

김복선*(국민대), 박태훈(국민대)	
AM-13	<i>NP-Completeness of the Description Logic RSV</i>
<p>The description logic <i>RSV</i> may be used for representing and solving resource constrained scheduling problems with variant processes. In this paper, three different variants for formalizing the <i>RSV</i>-scheduling problem are considered. These are the <i>optimizing variant</i>, the <i>number variant</i> and the <i>decision variant</i> of the <i>RSV</i>-problem. With the aid of decision variant we show that the <i>RSV</i>-problem is <i>NP</i>-complete. Further we expound that the optimizing variant (or number variant) of the <i>RSV</i>-problem is computable in polynomial time if and only if the decision variant is computable in polynomial time.</p>	

이형천(아주대)	
AM-14	Computational methods for optimal control problems of fluid flows
<p>Some optimal control problems for fluid flows are studied such as Navier-Stokes flows and Benard problem. Some computational methods are considered. A projected gradient method for optimality system is studied. Then, a piecewise optimal control of Benard problem is considered. Some computational experiments also will be presented.</p>	