

SUMMARY OF MASTER'S DISSERTATION

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Title			
System Design of On-Demand Aviation Service			
Abstract			
<p>The problem that an aviation service is not available to occurs now when users required it by the decrease number of flights or the abolition of the route by the local depopulation.</p> <p>In addition, there is a problem not to be available to aviation services because no airline has regular airline when customer wants to evade congestion of the grand transportation of the big city and to use aviation service. An on-demand aviation service is suggested as solution to these problems.</p> <p>In this study, the marketing research of the on-demand aviation service and pointing out the problems in the present conditions are carried out. And, the object of this research is to propose a system for the future spread of on-demand aviation service .</p> <p>Interview survey to the on-demand aviation service company for the acquisition of the problems in the present service. This interview to the company of the existing on-demand aviation service was to find the present problems for the service enforcement. Each company around 90 minutes.</p> <p>User requirements were improvement of the mileage or the simplification of the body structure. A body concept was selected based on a user requirements, and the power source is selected. After integration of these, a aircraft concept for on-demand aviation services was derived. And tests to exam the power system to inspect the feasibility of a derived concept were carried out..</p> <p>As a conclusion, The concept could achieve more user needs than the conventional aircraft concept using the conventional internal combustion engine.</p>			
Key Word(5 words)			
On-Demand Aviation, Aircraft, Concept, Hybrid Energy System, Depopulation			