RESUME

Name	:	**Dr. S. SERALATHAN**
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Designation	:	Associate Professor
Degree (highest degree with year of graduation)	:	M.Tech., Ph.D.
Experience	:	Industry : 7 Academic : 18
Specialization	:	Turbomachinery
Research Area	:	Vertical Axis Wind Turbine, Gas Turbine Blade Cooling - Film Cooling, Leading Edge Blade Cooling, Centrifugal Compressor – Partial Vaned Diffuser, Rotating Vaneless Diffuser, Axial Compressor – Tip Clearance Losses

Publication details:

a) Journal Paper

1. Kannan, E., **Seralathan Sivamani**, Roychowdhury, D.G., Micha Premkumar, T., Hariram, V., "Improvement in Film Cooling Effectiveness using Single and Double Rows of Holes with Adverse Compound Angle Orientations", ASME Journal of Thermal Science and Engineering Applications, Vol.11 (2), 2019, art. no. 021014, 19 pages. DOI: 10.1115/1.4041937
2. **Seralathan, S.,** Roy Chowdhury, D. G., **"**Numerical Studies on the Effect of Diffuser Rotational Speeds on Low Pressure Ratio Centrifugal Compressor Performance", Journal of Applied Fluid Mechanics, Vol. 10, No.3, 2017, pp. 785-799. DOI: 10.18869/acadpub.jafm.73.238.26563
3. **Seralathan, S**., Roy Chowdhury, D. G., "Performance Enhancement of a Low-Pressure Ratio Centrifugal Compressor Stage with a Rotating Vaneless Diffuser by Impeller Disk Extended Shrouds", Journal of Applied Fluid Mechanics, Vol. 9, No.6, 2016, pp. 2933-2947
4. **Seralathan Sivamani,** Murugan, M., Hariram Venkatesan, Micha Premkumar, T., "Effect of Flow Rates on Segmental Baffle Shell and Tube Heat Exchanger using CuO-W Nanofluids", World Journal of Engineering, Vol. 17, Issue 1, 2020, pp. 115-126. DOI: 10.1108/WJE-10-2019-0285
5. **Sivamani Seralathan**, Lokesh Reddy, B.V., Yeswanth Yadav, M., Bharath Kumar, P., Micha Premkumar, T., Hariram, V., "Modelling and Development of Passive Permanent Magnetic Bearing for a Small Cross Flow Vertical Axis Wind Turbine", International Journal of Renewable Energy Research, Vol. 8, No. 4, 2018, pp.1868-1880.
6. **Seralathan Sivamani**, Micha Premkumar, T., Mohammed Sohail, Mohan, T., Hariram, V., "Experimental Data on Load Test and Performance Parameters of a LENZ type Vertical Axis Wind Turbine in Open Environment Condition", Data in Brief, Vol. 15, 2017, pp. 1035-1042. DOI: 10.1016/j.dib.2017.10.071

(b) Conference Paper

1. **Seralathan Sivamani**, Micha Premkumar Thomai, Rian Leevinson Jayakumar, Basireddy Venkata Lokesh Reddy, Hariram Venkatesan, "Experimental and Numerical Assessment of Cross Flow Vertical Axis Wind Turbine", Proceedings of the ASME 2019 Gas Turbine India Conference, GTINDIA2019, ASME International Gas Turbine Institute, Chennai, India, 5th-6th December 2019, Paper ID: GTINDIA2019-2427.

2. Micha Premkumar Thomai, Lasoodawanki Kharsati, Nakandhrakumar Rama Samy, **Seralathan Sivamani**, Hariram Venkatesan, "Experimental Analysis of Vortex Induced Vibration in the Bladeless Small Wind Turbine", Proceedings of the ASME 2019 Gas Turbine India Conference, GTINDIA2019, ASME International Gas Turbine Institute, Chennai, India, 5th-6th December 2019, Paper ID: GTINDIA2019-2484.

3. **Seralathan Sivamani**, Roychowdury Dibyakanti Ghosh, "Numerical Investigation to Assess the Performance of Free Rotating Vaneless Diffuser for a Centrifugal Compressor Stage", Proceedings of the 5th ASME Gas Turbine India Conference, GTINDIA2017, ASME International Gas Turbine Institute, Bangalore, India, 7th-8th December 2017, Paper ID: GTIndia2017-4704.

4. **Seralathan Sivamani**, Chaina Ram, Micha Premkumar Thomai, Hariram Venkatesan, "Numerical Analysis of Jet Impingement Cooling using Converging Conical Hole for Blade Leading Edge", Proceedings of the 5th ASME Gas Turbine India Conference, GTINDIA2017, ASME International Gas Turbine Institute, Bangalore, India, 7th-8th December 2017, Paper ID: GTIndia2017-4632.

5. Micha Premkumar Thomai, Mohan Thangaraj, Silambarasan Palanivel, **Seralathan Sivamani**, "Numerical Simulation of Cluster of Small Vertical Axis Wind Turbine to Develop a Wind Tree for Low Wind Speed Regime", Proceedings of the 5th ASME Gas Turbine India Conference, GTINDIA2017, ASME International Gas Turbine Institute, Bangalore, India, 7th-8th December 2017, Paper ID: GTIndia2017-4675.

6. **Seralathan Seralathan**, Roy Chowdury Dibyakanti Ghosh, "Performance Enhancements of the Centrifugal Compressor Stage with a Rotating Vaneless Difffuser – A Numerical Study", Proceedings of the ASME 2014 Gas Turbine India Conference, GTINDIA2014, ASME International Gas Turbine Institute, New Delhi, India, 15th-17th December 2014, Paper ID: GTINDIA2014-8179.

Funded project details: NIL

Consultancy project details: NIL

Conference attended/organized:

1. ASME 2019 Gas Turbine India Conference, GTINDIA2019, ASME International Gas Turbine Institute, Chennai, India
2. ASME 2017 Gas Turbine India Conference, GTINDIA2017, ASME International Gas Turbine Institute, Bangalore, India
3. ASME 2014 Gas Turbine India Conference, GTINDIA2014, ASME International Gas Turbine Institute, New Delhi, India.

Workshop attended/ organized:

1. ATAL-FDP on Energy Engineering, August 2020
2. ATAL-FDP on Alternate Fuels, September 2020

Seminar attended/organized:

1. “CFD in Advanced Engineering Applications” organized by HITS during November 2019.