Profile Page



Name	:	Er Narinder Singh Bhangal	
Designation	:	Associate Professor	
Department	:	Instrumentation & Control Engg.	
Qualification	:	M.Tech Control Systems (PAU,Ludhiana) B.Tech Electrical Engg. (Punjab University)	
Email	:	singhn@nitj.ac.in	

Research Interests :

Optimal Control Systems, Robust Control and Fuzzy Control of Active Vehicle suspension system Modeling and optimal control of 2- Link Rigid Manipulator and Single Link Flexible Manipulator

Journal Publications :

Year	Journal	Publication
May	International Journal of	Narinder Singh Bhangal, Robust Control of Two Link Rigid Manipulator
2015	Information and Electronics Engg.,	
	vol 5,no3,pp 198-203	
June	Journal of Automation and Control	Narinder Singh Bhangal, Robust Control of Double Inverted Pendulum
2017	Engg.,vol5, no1, pp 14-20,	System
	June2017	
June	Journal of Image and Graghics, vol	Narinder Singh Bhangal, Design and Performance of LQR and LOR
2013 1, no2, pp 143-146		based Fuzzy Controller for Double Inverted Pendulum System
July International Journal of		Narinder Singh Bhangal, Comparison of LQR and PD Controller for
2012	Engineering Research and	Stabilizing Double Inverted Pendulum System
	Development, vol 1,no 12,pp	
	69-74	
Feb,	International Journal of Advanced	Narinder Singh Bhangal, Optimal Control of Double Inverted Pendulum
2012	Research in computer science and	System using LOR controller
	Software Engg., vol 2,no 2,pp	
	189-192	
	International Journal of Advanced	Narinder Singh Bhangal, Hub Angle Regulation and End Effector
Aug.201	Research in Electrical, Electronics	Control of Single Link Flexible Manipulator
3	and Instrumentation Engg., vol	
	2,no 8,pp 3967-3979	
April	International Journal of Control	Narinder Singh Bhangal, Robust Control of Vehicle Active Suspension
2016	and Automation, vol 9,no4,pp	System
	149-160	
April	International Journal of	Narinder Singh Bhangal, Fuzzy Control of Vehicle Active Suspension
2016	Mechanical Engg. and Robotics	System
	Research, vol 5,no2,pp 144-148	

2014	International Journal of Control	Narinder Singh Bhangal, Comparison of Neural Network and Fuzzy	
	and Automation, vol 7,no 4,pp pp	Logic Controller for nonlinear model of Two Link Ridid Manipulator	
	417-428		

Conference Publications :

Year	Conference	Publication
Sept.	IEEE International Conference on Signal Processing	Narinder Singh Bhangal, Performance Comparison of
2013	and Control, Shimla, Himachal Pradesh, India	LQR and ANFIS controller for Stabilizing Double
		Inverted Pendulum System
	International Conference on Computer and Electrical	Narinder Singh Bhangal, Fuzzy Control of Vehicle
Oct.201	Engg.(ICCEE-2015),Paris,France	Active Suspension System
5		
	International Conference on Computer and Electrical	Narinder Singh Bhangal, Robust control of Two Link
Oct.201	Engg.(ICCEE-2014), Geneva, Switerland	Rigid Manipulator
4		
	International Conference on Computer and Electrical	Narinder Singh Bhangal, Design and Performance of
Oct.201	Engg.(ICCEE-2012), Hongkong, China	PD and LQR controller for Double Inverted Pendulum
2		System
June	International Conference on Computing and	Narinder Singh Bhangal, Design and Performance of
2013	Computer Vision (ICCCV-2013), Paris, France	LQR and LQR based Fuzzy controller for Double
		Inverted Pendulum System
Dec.	International Conference on Computer and Electrical	Narinder Singh Bhangal, Robust Control of Double
2016	Engg.(ICCEE-2016),Barcelona, Spain	Inverted Pendulum System
	International Conference on Biomedical Engineering	Narinder Singh Bhangal, LQR control of Two Link
Dec,201	and Assistive Technologies, Jalandhar, India	Rigid Manipulator
0		
Dec,	2nd International Conference on Biomedical	Narinder Singh Bhangal, Design and Simulation of
2012	Engineering and Assistive	LQR controller forStabilizing Double Inverted
	Technologies, Jalandhar, India	Pendulum System
Dec,	2nd International Conference on Biomedical	Narinder Singh Bhangal, Design and Performance of
2012	Engineering and Assistive	LQR and Fuzzy logic controller for Two Link Rigid
	Technologies, Jalandhar, India	Manipulator
Dec,	International Conference on Test and	Narinder Singh Bhangal, Optimal Control of Flexible
2010	Measurement(ICTM- 2010),Puket, Thailand	Link Manipulator