

Dr. Rajan Ambat is currently Professor of Corrosion and Surface Engineering at Division of Materials and Surface Engineering, Department of Mechanical Engineering, Technical University of Denmark. He is the Manager for the Centre for Electronic Corrosion/CreCon Industrial Consortium on climatic reliability of electronics at DTU, where he leads the corrosion and environmental effects on electronics at European level. Specifically, the activities focus on humidity interaction with electronics at material, component, and PCBA level, and water film build up, coupled electrochemical processes causing failures modes, interaction between electrochemical process and electronics/electrical functionality, intrinsic and extrinsic methods for humidity control, modelling of humidity effects, and climate data modelling and clustering. Activities within the CreCon Industrial Consortium focus on humidity related reliability and robustness issues of electronic in close collaboration with European electronic industries, specifically related to low and higher power electronics, power electronics for renewable energy and other applications, and automotive electronics including electrification aspects. Presently, Professor Ambat is also Research Manager for the Corrosion node of Danish Hydrocarbon Research and Technology Centre, where he leads the research effort on materials and corrosion, and green and sustainable methods for corrosion prevention. His other research activities focus on Corrosion and Surface Engineering of light aluminium alloys, electrochemical sensors, and in-situ tomographic and synchrotron methods for corrosion investigation. Presently he is the Chairman for the Working Party on Corrosion reliability of electronic devices under European Federation of Corrosion and Board member, IMAPS, Nordic Europe. Professor Ambat has served on editorial boards, and currently part of the editorial board for Corrosion Engineering, Science, and Technology. He is the recipient of Force Technology Materials Award, Denmark. He held visiting professorship at University of Lille, France, GIAN visiting professor, India, and presently Honorary Professor of Amity University, India. He has published more than 300 scientific papers including book chapters and patents.



