

BIO - DATA

Name : Dr.KE.Sathappan

Qualification : M.Sc., M.Phil., B.Ed., PGDCA, Ph.D.,

Designation : Associate Professor

Department : Mathematics

Date of Birth : 30.07.1975

Teaching Experience: 26 years

Address for Communication:

Official	Residence
PG & Research Department of Mathematics, Alagappa Govt. Arts College, Karaikudi – 630 003. Sivaganga Dt. TamilNadu.	“Thiyagarajar Illam” No. 22/4, Meyyappan Ambalam Street, New Town, Karaikudi – 630 001. Sivaganga Dt. TamilNadu.

Contact : 9444173696 (WhatsApp), 9080062704

Email : sathappan@agacollege.in

Area of Specialization : Fluid Dynamics & Fuzzy algebra

Research Topic: Free Convection Flow past an exponentially accelerated vertical plate

M.Phil/ Ph.D Research Guidance:

	Completed	On going
M.Phil.,	20	-
Ph.D	4	-

External Examiner for Ph.D Viva - Voce : - 2

LIST OF RESEARCH PUBLICATIONS

- 1) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan , 'Convective flow past an exponentially accelerated vertical plate with heat flux and variable mass diffusion', International Journal of Computational Intelligence Research and Applications, Vol.2, No.1, pp.29-35, 2008.
- 2) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan , 'Heat and Mass transfer effects on exponentially accelerated vertical plate with uniform magnetic field', Annals of Faculty of Engineering Hunedoara Journal of Engineering, Tome (VI), pp.188- 193, 2008.
- 3) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan , 'Mass transfer effects on exponentially accelerated isothermal vertical plate', International Journal of Applied Mathematics and Mechanics, Vol.4, No.6, pp.19-25, 2008.
- 4) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan, 'Heat transfer effects on flow past an exponentially accelerated vertical plate with variable temperature', Theoretical and Applied Mechanics, Vol.35, No.4, pp.323-331, 2008.
- 5) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan, 'Flow past an exponentially accelerated vertical plate with heat and mass flux', International Journal of Applied Mechanics and Engineering, Vol.13, No.4, pp.979-986, 2008.
- 6) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan , 'MHD Flow past an exponentially accelerated infinite vertical plate with variable temperature', The global Journal of Applied Mathematics and Mathematical Sciences (GJ-AMMS), Vol.1, No. 2, pp.163-168, 2008.
- 7) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan, 'Unsteady flow past an exponentially accelerated infinite isothermal vertical plate with uniform mass flux', International Journal of Mathematical Science , Vol.8, No.1- 2, pp.143-149, 2009.
- 8) **KE.Sathappan** , R. Muthucumaraswamy, R. Natarajan , 'Radiation effects on flow past an exponentially accelerated isothermal vertical plate with mass

- flux', International Journal of Applied Mechanics and Engineering, Vol.14, No.4, pp.1029-1038, 2009.
- 9) R. Muthucumaraswamy, **KE.Sathappan**, R. Natarajan , 'Free convective flow past an exponentially accelerated vertical plate with variable temperature and uniform mass flux', International Journal of Fluid Mechanics, Vol.1, No.2, pp.89-95, 2009.
- 10) Muthucumaraswamy, **KE.Sathappan**, R. Natarajan 'Diffusion and heat transfer effects on exponentially accelerated vertical plate with variable temperature', Thermal Science, Vol.14, No.1, pp.73 -77, 2010.
- 11) **KE.Sathappan** , R. Muthucumaraswamy, R. Natarajan, 'The study of flow past an exponentially accelerated vertical plate with variable temperature and mass diffusion, Annals of Faculty of Engineering Hunedoara Journal of Engineering, Tome (VIII), pp.35-38, 2010.
- 12) **KE.Sathappan**, R.Muthucumaraswamy, ' Radiation effects on exponentially accelerated vertical plate with uniform mass diffusion', International Journal of Automotive and Mechanical Engineering, Vol.3, pp. 341-349, 2011.
- 13) **KE.Sathappan** , R. Muthucumaraswamy ' Numerical study of Hydromagnetic effects on flow past an oscillating semi-infinite isothermal vertical plate with uniform mass diffusion in the presence of thermal radiation', Annals of Faculty of Engineering Hunedoara Journal of Engineering, Tome (IX), pp.151-156, 2011.
- 14) **KE.Sathappan** , R. Muthucumaraswamy,'MHD Effects on Exponentially accelerated vertical Plate with variable temperature and mass diffusion', International Journal of Applied Mechanics and Engineering, Vol.17, No.1, pp.289-297, 2012.
- 15) B. Yasodara, **KE. Sathappan** , 'Bipolar – valued multi fuzzy subsemirings of a semiring, International of Mathematical Archieve – 6(9), 75-80, 2015.
- 16) B. Yasodara, **KE. Sathappan** ,' Homomorphism and Anti – Homomorphism of Bipolar – valued multi fuzzy subsemirings of a semiring, Bulletin of Mathematics and Statistic Research, Vol. 3, No. 3, 229-233, 2015.

- 17) K.R.Sasireka, **K.E.Sathappan** and B.Chellappa , ‘Intuitionistic Fuzzy L – filters, International Journal of Mathematics and its applications, Vol. 4, Issue 2-c, 171-178, 2016.
- 18) K.R.Sasireka, **K.E.Sathappan**, ‘Anti-Homomorphism of an Intuitionistic Fuzzy L-Ring Ideals’ International Journal of Mathematics Trends and Technology, 52(7), ISSN: 2231-5373., 2017.
- 19) T. Iswarya, M,Suganyaveni, L.Rajendran, **KE.Sathappan**, ‘Analytical Solutions of simultaneous Linear Differential Equations in Chemical Kinetics And Homotopy Perturbation Method, International Journal Of Modern Engineering Research, Vol. 7, Iss. 7, 2017.
- 20) K.R.Sasireka, **K.E.Sathappan**, ‘Homomorphism of an Intuitionistic Fuzzy ‘l’ -ring Ideals, Journal of Global Research in Mathematical Archieves, Vol. 5, No. 3, 69-83, ISSN: 2320-5822, 2018.
- 21) **KE.Sathappan**, R. Sumathi, ‘L-Fuzzy Bi-ideal of Ring’ - International Journal of Mathematics and its Application (IJMAA) Int. J. Math. And Appl., 6(3), 237–242 ISSN: 2347-1557, 2018.
- 22) **KE.Sathappan** ,R. Sumathi, ‘Intuitionistic L-Fuzzy Bi-ideals of a Ring- International Journal of Mathematics Trends and Technology (IJMTT)Volume 60 Number 3, 2018.
- 23) T. Iswarya, L.Rajendran, **KE.Sathappan**, ‘ Mathematical Modeling of the Dehydrogenase Catalyzed Hexanol Oxidation with Coenzyme Regeneration by NADH Oxidase’ International Journal of Research, ISSN No. 236-6124, Vol.No.7, Issue IX, 2018.
- 24) T. Iswarya, L.Rajendran, **KE.Sathappan**, ‘Modelling of the of Non- linear Biotransformation Process’, International Journal of Mathematics and its applications, No. 6(1-C), 567-577, ISSN:2347-1557, 2018.
- 25) T. Iswarya, L.Rajendran, **KE.Sathappan**, ‘ Mathematical modeling of biodegradation of sulphide in biogas by biofilm on salak fruit seeds’, Pramana Research Journal, Vol.No. 9, Issue 4 ISSN No. 2249- 2976 , 2019.

- 26) **KE.Sathappan** , R. Sumathi , ‘Regularity Concept of L-Fuzzy Bi-Ideals in Near-Ring- Pramana Research Journal Volume 9, Issue 6, ISSN NO: 2249-2976, 2019.
- 27) R. Sumathi, **KE.Sathappan** “On Intuitionistic L-fuzzy Bi-ideals of Semigroup" "- Journal of Discrete Mathematical sciences and Cryptography, ISSN2169-0065Vol(2019),No.5,pp.801-807.
- 28) R. Sumathi, **KE.Sathappan**, “ Magnified Translation of L-Fuzzy Bi-ideals of a Ring”, American International Journal of Research in Science Technology ,Engineering & MathematicsISSN: 2328-3580, 2019.
- 29) T. Iswarya, J. Visuvam, L.Rajendran, **KE.Sathappan**, ‘ Mathematical Modelling of setero selective synthesis of (1S, 2S) – 1- phenylpropane -1,2- diol by cell free extract of lactobacillus brevis, Test Engineering and Management, 82 (2020) 15593-15605, ISSN: 0193 - 4120.
- 30) KR.Sasireka, **KE.Sathappan**, “Charecterization of Intuitionistic Fuzzy Sub l-ring”, South East Asian J. of Mathematics sciences Vol.16, No.1(A), pp.07-14.ISSN:2582-0850,2020.
- 31) KR.Sasireka, **KE.Sathappan**, “Operations of Intuitionistic Fuzzy l-ring Ideals”, Advance in Mathematics: Scientific Journal, no.3, 1293-1301, ISSN:1857-8365, 2020.

Conferences/Seminars Attended:

S.No	Name of the Conference/Seminar	Sponsoring Agency	Place & Date
1.	Seminar on “TOPICS IN ALGEBRA”	UGC	Raja Doraisingam Govt. Arts College, Sivaganga. 14 and 15 October 2004
2.	Seminar on “TRENDS IN OPERATIONS RESEARCH AND APPLICATIONS”	Anna University	Anna University, Chennai. 23 rd December 2008
3	National seminar on “DIFFERENTIAL EQUATION”	Alagappa University	Alagappa University, Karaikudi. 6-7 March 2009
4	Seminar on” SELECTED TOPICS IN COMPUTATIONAL FLUID DYNAMICS”	Sri Venkateswara College of Engineering	SriVenkateswara College of Engineering, Sriperumbudur. 9 th October 2010

5	“National seminar on Fuzzy Algebra”	UGC –SERO, Hyderabad	Govt. Arts College, Paramakudi. 10, 11 – April - 2014
6	Short term programme on “RECENT TRENDS AND APPLICATIONS OF PROBILITY, RANDOM PROCESS AND TECHNIQUES”	AICTE- ISTE	Mepco Schlenk Engineering College, Sivakasi, November 01 to 05, 2004
7	National Workshop on “QUEUEING THEORY and RELIABILITY ENGINEERING”	SriVenkateswara College of Engineering, Sriperumbudur	SriVenkateswara College of Engineering, Sriperumbudur. 20-21 January 2006
8	International Conference on “Discrete and Computational Mathematics”	UGC	Department of Mathematics, Gandhigram Rural Institute-Deemed University, Gandhigram, February 2017
9	International Conference on “Algebra and Discrete Mathematics-ICDAM 2018”	UGC	Directorate of Distance Education, Madurai Kamaraj University, January 2018.
10	International Conference on “Algebra and Applied Mathematics”	UGC	Department of Mathematics, Hajee Karutha Rowthar Howdia College, Uthamapalayam, January 2018.
11	International Conference on Mathematical Computer Engineering-ICMCE-2020	AICTE	Department of Mathematics, Vellore Institute of Technology, February 2020