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Pankova L. A., Pronina V. A.

The paper reviews modern computer modeling technologies and classifies computer models. The approaches to creating a versatile computer modeling toolkit based on state-of-the-art technologies are outlined.

ON THE PROBLEM OF RELIABLE EXECUTION OF COMPLEX TASK SETS IN PARALLEL CONTROL

Yeliseev V. V., Ignatushchenko V. V.

To provide the reliable execution of complex sets of interdependent tasks with random realization times in the parallel control computer systems, a new computer technology relying on static forecasting of task execution times is proposed. The reliable execution of the required task sets is regarded as their execution with the desired probability in a time not greater than the prescribed «directive» time. The technology offers a basically new approach to intelligent dynamic control of parallel computing processes.

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