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学会名	公益社団法人自動車技術会2020年度秋季大会学術講演会
演題名	Influence of Fuel Injection Position on Diesel Engine Combustion Chamber
発表者	○ Stefanus Julius Junaedi※, Louis Budi Soesanto※, Seyma Soyer(Usak Univ.), <u>Akira Kato</u>
内容	<p>Intending to curb global warming and amidst an urgent need to improve the combustion of internal engines, research is proceeding with computational fluid dynamics (CFD) simulations instead of experiments using an actual engine. The purpose of this study is to numerically analyze the effect of fuel injection position in the diesel engine combustion chamber on engine performance and exhaust emissions through Convergent Science's CONVERGE CFD simulation code. To shorten the time and cut the costs of the research, the experimental method was performed to validate the simulation model so that the simulation model could be able to modify. There are 5 different fuel injector positions including the base simulation model that has been applied to the simulation model. Simulation results of diesel engine performance and exhaust emissions on different fuel injector positions will be compared and reported.</p>
関連画像	