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Dynamics of Deepwater Riser Structures induced by Internal Severe Slug Loads, Multiphase Flow Simulation in Pipeline-Riser System, Finite Element Modeling and Analysis (FEM/FEA) of Offshore Structures, and Petroleum Economics and Feasibility Analysis of Upstream Investment. His research interest focuses on Fluid-Structure Interactions (FSI) of Subsea Production Systems, Dynamic Behaviour of Rigid & Flexible Risers, and Computational Fluid Dynamics of Multiphase Flows in Flowlines-Riser Pipe Systems.