



P Senthilkumaran

Dr P Senthilkumaran is currently working as a full Professor in the Department of Physics, Indian Institute of Technology Delhi (IIT Delhi, India). He joined IIT Delhi as an Assistant Professor of Physics in 2002 and became Associate Professor in 2008 and Professor in 2012. He worked as Assistant Professor between 1996 and 2001 and as a lecturer between 1995 and 1996 in IIT Guwahati (IITG). Prior to joining IITG, he had been a senior project officer since September 1993 at IIT Madras from where he received his Ph.D in 1995. He is a recipient of Young Scientist Award from Indian National Science Academy (INSA), New Delhi and Alexander von Humboldt fellowship, Germany in 1997 and 2001, respectively. He was in ICTP, Trieste, Italy in 1997 for a month. He was in University of Strathclyde, Glasgow, United Kingdom on Royal Society-London and INSA exchange fellowship in 1999 and in Friedrich Schiller University of Jena, Germany during 2001-2002 on Humboldt fellowship.

He has been teaching undergraduate and postgraduate courses on Basic Physics, Electromagnetic theory, Optics and Lasers, Fourier optics, Holography and its applications, Optical metrology and Optical instrumentation. His research interests are Optical beam shaping, Optical phase and polarization singularities, Berry and Pancharatnam topological phases, Fiber optics, Holography, Non-destructive testing techniques, Shear interferometry, Talbot interferometry, Speckle metrology and Non-linear optics. He has been active in executing research projects funded by various funding agencies such as Department of Science and Technology, India (DST), Council of Scientific and Industrial Research (CSIR), Indian National Science Academy (INSA) and Defence Research and Development Organization (DRDO) as Principal investigator (PI)/Co-PI. The number of project handled by him/being handled is sixteen, with an estimated cost of 174 million Indian rupees..

He has authored/coauthored more than one hundred and thirty research publications. So far he has supervised twelve Ph D students and 30 M Tech project students. He along with Prof Jan Masajada, Wroclaw University of Technology, Poland and Prof Shunichi Sato, Tohoku University, Japan had brought out a special issue on Singular Optics in 2012 in the International Journal of Optics. He has authored two books - one entitled "Singularities in Physics and Engineering" and the other "Orbital angular momentum states – Propagation through atmospheric turbulence" both published by IOP Publishing, Bristol, UK in 2018 and 2021. Professor Senthilkumaran has also been an editorial board member of International Journal of Optics since 2013 and associate editor of Optical Engineering since 2020. Recently he has joined Asian Journal of Physics as an editor.