



Associate Professor - Senior Scale & Group Leader - Control Systems
Young Scientist Scheme Grant Awardee (2013 - 2017) - DST, Govt. of India
Co-PI, ISRO Research Project on Quadrotor-(2019-2021)
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Dr.I.Thirunavukkarasu born on 18th August 1981 at Kanchipuram. Presently working as an Associate Professor-Senior Scale in the Dept. of Instrumentation and Control, Manipal Institute of Technology, Manipal Academy of Higher Education (**Institute of Eminence, status given by MHRD, G.O.I**), Karnataka. He has 15+ years of teaching experience and 9 years of research experience. He completed his diploma with honors in Electronics and Communication Engg. in 1999 and joined as a lateral entry candidate for B.E (Instrumentation and Control Engg) and completed the degree in 2002 from **Madras University**, Chennai. Obtained his M.E (Process Control and Instrumentation) from **Annamalai University**, Chidambaram in 2005 followed by the Ph.D degree in Robust Process Control from **Manipal Academy of Higher Education, Manipal**, Karnataka in the year April 2012.

Joined as a researcher for six months (Oct 2020-March 2021) to work under Prof.Radhakanth Padhi, Dept. of Aerospace **Indian Institute of Science, Bangalore (NIRF-01 & QS Ranking 185)** to work in the area of advanced nonlinear control algorithms. Also selected for the short term fellowship from INAE to work in the prestigious institute **IISc Bangalore** on Micro Aerial Vehicle under Prof.Radhakant Padhi.

During 2018, he served as a Visiting Professor in Dept. of Chemical Engg, **Ryerson University, Canada (QS Ranking 800-1000)** for three months.

He is the recipient of **DST Fast Track grant for young scientist from the Government of India for the period 2013-2016**. Presently working on a sponsored research from **ISRO, Govt. of India** towards the Nonlinear Control design for Quadrotor during 2019-2021.

Also, he received the Post-Doctoral research and publication grant from MAHE towards “Nonlinear Control Design(SMC) for a Non-Linear Process” during Jan 2013-Dec 2014.

Received research seed money grant from MAHE(IoE) towards the establishment of coolant flow station control for a nonlinear batch reactor in Advanced Process Control Lab in MIT, Manipal.

He evaluated more than 25 PhD engineering thesis from various universities including state and deemed universities.

He has also organized two international conferences, workshops, FDP in the area of Control System and Process Control domain with the grants from various research organizations like ISRO, DRDO, ONGC, AICTE & National Instruments.

Three PhD students have completed their degree in the area of Process Control in the year 2018(2 students) and 2020(1 student). Another one PhD students submitted their thesis in the area of Process Control in Sep. 2020. Presently two

full time PhD students are working in the area of Nonlinear Controller design for Quadrotor and Micro Aerial Vehicle.

He has published his research articles in peer reviewed SCI publication i.e, American Chemical Society and few others in Elsevier Materials Science, MATEC Web of Science, Springer Lecture Series, etc.

He is also member in various professional bodies: Senior member in IEEE, ACS Member, ACDOS member. ISTE, SSI, ISSE, IE(I) and American Chemical Society.

He has participated and presented his research findings in various scientific conferences held worldwide including USA, Canada, Germany, Italy, London (2), Bahrain, Oman, Singapore, Malaysia (2), Thailand (2), Dubai and France.

He is happily married to Dr.S.Shanmuga Priya and blessed with two sons Kailash and Namasivaya.