



Dr. Dmitry Ponkratov

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Behind the Scenes of CFD Validation: How are Measurements on Actual Ships Performed?

Biography: Dr. Dimitriy Ponkratov is Vice President and Global Head of Marine at Siemens Digital Industries Software, where he leads the company's global strategy and business development for digital solutions in the maritime industry. He holds a Ph.D. in Naval Architecture and an MBA from The Open University Business School. Throughout his career, he has combined expertise in ship hydrodynamics, computational fluid dynamics (CFD), digitalization, and business leadership to support the transformation of ship design and shipbuilding through advanced engineering software and digital technologies.

Before joining Siemens, Dr. Ponkratov held senior technical and management positions at Lloyd's Register and served as Technical Director of the Royal Institution of Naval Architects (RINA). He has led numerous international initiatives related to CFD validation, ship performance prediction, energy-efficient ship design, and digital engineering, including the JORES project on full-scale CFD validation.

Dr. Ponkratov is the author and co-author of numerous scientific and technical publications in the fields of ship hydrodynamics, marine propulsion, cavitation, and numerical simulation. He is a Fellow of the Royal Institution of Naval Architects (RINA) and is widely recognized for promoting the application of digital twins, simulation technologies, and artificial intelligence in the maritime sector, while actively contributing to international conferences and industry collaboration.

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