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Dr. Sahai is expert in Coupled Modelling, Extended Range Prediction of Active/Break spells of Indian summer monsoon, extreme weather events, Madden-Julian Oscillation, Cyclogenesis etc; Monsoon prediction and variability studies using statistical and dynamical approaches; Modelling ground water flow; Analysis of fluid flow instabilities; Use of Artificial Neural Networks for prediction and data analysis and Climate change studies using climate models and observations. Due to his significant contributions in these research areas, Dr. Sahai received various awards and Honors viz. 3rd Golden Jubilee Award, IITM, Pune in 2017; 21st IITM Silver Jubilee Award for the best research paper in 2009; Certificate of Merit from the Ministry of Earth Sciences, Govt. of India in 2009; 16th IITM Silver Jubilee Award in 2004; Best Oral Paper Award at the 3rd Brazilian Symposium of Atmospheric Modeling, in the 13th Brazilian Congress of Meteorology, 2004; Best Paper Award in Fluid Mechanics by the Indian Mathematical Society in 1995. Dr. Sahai also received Korean Brainpool Visiting Scientist Fellowship, Visiting Scientist to Florida State University, APCC visiting Scientist Fellowship and Visiting Researcher Fellowship from CNPq, Brazil. He is also Associate Editor in Journal of Earth System Science and Vayumandal.