

Aircraft Assignment: Agent-based approach

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Aircraft assignment is the activity of allocating flights to aircraft, optimizing resource usage and considering its situational limitation. Aircraft assignment problem here takes into consideration aircraft efficiency measure and flight importance. In this work, aircraft assignment is represented as a multi-agent system, interaction among agents is handled via a protocol based on competitive equilibrium concept applied to assignment problem. As proof-of-concept, three simulation are performed based on three different fleets and flight schedules.

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