ReviewForm3

JournalName:	**JournalofEngineeringResearchandReports**
ManuscriptNumber:	**Ms_JERR_124244**
Titleof theManuscript:	**HYBRIDNEURO-FUZZYBASEDIMPROVEDCONTROLDESIGNOFELECTRO-PNEUMATICCLUTCHACTUATIONCONTROLSYSTEMFORHEAVYDUTY VEHICLES.**
Typeof the Article	

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PART1: ReviewComments

CompulsoryREVISIONcomments	**Reviewer'scomment**	**Author'sFeedback***(Pleasecorrectthemanuscriptandhighlightthatpart inthe manuscript.Itismandatorythatauthorsshouldwritehis/herfeedback here)*
Pleasewriteafew sentencesregardingtheimportance ofthismanuscriptfor thescientificcommunity.Whydo youlike(ordislike)thismanuscript?Aminimumof3-4 sentencesmayberequiredforthispart.	The manuscriptprovidesapplicationofNeuro-Fuzzysystemsfora dynamicandrealtimeapplication. Theapplicationistheautomotivefieldandcanbeextendedforvariouscategoriesoftheheavydutyvehicle. Resultsarepresentedwithrealtimedatabaseandmaterials.	
Isthetitleofthearticlesuitable? (Ifnotpleasesuggestanalternativetitle)	Yes **SEE ATTACHMENT**	
Istheabstractofthearticlecomprehensive?Doyou suggesttheaddition(ordeletion)of somepointsinthis section?Pleasewriteyoursuggestionshere.	Authorneedtoworkonthe Abstract.:Rewritetheabstract Thestatementscanbeputinabstractandwithshortlength.Makethestatementgrammaticallycorrect. Thestatementisverylong,it canbeshortbutinformative. 1. The applicationof hybrid Neuro-Fuzzy principles of clutch actuation control in enhancingtheperformanceofelectro-pneumaticclutchactuationsystemforheavy duty vehiclesistheaimofthispresentation.Neuro-Fuzzy isahybriddesignthat accommodatestheprinciplesoffuzzy LogicandNeuralNetworkinamannerthattake advantageof their positive sides. Thefollowingparagraphcanbeaddedinconclusion.This paragraphalsocontains longstatements.Please makethe statementsshortbutinformative. 2. TheseresultsdepictsconclusivelythatHybridNeuro-Fuzzycontrollerapplicationin intelligentclutchactuationcontrolofanelectro-pneumaticclutchsystemfor heavy-dutyvehiclewillhaveovertheuseofasinglemodeofeitherfuzzylogicorArtificial NeuralNetwork.Itsimpactinthesmoothoperationofheavy-duty vehiclesisindeed significantin	
Aresubsectionsandstructureofthemanuscri pt appropriate?	Section:2: Titlemodification:Neuro-Fuzzy Systems Accordingly,section 2.1and2.2 titleneeds modification. Figuretitle needsmodification: Provideappropriate title	
Pleasewriteafew sentencesregardingthescientific correctnessofthismanuscript.Whydoyouthinktha t thismanuscriptisscientificallyrobustandtechnica lly sound?Aminimumof3-4sentencesmayberequired forthispart.	The manuscriptis scientificallyrobustasELECTRO-PNEUMATICCLUTCHACTUATIONCONTROL SYSTEMisdesignedusingNeuro-Fuzzycontroller.Electro-pneumaticclutchactuationisan importantphenomenoninheavydutyvehicletoimprovethelife spanofthevehicle.	

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Arethereferencessufficientandrecent?If youhave suggestionsofadditionalreferences,pleasement ion themintheReviewform. **-**	**RecentReferencesneedstobemention ed.** **AlsoworkdonerelatedtoCLUTCHACTUATIONCONTROLSYSTEMinautomationneedstobe presented.** Ndubuisi,Paul-DarlingtonIbemezie,etal."Improvingtheelectro-pneumaticclutchactuationcontrol system ofa heavy-duty vehicles using artificial neural network."*GSC AdvancedResearch and Reviews*19.3(2024):018-030. Biswas, Atriya, Aashit Rathore, and Ali Emadi. "Coordinated clutchactuation for drivability improvement and energy management of a novel multi-mode hybrid electric vehicle and HIL validation."*EnergyConversionandManagement*287(2023):117060.	

	Wang,Yue,etal."AdaptivePressureControloftheClutchHydraulicActuatorinWetDualClutch TransmissionbasedonTSFuzzyModelandExtendedStateObserver."*IEEEAccess*(2023). Formento, Cecilia,AntonioTota,andMauroVelardocchia."AnalysisofEngineBrakingSystemfor HeavyVehiclePerformanceImprovement."*TheInternationalConferenceofIFToMMITALY*.Cham: SpringerNatureSwitzerland,2024.	
MinorREVISIONcomments **Isthelanguage/Englishqualityofthearticlesuitable forscholarlycommunications?**	MajorREVISIONisrequiredforManuscript**language/Englishofthearticlesuitableforscholarly communications** Thetopicandcontentsare Innovative,buttheoverallpresentationand organizationofthe paperneeds improvement.	
Optional/Generalcomments	1. Addmethodology 2. Somestatementsareverylong,pleasedomakeitshortandmeaningful. 3. Figurequalityneedstoimprove,visibilityisveryless. 4. Theorycontentscanbeoptimized. 5. Mentionfuturescope	

PART 2:

	Reviewer's comment	**Author's comment***(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Vaishali S. Kulkarni**
Department, University & Country	**Savitribai Phule Pune University, India**