Applying a semantic information Petri Net modeling method to AUV

systems design(PDF)

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Title: Applying a semantic information Petri Net modeling method to AUV

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摘要: This paper informally introduces colored object-

oriented Petri Nets(COOPN) with the application of the AUV system. According to the characteristic of the AUV system' s running environment, the object-oriented method is used in this paper not only to dispart system modules but also construct the refined running model of AUV system, then the colored Petri Net method is used to establish hierarchically detailed model in order to get the performance analyzing information of the system. After analyzing the model implementation, the errors of architecture designing and function realization can be found. If the errors can be modified on time, the experiment time in the pool can be reduced and the

cost can be saved.

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