Robot off-line programming and simulation as a true CIME-subsystem - DTU Orbit
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Robot off-line programming and simulation as a true CIME-subsystem
A robot off-line programming and real-time simulation system, ROPSIM, which is based on the neutral interface concept and features simulation of the dynamics of both the controller and robot arm, has been developed. To avoid dependency on dedicated robot models, ROPSIM is based on generic models describing the robot controller, robot arm geometry, and the robot and arm kinetics. The software was developed using the C++ programming language. The key modules are discussed. The system is a true computer-integrated manufacturing and engineering subsystem which facilitates the exchange and reuse of robot model definition data and robot program definition data with systems of other origin or different functionality

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