar Thirumalai and **Vijayaragavan R**, “**Analyzing the performance of AFRA with its traditional routing algorithms**”, International Research Journal of Engineering and Technology (IRJET); May-2015.
- Vinothini S, Chandra Segar Thirumalai and **Vijayaragavan R**, “**An efficient AFRA using an Intelligent Fuzzy Repertory Table technique**”, International Research Journal of Engineering and Technology(IRJET); May-2015.

- Vinothini S, Chandra Segar Thirumalai, **Vijayaragavan R** and Senthilkumar M,“**A Cubic based Set Associative Cache encoded mapping**”, International Research Journal of Engineering and Technology(IRJET) , May-2015.
- **R.Vijayaragavan**, “**Best Approximation in Real Linear 2-Normed Spaces**”, IOSR Journal of Mathematics, June-2013.
- **R.Vijayaragavan**, “**Strongly unique best simulations approximation in linear 2-Normed spaces**”, Malaya Journal of Mathematic, Oct-2013.
- R.Saravanan and **R.Vijayaragavan**, “**Existence and characterization of farthest points in Normed linear spaces**”, International Journal of Pure and Applied Mathematics, July-2013.
- **R.Vijayaragavan**, “**Strongly unique best co-approximation in linear 2-Normed spaces**”, International Journal of Engineering Research & Technology, June-2013.
- T.Chandrasegar and **R.Vijayaragavan**,“**Pell’s RSA key generation and its security analysis**”, IEEE Explore, July-2013.
- **R.Vijayaragavan**,“**Strongly unique best simulations co-approximation in linear 2-Normed spaces**”, IOSR Journal of mathematics, Jun-2013.
- S.Elumalai and **R.Vijayaragavan**, “**Best Simultaneous Approximation In Linear 2-Normed Spaces**”, International Journal of Mathematical Science and Engineering Applications, July-2012.
- S.Elumalai and **R.Vijayaragavan**, “**Characterizations of best approximation in linear 2-Normed spaces**”, General Mathematics, Oct-2009.
- **R.Vijayaragavan**, “**Strongly Unique Best Approximation in Linear 2-Normed Spaces**”, Indian Journal of Mathematics, Jan-2009.
- S.Elumalai and **R.Vijayaragavan**,“**Best simultaneous approximation in linear 2-Normedspaces**”, General Mathematics, Oct-2008.
- **R.Vijayaragavan**, “**Best simultaneous co-approximation in linear 2-Normed spaces**”, International Journal of Mathematical Science and Engineering Applications, Nov-2008.
- S.Elumalai and **R.Vijayaragavan**,“**Uniform Hausdorff Strong Uniqueness in Linear 2-Normed spaces**”,Acta Ciencia Indica, Nov-2007.
- S.Elumalai and **R.Vijayaragavan**,“**Farthest Points on Suns in Linear 2- Normed Spaces**”, News Bull. Cal. Math. Society, Oct-2007.
- S.Elumalai and **R.Vijayaragavan**,“**Farthest Points in Normed Linear Spaces**”, GeneralMathematics, April-2006.
- S.Jayakumar, Manimalar and **R.Vijayaragavan**,“**Job Network Analysis under Centralized and Decentralized Control**”, Industrial Engineering Journal, Aug-2003.

LIST OF PAPERS PRESENTED IN INTERNATIONAL/NATIONAL CONFERENCES

- Presented a paper entitled “**Hall current effect on chemically reacting MHD Casson fluid flow with Dufour effect and thermal radiation**” at National Conference on, Discrete Mathematical & Its Applications held at Sacred Heart College (Autonomous), Tirupattur, during 9th – 10th February, 2018.
- Presented a paper entitled “**Heat and Mass Transfer in MHD Casson fluid flow over an inclined plate with thermal radiation and heat source**” at National Conference on, Discrete Mathematical & Its Applications held at Sacred Heart College (Autonomous), Tirupattur, during 9th – 10th February, 2018.
- Presented a paper entitled “**Heat Transfer Characteristics of Mixed Convection Flow of a Casson Ferrofluid due to Cone**” at International Conference on Computational, Mathematical & Modelling held at Sri Padmavati Mahila Visvidyalayam (Women’s University), Tirupati, during 25th – 26th March, 2016.
- Presented a paper entitled “**Cross diffusion effects on chemically reacting radiative Micro polar fluid flow past a stretching / shrinking sheet**” held at NCPAM-2016, VIT-University, Vellore.
- Presented a paper entitled “**Heat transfer characteristics of MHD Sisko nano fluid flow past a bidirectional stretching surface**” held at NCPAM-2016, VIT-University, Vellore.
- Presented a paper entitled “**Heat and mass transfer in dissipative Cass on fluid flow due to stretching sheet with thermophoretic and thermal radiation effects**” held at NCPAM-2016, VIT-University, Vellore.
- Presented a paper entitled “**MHD stagnation-point flow towards a stretching / shrinking sheet in the presence of nonlinear thermal radiation**” held at NCPAM-2016, VIT-University, Vellore.

LIST OF CONFERENCES/WORK SHOPS/FACULTY DEVELOPMENT PROGRAMMES ATTENDED

- Participated and Chaired session in the Faculty Development Program on National Conference on **Discrete Mathematics and Its Application** organized by Department of Mathematics, Sacred Heart College, Tirupattur during 9-10 February 2018.
- Attended and Participated in the Faculty Development Program on Science Academie's Lecture workshop on **Emerging Trends in Mathematical Modeling in Fluid Dynamics** (ETMMF-2017) organized by Department of Mathematics, Thiruvalluvar University, Vellore on 4th December 2017.
- Attended and Participated in the Faculty Development Program on **International Conference on Advances in Mathematics Sciences (ICAMS)** organized by the Department of Mathematics, School of Advanced Sciences, VIT University, Vellore on 1-3 December 2017.
- Attended and Participated in the Faculty Development Program on **National Conference on Applied Mathematics** organized by Holy Cross Arts & Science College for Women, Tirupattur on 27th September 2017.
- Attended and Participated in the Faculty Development Program on **14th International Conference on Science, Engineering and Technology** organized by VIT University, Vellore on 2-3 May 2017.
- Attended and Participated in the Faculty Development Program on **Applications of Integral Transforms**, Organized by PG & Research Department of Mathematics, Shanmuga Industries Arts & Science College, Tiruvannamalai on 13th March 2017.
- Attended and Participated in the Faculty Development Program on **Applied Mathematics and Computation** organized by Thiruvalluvar University, Vellore on 27-28 February 2017.
- Attended and Participated in the Faculty Development Program on **Applications of Differential Equations** organized by VIT University, Vellore on 23rd February 2017.
- Attended and Participated in the Faculty Development Program on **Recent Advances in Bio resource Technology** organized by the Department of Biotechnology, Thiruvalluvar University, Vellore on 15th-17th February 2017.
- Attended and Participated in the Faculty Development Program on **Two Days Seminar for Research Scholars (Faculty of Science and Technology)**, Gulbarga University, Kalaburagi on 9th and 10th February 2017.

- Attended and Participated in the Faculty Development Program on **Advancement and Automation of Accreditation for Higher education in India** organized by Integrated Intelligent Research (IIR) & Common Wealth Science and Technology Academy for Research (CSTAR), India on 4th February 2017.
- Attended and Participated in the Faculty Development Program on **Mathematics for smart Life** organized by VIT University, Vellore on 28th January 2017.
- Attended and Participated in the Faculty Development Program on **Mathematical Applications in Engineering and Technology** organized by PG and Research Department of Mathematics Sacred Heart College, Tirupattur on 27th and 28th January 2017.
- Attended and Participated in the Faculty Development Program on **Applications of Transforms and Partial Differential Equations** organized by C.Abdul Hakeem College, Melvisharam on 19th January 2017.
- Attended and Participated in the Faculty Development Program on **104th Indian Science Congress** held at S. V. University, Tirupati on 3-7 January 2017.
- Attended and Participated in the Faculty Development Program on **Mathematical Science & Engineering Applications** organized by Baba Institute of Technology & Sciences, Visakhapatnam on 23rd-25th December 2016.
- Attended and Presented a paper entitled **Wavelet Transform** in the Faculty Development Program on **Recent Trends in Mathematical Sciences (RTMS-2016)** organized by PG & Research Department of Mathematics, Arignar Anna Government Arts College, Cheyyar on 14th October 2016.
- Attended and Participated in the Faculty Development Program on “**Mat lab and Its Applications**” organized by Thiruvalluvar University, Vellore on 19th September 2016.
- Attended and Participated in the Faculty Development Program on **Intel HPC Code Modernization**” organized by SITE, VIT University & WIPRO, Bangalore on 11th April 2016.
- Attended and presented a paper entitled **Heat Transfer Characteristics of Mixed Convection flow of a Cass on Ferro-fluid due to cone** in the Faculty Development Program on **Computational, Mathematical and Biological Modeling** organized by Departments of Computer Science, Applied Mathematics & Sericulture, Sri Padmavati Mahila Visvadyalayam (Women’s University), Tirupati on 25th-26th March 2016.
- Attended and Participated in the Faculty Development Program on **Theoretical and Computational Fluid Dynamics** organized by Sri Venkateswara University, Tirupati on 21st and 22nd March 2016.

- Attended and Participated in the Faculty Development Program on **Pure and applied Mathematics** “organized by VIT University, Vellore on 12th March 2016.
- Attended and Participated in the Faculty Development Program on **Recent Trends in Mathematics and Its applications**” organized by SRM University, Chennai on 26th and 27th February 2016.
- Attended and Participated in the Faculty Development Program on **Discrete Mathematical and Its Applications**” organized by PG and Research Department of Mathematics Sacred Heart College, Tirupattur on 29th and 30th January 2016.
- Attended and Participated in the Faculty Development Program on “**Computational Fluid Dynamics**” organized by VIT University, Vellore on 24 & 26 January 2016.
- Attended and Participated in the Faculty Development Program on “**Mathematical Sciences**” organized by Sri Venkateswara University, Tirupati on 13-15 July 2015.
- Attended and Participated in the Faculty Development Program on “**Developing Funded Research Project Opportunities and Options for Starters**” VIT University on April-2015.
- Attended and Participated in the Faculty Development Program on **Homogony Analysis Method** VIT University on April-2015.
- Attended and Participated in the Faculty Development Program on **Latex for Technical Presentation** VIT University on April-2015.
- Attended and Participated in the School of Advanced Science on **VIT Mathematical Meet** on Feb-2015.
- Attended and Participated in the Faculty Development Program on **Impact of anxiety and depression on personality management** VIT University on Feb-2015.
- Attended and Participated in the Faculty Development Program on **Pharmacogenomics-Focus on Pharmakinetics** VIT University on Feb-2015.
- Attended and Participated in the Faculty Development Program on **Internationalization of Higher Education and Quality Assurance-Trends and Challenges** VIT University on Jan-2015.
- Attended and Participated in the Faculty Development Program on **II International conference on Application of Fluid dynamics** VIT University on July-2014.
- Attended and Participated in the Faculty Development Program on **mat lab** VIT University on July-2014.
- Attended and Participated in the Faculty Development Program on **28th National Science** VIT University on Feb-2014.

- Attended and Participated in the Faculty Development Program on **VIT Mathematical Meet** on Jan-2014.
- Attended and Participated in the Faculty Development Program on **Teaching Mathematics** VIT University on July-2013.
- Attended and Participated in the Faculty Development Program on **Effective Proctoring** on April-2013.
- Attended and Participated in the Faculty Development Program on **VIT Mathematical Meet** on Feb-2013.
- Attended and Participated in the Faculty Development Program on **Probability and Statistics for Engineering** VIT University on July-2012.
- Attended and Participated in the Faculty Development Program on “**VIT mission10xians meet 2012**” on March-2012.
- Attended and Participated in the Faculty Development Program on **VIT Mathematical Meet** on Jan-2012.
- Attended and Participated in the Fluid Dynamics division on **Seminar on Advanced Fluid Dynamics** VIT University on Sep-2011.
- Attended and Participated in the VIT Alumni Association on “**Training Programme for Government Secondary & Higher Secondary School Teacher of Vellore District**” on Aug-2011.
- Attended and Participated in the Faculty Development Program on **Mathematics and Statistics for Biologists** VIT University on July 2011.
- Attended and Participated in the Theoretical Computer Science and Language Translator Division on **Writing Research articles using Latex** VIT University on April-2011.
- Attended and Participated in the Faculty Development Program on “**Overview of Mathematical for Education and Research** VIT University on Oct-2010.
- Attended and Participated in the Faculty Development Program on **Global Trends in Higher Education and Challenges** VIT University on Nov-2009.
- Attended and Participated in the Faculty Development Program on **Wavelet analysis** VIT University on Oct-2009.
- Attended and Participated in the Faculty Development Program on **Class room management** VIT University on Oct-2009.
- Attended and Participated in the Faculty Development Program on **Understanding self and others** VIT University on Sep-2009.

- Attended and Participated in the School of Science and Humanities, VIT University on “**Basic Engineering Mathematics, Discrete mathematics and graph theory**” on July 2009.
- Attended and Participated in the Faculty Development Program on “**Faculty development Programme**” VIT University on Feb-2009.
- Attended and Participated in the Faculty Development Program on “**Skill Improvement Programme**” VIT University on April-2008.
- Attended and Participated in the Faculty Development Program on “**Educational Workshop VIT University**” on Nov-2003.
- Attended and Participated in the Faculty Development Program on “**84th Annual conference of the Indian Economy Association** ” VIT University on Dec-2001.
- Attended and Participated in the Faculty Development Program on “**Mathematical methods and applications VIT University**” on Dec-2001.
- Attended and Participated in the Faculty Development Program on “**45th Congress of ISTAM**” VIT University on Dec-2000.
- Attended and Participated in the Faculty Development Program on “**recent trends in mathematical analysis**” VIT University on Dec-2000.
- Attended and Participated in the Faculty Development Program on “**Finite Element Method**” VIT University on Nov-2000.
- Attended and Participated in the Faculty Development Program on “**Faculty empowerment Programme**” VIT University on Aug-2000.
- Attended and Participated in the Faculty Development Program on “**Slowly steady rotation of a porous spherical shell in a Visco-Elastic liquid**” Madras University on June-2000.

PERSONAL STRENGTHS

- Positive attitude
- Hardworking
- Open to new ideas
- Good listener and learner

PERSONAL SKILLS

- Good communication skills.
- Good command over Matlab Programming.

TECHNICAL SKILLS

- Operating systems: DOS, Windows 95, 98, 2000, Windows XP.
- **Packages: Microsoft word, Word Star, Word Perfect, Microsoft Excel-97.**

REFERENCES

- 1. Prof. P.Veeramani**
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PERSONAL PROFILE

Name : Dr .R.VIJAYARAGAVAN
Father's Name : I.RAJARAM
Date of Birth : 03.04.1971
Marital status : Married
Languages known : English, Telugu and Tamil
Nationality : Indian (Hindu)
Address : No. 9, First Street, Madhi Nagar Extension, Gandhi Nagar Post,
Vellore - 632 006.

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Serkkadu

Date: 12-07-2021

Signature



(R.VIJAYARAGAVAN)