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SIMULATION COMPLEX FOR AUTONOMOUS UNDERWATER VEHICLES ON A DISTRIBUTED ARCHITECTURE USING A CLUSTER

The paper describes the distributed simulation complex (SC) for autonomous underwater vehicles (AUV) using a multiprocessing computing cluster. We analyzed features of the cluster operating mode as a part of SC with distributed computational nodes connected in a local network. Special attention was paid to issues of simulation modeling of AUV on-board sensory equipment and implementation of algorithms for realistic underwater visualization.

Keywords: simulation complex, virtual reality, distributed architecture.

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