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DESIGN OF EVALUATION METHOD FOR RESOURCES SCHEDULING IN TT&C NETWORK MANAGEMENT SYSTEM

Abstract

Integrated with the practice of ONE NETWORK FOR MULTI-SATELLITES in China's space TT&C operation, some methods were proposed to evaluate the ground TT&C resources scheduling plan. These include Task fulfillment, Resources abundance, Period conformity and Duration satisfaction. The corresponding evaluating functions were framed which set up the foundation for scheduling plans comparison. The functions were synthesized by pairwise comparison matrix and could be used as utility function for resources scheduling algorithm design. Simulation indicated that the analyzing results from these evaluation functions are similar to the operator's, so that they can promote the efficiency of TT&C network management.