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Avinash A. Deshpande did his B. Tech. from IIT Kanpur (Elec. Engg.; 1980), and since been at the Raman Research Institute (RRI), Bangalore. He got his Ph.D. (1988) from IIT Bombay based on work done at RRI, and was a post-doctoral fellow at the University of Tasmania, Hobart during 1990-1992. Some of Deshpande's activities in the general fields of Radio Astronomy and Signal Processing are:- 1) Development of new signal-processing techniques and design of state-of-the-art instrumentation for search and studies of pulsars with the low-frequency radio telescopes at Gauribidanur, Ooty, Mauritius and Pune (GMRT). 2) Pulsar Astronomy : a) Pulsar emission at decametric wavelengths; Pulsar timing studies- timing noise; Detection of possible signatures of coherent emission; Detection of a nested-cone structure in pulsar beams; Single-pulse studies and Imaging of the pulsar polar emission--- detection of a remarkable system of emission columns in rotation; Detection of a possible evidence for free-precession.b) Study of pulsar population--- Galactic distribution and implications of birth and evolution of pulsars; Propagation effects in the interstellar medium; Development of a new method for distance estimation. 3) Interstellar Medium: Methods for investigating small-scale (10-100 AU) structure in interstellar neutral hydrogen and resolution of a decades-long puzzle; Modelling of the large-scale magnetic field in the Milky Way. 4) Application of deconvolution methods in astronomical studies. 5) Understanding noise and other issues in radio synthesis imaging.