Name : Dr.T.Mahalakshmi

Staff ID : RCAS05873

Designation: Assistant Professor

Department: Mathematics

Experience: Teaching Exp.: 12 Yrs 3 Months;

Qualification: M.Sc., M.Phil., PGDCA., Ph. D., PDF(Taiwan)

Specialization: Computational Fluid Dynamics

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ACADEMICS

Degree	Branch	Institution / University	Year of Completion
PDF	Computational Fluid Dynamics	National Cheng Kung University	2020
Ph.D.	Computational Fluid Dynamics	Bharathiar University	2018
M.Phil.	Mathematics	ematics Kongunadu Arts and Science College, Coimbatore	
M.Sc.	Mathematics	Kongunadu Arts and Science College, Coimbatore	2002

Diploma /	Specialization	Institution / University / Agency	Year of
Certification		Name	Completion
Post Graduate Diploma in Computer Applications	VB, LINUX, C++, RDBMS,OS, DS	Bharathiar University	2009

RESEARCH AND PUBLICATIONS

Journal Publications

- T. Mahalakshmi, N. Nithyadevi, H.F. Oztop, and Nidal Abu-Hamdeh, "MHD mixed convective heat transfer in a lid-driven enclosure filled with Ag-water nanofluid with center heater", Int. J. Mech. Sci., 142-143 (2018) 407-419. Impact Factor: 9.4(Q1).
- <u>https://doi.org/10.1016/j.ijmecsci.2018.05.008</u>
- T. Mahalakshmi, N. Nithyadevi, H.F. Oztop, and Nidal Abu-Hamdeh, "Natural Convective Ag-Water Nanofluid Flow Inside Enclosure with Center Heater and Bottom Heat Source", Chinese Journal of Physics 56 (2018) 1497-1507. Impact Factor: 4.6(Q2)
- https://doi.org/10.1016/j.cjph.2018.06.006

- **T. Mahalakshmi**, N. Nithyadevi and Ruey-Jen Yang. "Magnetohydrodynamic effect on thermal transport by silver nanofluid flow in enclosure with central and lower heat sources", Heat Transfer Engineering.,43 (2022) 1755 1768, Impact Factor: 1.6(Q2). https://doi.org/10.1080/01457632.2021.2009226
- T. Mahalakshmi and N. Nithyadevi, Numerical Study of Natural Convection Heat Transfer in a Square Enclosure with Inside Heater Utilizing Ag-water Nanofluid, J. of Nanofluids, 6 (2017) 1096-1110, Impact Factor: 2.2 (Q2) https://doi.org/10.1166/jon.2017.1399
- T. Mahalakshmi, A numerical analysis on MHD mixed convective hybrid nanofluid flow inside enclosure with heat sources, Journal of Nanofluids, 12 (2023) 942-954, Impact Factor: 2.2 (Q2)
- http://dx.doi.org/10.1166/jon.2023.1975
- **T. Mahalakshmi,** Ruey-Jen Yang, N. Nithyadevi and H.F. Oztop., "MHD convection Flow of Ag-water nanofluid in Inclined Enclosure with Center Heater", Journal of Mechanics, Vol.37, (2020) 13-27, Impact Factor: 1.8 (Q2) https://doi.org/10.1093/jom/ufaa003
- **T. Mahalakshmi,** N. Nithyadevi, H.F. Oztop, "Numerical study of MHD mixed convective flow in a lid-driven enclosure filled with nanofluid saturated porous medium with center heater", 23(2019) 1861-1873, Thermal Science, Impact Factor: 1.27(Q4) https://doi.org/10.2298/TSCI171105313N
- **T. Mahalakshmi**, N. Nithyadevi and C. Udhaya Shankar, "MHD natural convective Agwater nanofluid flow in an enclosure having internal heat generation with center heater and bottom heat source", Int. J. of Nanoparticles, 9 (2017) 244-264. https://dx.doi.org/10.1504/IJNP.2017.089449
- **T. Mahalakshmi** and N. Nithyadevi, "A numerical study on MHD natural convective heat transfer in an Ag-water nanofluid filled enclosure with center heater", Journal of the Korean Society for Industrial and Applied Mathematics, 21 (2017) 225-244. Impact Factor: 0.5(Q4)
- http://dx.doi.org/10.12941/jksiam.2017.21.225
- **T. Mahalakshmi**, Ruey-Jen Yang and V.Krishnaveni, "MHD mixed convection in double-wall-driven enclosure containing Ag-water nanofluid and center heater," Journal of Applied Nonlinear Dynamics, 13(1) (2024)49-63. Impact Factor: 0.6 (Q4) <u>DOI-10.5890-JAND.2024.03.005</u>

PRESENTATIONS

	State Level	National	International
Conference	-	3	4

PARTICIPATION

	State Level	National	International
Conference	-	3	4
Seminar	-	7	-
Workshop	1	-	-
FDP/PDP	4	3	-

Events Organized (Seminar/Conference/Workshop)

1. Organising Secretary at International Virtual Conference on Emerging Trends in Applications of Mathematics- ICETAM -2021 on Sep 16 & 17-2021.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

- 1. Delivered **Invited Talk** and acted as **Session Chair** in International Conference on Composite Materials for Environment Protection and remediation on 2-3 July 2024 at Chemical Research Society of India, Bihar, India.
- 2. Delivered **Invited talk** and acted as **Session Chair** in 3 rd International Conference on Recent Trends in Materials Science & Devices on 23-26 March 2025.