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He is interested in the stochastic modeling of engineering and biological systems. He has published more than 120 papers in the International journals of applied probability, operations research, and mathematical biology in the areas of queues, reliability, inventories, branching processes, birth and death processes, compartmental models, and density dependent populations. He has published a book on Applied Birth and Death Models. Twelve students got Ph.D. under his supervision.

Prof. Parthasarathy has given a number of seminar talks in European and North American Universities. He is in the Editorial Board of several International journals. He received the Jacob Wolfowitz Prize for the best article in American Journal of Mathematics and Management Sciences in 2005. He is a Regional Editor, *Statistical theory and Methods Abstracts*, published by the International Statistical Institute and Area Editor of *Opsearch*. He is a Fellow of the Institute of Mathematical Statistics, USA, Fellow of Alexander von Humboldt Foundation, Germany, Senior Associate of the Abdus Salam International Centre for Theoretical Physics, Italy, Elected member of the International Statistical Institute, Netherlands. He was teaching in Germany for two years as DAAD Distinguished Professor.