Profile Page



Name	:	Dr Kuldeep Singh Nagla
Designation	:	Professor
Department	:	Instrumentation & Control Engg.
Qualification	:	PhD Robotics (Dr BR Ambedkar NIT Jalandhar)
		M Tech (By Research) Control and Instrumentation (Dr BR
		Ambedkar NIT Jalandhar)
		BE Electronics and Instrumentation (College of Engineering
		and Technology Bathinda under Punjabi University Patiala)
Address	:	Department of ICE
		Dr BR Ambedkar NIT Campus
		Jalandhar, Punjab - 144011
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Phone	:	9417744002

Research Interests :

Space Robotics, Artificial Intelligence, Sensor Fusion, IoRT, SLAM, Industrial Automation, Intellectual Property Rights (IPR) etc.

Other Profile Links :

Google Scholar Link :

Dr. KS Nagla Click Here

Personal Web Link :

Dr Kuldeep Singh Nagla Click Here

Journal Publications :

Year	Journal	Publication			
2022	Official Journal of patent office,	Sushendra Kumar Misra, Kuldeep Singh Nagla, Vehicle disinfection			
	Vol 3, PP 3208	system and method thereof			
2021	International Journal of Image and	Archana Khurana, KS Nagla , Improved Auto-Extrinsic Calibration			
	Data Fusion 12 (2), 122-154	between Stereo Vision Camera and Laser Range Finder,			
2021	MAPAN 36 (3), 669-690	A Khurana, KS Nagla, Extrinsic Calibration Methods for Laser Range			
		Finder and Camera: A Systematic Review			
2021	MAPAN volume 36,	S. Yadav & D. K. Aswal A. Varshney, N. Garg, K. S. Nagla, T. S. Nair,			
	pages215-226	S. K. Jaiswal, Challenges in Sensors Technology for Industry 4.0 for			
		Futuristic Metrological Applications			
2020	Journal of Intelligent & Robotic	Archana Khurana, KS Nagla "An Improved Method for Extrinsic			
	Systems 99 (3), 693-712	Calibration of Tilting 2D LRF",			

2019	Sensor Review Vol. 39 No. 4, pp.	Singh R, Nagla K.S.,"A modified sensor fusion framework for
2017	456-472	quantifying and removing the effect of harsh environmental conditions
		for reliable mobile robot mapping",
2019	MAPAN, Springer, Vol. 34 No. 1,	Singh, R. and Nagla, K.S., Removal of specular reflection and cross talk
2017	pp. 31–42	in sonar for precise and accurate range measurements
2019	MAPAN, Springer, Vol. 34 No. 2,	Singh, R. and Nagla, K.S., Sonar sensor model for the precision
2017	pp. 239–257	measurement to generate robust occupancy grid map
2019	Sensor Review, Emerald	Singh, R. and Nagla, K.S., Comparative analysis of range sensors for the
_017	Publishing Limited, Vol. 40 No. 1,	robust autonomous navigation-a review", Sensor Review
	pp. 17-41	
2019	Sensor Review, Emerald	Singh, R. and Nagla, K.S., A modified sensor fusion framework for
	Publishing Limited. Vol. 39 No. 4,	quantifying and removing the effect of harsh environmental condition for
	pp. 456-472	reliable mobile robot mapping
2019	International Journal of Vehicle	Singh, R. and Nagla, K.S., Modified probabilistic laser sensor model to
	Autonomous Systems, Vol. 14 No.	reduce the effect of the mixed pixel for robust autonomous mobile robot
	4, pp. 305–324	navigation
2019	Taylor & Francis, Vol. 10 No. 3,	Singh, R. and Nagla, K.S., Development of an efficient laser grid
	pp. 177–198	mapping technique: P-SLAM",
2019	International Journal of Intelligent	Singh R, Nagla K.S., "Multi-data sensor fusion framework to detect
	Unmanned Systems, Vol. 7 No. 1,	transparent object for the efficient mobile robot mapping"
	pp. 2-18	
2018	Official Journal of the Patent	KS Nagla, Water Melon seed extracting device and method thereof
	office (India), Vol 04/2018 PP	
	3196	
2018	Official Journal of the Patent	KS Nagla, Cookies dispensing machine
	office (India), Vol 04/2018 PP	
	3197	
2018	Official Journal of the Patent	KS Nagla, Robotic modular transportation system
	office (India), Vol 04/2018 PP	
	3198	
2018	MAPAN 33 (1), 33-41	A Khurana, KS Nagla, Signal averaging for noise reduction in mobile
		robot 3D measurement system
2018	World Journal of Engineering,	Singh, R. and Nagla, K.S., "Error Analysis of Laser Scanner for Robust
	Vol. 15 No. 5, pp. 626–632	Autonomous Navigation of Mobile Robot in Diverse Illumination
		Environment",
2018	MAPAN Springer, Vol. 34 No. 1,	Singh, R. and Nagla, K.S., 2018, "Removal of Specular Reflection and
	pp. 31–42	Cross Talk in Sonar for Precise and Accurate Range Measurements",
2018	International Journal of Intelligent	Singh, R. and Nagla, K.S., "Improved 2D laser grid mapping by solving
	Unmanned Systems, 6(2) 2017,	mirror reflection uncertainty in SLAM", International Journal of
0010	pp.93-114	Intelligent Unmanned Systems,
2018	MAPAN Springer, Vol. 34 No. 2,	Singh, R. and Nagla, K.S., "Sonar sensor model for the precision
2017	pp. 239–257	measurement to generate robust occupancy grid"
2015	International Journal of Robotics	,Nagla, K.S., Uddin, M. and Singh, D. Dedicated Filter for Robust
2014	and Automation, Vol 4(1), p.82.	Occupancy Grid Mapping
2014	International Journal of Robotics	Multisensor Data Fusion and Integration for Mobile Robots: A Review
2012	and Automation (Google Scholar)	KON-1. MUIII. DOLLI IIIIIII
2012	Robotics and autonomous Systems	KS Nagla, M Uddin, D Singh, Improved occupancy grid mapping in
2012	60 (10), 1245-1252	specular environment
2012	International Journal of Advanced	Ravinder Singh, KS Nagla, Proposed model of an earthquake detector by
	Research in Computer Science and	using UBG-04LX-F01 laser rangefinder
	Software Engineering, vol 2 (5) pp	
	241-245	

2009	Official Journal of the Patent	Mechanism to clean the bird droppings in cage type poultry farm
	office (India), Vol 13, 2009	
2008	Journal of Tissue Viability,	Ghosh S, Mukhopadhyay A, Sikka M, Nagla KS, Pressure mapping and
	17(3):82-94	performance of the compression bandage/garment for venous leg ulcer
		treatment
2008	Official Journal of the Patent	Intelligent Induction Hardening Device And Method Thereof
	office (India)	

Conference Publications :

Year	Conference	Publication
2021	Recent Advances in Metrology - Select Proceedings of AdMeT 2021	Anshul Varshney, Naveen Garg, S. K. Jaiswal, K. S. Nagla and Sanjay Yadav, Challenges in Sensors Technology for Industry 4.0 for Futuristic Metrological Applications
2020	International conference Soft Computing: Theories and Applications	Archana Khurana, Rini Sharma, KS Nagla, 3D Scene Reconstruction of Vision Information for Mobile Robot Applications
2019	National seminar on social implications on artificial Intelligence, March,2011 2. Sunil Kumar , K.S. Nagla, Kinematic Analysis of Skid-Steer Wheeled Mobile Robot, A Multi-Track National Conference SLITCON 1-3 March, 2019	KS Nagla, Palavi Singla, Amanpreet Singh, Apeksha, , "Stochastic modeling of sonar sensor for mobile robot navigational applications",
2019	A Multi-Track National Conference SLITCON 1-3 March, 2019	Mukesh Kumar Sharma, K.S. Nagla, Kinematic Analysis of Two-Wheeled Differential Drive Mobile Robot
2018	SOCTA, 2018 (Scopus)	Archana Khurana , KS Nagla, Rini Sharma " 3-D scene reconstruction of vision information for mobile robot applicatiobn
2016	Internatioal Conference on Humanizing work and work environment HWWE-2016	Archana Khurana, KS Nagla, Rini Sharma" 3D mobile robot mapping using laser range finder"
2015	12th IEEE International conference INDICON 2015, 17-20 Dec., 2015, pp 1-6	Nidhi Jain, Y Prem Kumar, KS Nagla, Corner Extraction From Indoor Environment For Mobile Robot Mapping
2014	IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI, 2014), pp 863 – 867	Goyal, J.K.; Nagla, K.S., A new approach of path planning for mobile robots
2014	IEEE International Conference on Issues and Challenges in Intelligent Computing Techniques (ICICT)	Tripathi, P.; Singh, H.; Nagla, K.S.; Mahajan, S., Occupancy grid mapping for mobile robot using sensor fusion
2013	Applied Imagery Pattern Recognition (AIPR) annual IEEE workshops (Sensing for Control and Augmentation) held at Washington DC (USA) on October 23-25, 2013	K.S. Nagla, Moin Uddin, Dilbag Singh , sensor fusion frame work for robust occupancy grid mapping
2012	ACODS: International conference on Advances in Control and Optimization of Dynamical Systems	Gaurav Sharma, K.S Nagla, , Evaluation of Occupancy Grid using LabVIEW software
2012	2nd International Conference on Biomedical and Assistive Technologies BEATS, India	KS Nagla, Neha Sharma, and Meera Sharma, Online performance measure of logical sensors for occupancy grid mapping
2011	22nd DAAAM World Symposium "Intelligent Manufacturing & Automation: Power of Knowledge and Creativity", at Austria Center Vienna, Vienna, Austria from 23-26th November 2011. Pp 339-340	K.S. Nagla, Moin Uddin, Dilbag Singh, Nikhil Rathi, Sensor Fusion Frame Work for Marble/Stone Processing Industry using Low Cost Sensors

2010	IEEE international conference AIPR 2010 USA	K.S. Nagla, MoinUddin, Dilbag Singh, Rajev Kumar, Object Identification in Dynamic Environment Using Sensor Fusion
2009	World Conference on Education, Jalandhar	K.S. Nagla, MoinUddin, Dilbag Singh Recent Trends in Cleaning Service Robots
2006	IEEE International Conference on IEEE international	K.S. Nagla, MoinUddin, R. Jha, Akshay Mathur
	conference on Mechatronics and Automation, ICMA-	
	06 Luoyang, HeNan, China. June 25-28, 2006	
2006	17th International DAAAM Symposium "Intelligent	Nagla KS, Moin Uddin, R, Jha, Arora, JS, Kalra, AS,
	Manufacturing & Automation: Focus on Mechatronics	Katyal,A, , Cleaning Robot: Selection and analysis of
	& Robotics" 8-11th November 2006 pp 261-262	driving Mechanism
2005	Nagla K. S., Saha S K, Jha R., Akshay Mathur , IEEE	Robot for Cleaning the Surface below the Indian
	International conference ACIAR-2005 (Asian	Railway Tracks at Platforms: Feasibility and
	conference on Industrial Automation & Robotics)	Kinematics
2005	16th DAAAM International Symposium "Intelligent	Nagla K. S., Saha S K, Jha R., Akshay Mathur ,
	Manufacturing and Automation: Focus on Young	Kinematics of Wheeled Mobile Robot" proceedings of
	Researchers and Scientists" 19-22nd October 2005 at	16th DAAAM International Symposium
	Opatija, CROATIA, pp 259-260	
2005	National Seminar on Embedded Systems Kanya Maha	Nagla KS., Jha R, Mathur A., "Embedded Robotics:
	Vidyalaya Jalandhar, January 24-25, 2005 pp	an approach to design and development of embedded
	175-182.	based Mobile Robot
2004	International Conference on Emerging Technology	Nagla KS, Jha R, Recent Progress in Underwater
	(ICET-2004) KIIT., Bhubaneshwar	vision systems
2003	Asian Conference on Industrial Automation &	Nagla K.S. and R. Jha ,Sequence Control of Mobile
	Robotics, Bangkok, pp 249-252	Robot for Collision Free Path
2003	Proceedings of National Conference PCIC-2003, NSS	K S Nagla and R Jha "Mobile robot on collision free
	College of Engg. Palakkad (Kerala), Jan, 2003	path"
2002	13th DAAAM International Symposium on	Nagla K.S. and R. Jha. , Domestic Mobile Robot
	"Intelligent Manufacturing & Automation: Learning	
	from Nature" at Vienna, Austria, pp 373-374.	
2002	Proceedings of National Seminar, Indian Society for	R Jha, KS Nagla "On Solar thermal electrical power
	Technical Education (ISTE), SBSCET Ferozepur,	generation
2001	INDIA.Oct. 26, 2002	
2001	Annals of DAAAM in Proceedings of 12th DAAAM	KS Nagla, Robot for Railways (with case study of
	International Symposium, pp 213-214	Indian railways)
2001	ASIAR 2001, BITECH Bangkok THAILAND, pp	KS Nagla, PLC based remote control universal robot"
	162-166	Proceedings of Asian Symposium on Industrial
2000		Automation and Robotics (ASIAR 2001)
2000	Proceeding of National Symposium IPRooM, 2000,	KS Nagla, Domestic Robot
	Pryadarshani College of Engineering and Technology	

Book/Chapter Publications :

Туре	Title	Publisher	Authors	ISBN/ISS	Year
				N No.	
Book	Challenges in Sensors Technology for	Springer	Anshul		2021
Chapter	Industry 4.0 for Futuristic Metrological		Varshney,		
	Applications		Naveen Garg, S.		
			K. Jaiswal, K. S.		
			Nagla and		
			Sanjay Yadav		

Research Projects :

Role	Project	Title	Funding	From	То	Amount	Status	Co-Investi
	Туре		Agency					gator
Principal	R&D	Design and	Dr. BR	2004	2005	30K	Complete	NIL
Investigator		Development	Ambedkar				d	
		of	National					
		Underwater	Institute of					
		Robot	Technology					
			Jalandhar					
Principal	R&D	Robot for	MHRD	2009	2012	Rs 13	Complete	NIL
Investigator		Cleaning the	(Ministry of			Lakh	d	
		Railway	Human					
		Tracks	Resource					
		(Project No.	Developmen					
		26-11/2001.T	-					
		SV, S.No-89)	Government					
			of INDIA					
Co-Investig	R&D	Designing	MHRD	2009	2013	8Lakh	Complete	KS Nagla
ator		Non-Woven	(Ministry of				d	_
		Fabric for	Human					
		Pulse-Jet	Resource					
		Filtration	Developmen					
			t),					
			Government					
			of INDIA					
Principal	Indo Korean	Real time	DST and	2015	2018	36 Lakh	Complete	
Investigator	(R&D)	shared	Govt. of			Indian	d	
		autonomy	South Korea			side		
		system for the						
		field mobile						
		robot						
Co-PI	R&D	Modeling and	ISRO	2020	2022	7 Lakh	Complete	KS Nagla
		Simulation of					d	
		Antenna						
		Control Servo						
		System						
PI	R&D	Service	TEQIP-III	2020	2021	2.40 Lakh	Complete	Dr LK
		Robot for					d	Awasthi
		Hospitals						

Events Organized :

Category	Туре	Title	Venue	From	То	Designation
AICTE-STC	National	Modern Practices in	Dr BR Ambedkar	13-07-2009	17-07-2009	Coordinator
		Measurement and	NIT Jalandhar			
		Instrumentation				
		Engineering				
Workshop	National	Robotics	Dr BR Ambedkar	21-08-2016	22-08-2016	faculty
			national Institute of			coordinator
			Technology			
			Jalandhar			

One day	National	Workshop on Drone	Industrial Block	25-02-2018	25-02-2018	Coordinator
workshop			NITJ			
Workshop	National	One day workshop on	Seminar Hall	25-02-2018	25-02-2018	Faculty
		robotics under R-tist	Industrial Block			Coordinator
		Robotics club				
STC	National	Optimization and	NIT Jalandhar	10.01.2019	14-01-2019	Coordinator
		Control Design				
		Techniques Innovations				
		and Challenges				
FDP	National	On Embedded system	NIT Jalandhar	8-11-2019	12-11-2019	Coordinator
		Wireless sensor				
		network for IoT				
STC	National	IPR	NIT Jalandhar	18-08-2020	22-08-2020	Coordinator

Professional Affiliations :

Designation	Organization	
Member	IEEE	
Life member	Instrument Society of India (ISOI)	
Member	RAS (Robotics and Automation Society)	
Life member	India Innovator Association	

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Archana Khurana	3D mobile robot mapping	Submitted	2021	NIL
Ravinder Singh	Mobile robot mapping	Awarded	2020	NIL

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Abhishek Gupta	Implementation of Simultaneous Localization and	Completed	2021	NIL
	Mapping using LiDAR Scans in a Mobile Robot			
k. Dhanunjay	Modelling and simulation of ground station	Completed	2021	NIL
	antenna control system			
Thrishna S Nair	IoT based 2d mapping of Mobile robot using	Completed	2021	NIL
	sonar sensor			
Thrishna S Nair	IOT Based 2D Mapping of Mobile Robot Using	Completed	2021	NIL
	Sonar Sensor			
Mukesh Kumar	Global path planning of mobile robot in static	Completed	2019	NIL
Sharma	environment using PRM and GA			
Sunil Kumar	Mobile robot path planning analysis using	Completed	2019	NIL
	particle swarm optimization			
Prasanth kumar	Localization of ORIGAMI wheeled mobile robot	Completed	2018	NIL
	with augmented Kalman filter			
Chimata	Path planning analysis by varying growth factor	Completed	2018	NIL
venkanna	with RRT and RRT* techniques			
Deepak Bhola	Mobile robot mapping by stereovision using	Completed	2017	NIL
	feature based techniques			
Kirti Singh	Modeling laser intensities corresponding to	Completed	2017	NIL
	extrinsic parameter of target			
Rajnish Partap	Mobile robot localization by using Kalman filter	Completed	2017	NIL
Singh				

Rini Sharma	Mobile Robot 3D Mapping using Stereovision	Completed	2016	NIL
Archana Khurana	3D Mobile Robot Mapping using Laser Range	Completed	2016	NIL
	Finder			
Rahul Kumar	PID Tuning of 3-DOF Manipulator	Completed	2016	NIL
Nidhi Jain	Corner Extraction from indoor environment for	Completed	2015	NIL
	Mobile Robot Mapping			
Prem Kumar	Mobile Robot Environment Mapping using Sonar	Completed	2015	NIL
	Sensor			
Tarlok Singh	Collision Avoidance in Mobile Robots using	Completed	2015	NIL
	vector histogram			
Vikas Kumar	Error Analysis of 3-DOF manipulator	Completed	2014	NIL
Jai Parkash	Improved Computation time for occupancy grid	Completed	2014	NIL
Jingar	mapping			
Sanjay Kumar	Odometry error model for differential drive motor	Completed	2014	NIL
Jitin Kumar Goya	Mobile Robot Path Planning	Completed	2013	NIL
Ravinder Singh	Estimation and removal of errors in Hokuyo	Completed	2012	NIL
	UBG-04LX-F01 2D laser range finder			
Nikhil Rathi	Object identification using sensor fusion by	Completed	2011	NIL
	Dempster Shafer theory			
Utpal Kant	Occupancy grid mapping for the mobile robot	Completed	2011	NIL
	using Scale Invariant Feature Transform			
Rajeev Kumar	Neural learning for sensor fusion in autonomous	Completed	2010	NIL
	mobile robot			
Priyanshu	Occupancy grid mapping for mobile robot using	Completed	2010	NIL
Tripathi	sensor fusion			
Ajaj Rasul	Neuro –fuzzy technique for the speed and	Completed	2008	NIL
	steering control and obstacle avoidance for the			
	autonomous guided vehicle			
Rajesh M	A stochastic approach to analyse mobile robot	Completed	2003	NIL
	navigation using sensor fusion			

Patents :

Name	Reg./Ref. No.	Date of	Organization	Status
		Award/Filling		
Mechanism to Clean Bird Dropping	Patent No 210090	18/09/2007	Patent Office	Granted
(Garbage) within a Cage type			Delhi	
Poultry Farm				
An Earth Quake Alarm	Patent No 220748	04/06/2008	Patent Office	Granted
			Delhi	
An Intelligent Leg Exercise Machine	Patent no 280792	28/02/2017	Patent Office	Granted
			Delhi	
Induction Hardening Machine	Patent No 320045	06/09/2019	Patent Office	Granted
			Delhi	
An Improved Packed Bed	Patent No. 361300	16/03/2021	Patent Office	Granted
Photocatalytic Reactor With High			Delhi	
And Uniform Illumination And An				
Associated Technique Of				
Purification				
Decorative Article	Design Patent No	06-12-2006	Design Office	Granted
	207315		Kolkata	
Heat treatment tray	Design Patent No	03/07/2013	Design Office	Granted
	254948		Kolkata	

Door Handle	Design Patent no	20-02-2015	Design Office	Granted
	265973		Kolkata	
Packed Bed Photocatalytic Reactor	Design Patent 279651	08-03-2017	Design Office	Granted
			Kolkata	
Watermelon seed extracting device	Design Patent 285332	19-07-2016	Design Office	Granted
			Kolkata	
Service Mobile Robot	Design Patent no	07-12-2021	Design Office	Granted
	337694-001		Kolkata	
Ultavilot Surface Cleaner	Design Patent no	17-12-2021	Design Office	Granted
	337687-001		Kolkata	
Calibration of Stereo Vision camera	copy right no	21-12-2018	Copyright office	Granted
and Laser Range Finder for mobile	SW-12007/2018		New Delhi	
robot applications				
Program tool for estimation of	Copyright no	21-01-2019	Copyright office	Granted
translation calibration parameters	SW12095/2019		New Delhi	
along axis parameters between 2D				
LRF and Rotating platform				
Program tool for Information	Copyright no	16/03/2017	Copyright office	Granted
transformation between laser and	SW-9112/2017		New Delhi	
servomotor for 3D mobile robot				
mapping				
Discovering Buoyancy Force Based	Copyright no	09-02-2010		Granted
Perpetual Motion Machine	©L-35432/2010			
Discovering a Unique Twist Pattern	Copyright No	09-02-2010	Copyright office	Granted
in of Nassella Neesiana	©L-35431/2010		New Delhi	
Discovering a twist on the stem of	Copyright No	12-11-2007	Copyright office	Granted
eucalyptus plants	©L-29494/2007		New Delhi	
New techniques of water purifying	Copyright no	06-01-2011	Copyright office	Granted
	©L-36944/2011		New Delhi	
Solar photovoltaic apparatus	copyright no	18-03-2011	Copyright office	Granted
	©L-37669/2011		New Delhi	
About IPR	Copyright no	18-03-2021	Copyright office	Granted
	©L-37370/2011		New Delhi	
Importance of solar water heating	Copyright no	18-03-2011	Copyright office	Granted
system	©L-37671/2011		New Delhi	
Importance of robots for domestic	Copyright no	18-03-2011	Copyright office	Granted
chores	©L-37672/2011		New Delhi	

Admin. Responsiblities :

Position Held	Organization	From	То
Incharge Robotics lab	NITJ	2004	till now
Warden Hostel	NITJ	2006	2009
Assistant proctor	NITJ	2006	2008
Faculty advisor Fine Arts	NITJ	2008	2010
Deputy Registrar Academic	NITJ	2013	2014
Deputy Registrar Establishment	NITJ	2014	2015
University Officer All India	NITJ	2012	2015
Survey on Higher Education			
Member Rashtriya Avishkar	NITJ	2015	till now
Abhiyan			
Faculty advisor IPR cell	NITJ	2016	2018

Coordinator SC/ST/OBC/Person	NIJ	2008	2017
with Disability (PwD) and Liaison			
Officer			
Faculty advisor IPR cell	NITJ	2016	2018
Head Department of ICE	Dr BR Ambedkar NIT Jalandhar	12-02-2018	till now
Head Department of Electrical	Dr BR Ambedkar NIT Jalandhar	12-02-2018	till now
Engineering			
Warden H No 5	Dr BR Ambedkar NIT Jalandhar	13-05-2017	28-02-2018
Coordinator Campus Amenities	Dr BR Ambedkar NIT Jalandhar	2017	2018
Chairman BOS Instrumentation	Dr BR Ambedkar national Institute of	2018-2019	
and Control Engineering	Technology Jalandhar		

Award and Honours :

Title	Activity	Given by	Year
Emerald Literati Awards of Excellence	for an outstanding research	Emerald Publishing Limited	2020
2020	paper 'Multi-data sensor	UK	
	fusion framework to detect		
	transparent object for the		
	efficient mobile robot		
	mapping', authors Ravinder		
	Singh and Kuldeep Singh		
	Nagla published in		
	International Journal of		
	Intelligent Unmanned Systems		
Best Teachers Award 2018-2019	During 15th convocation	Director cum Chairman	2019
		Senate Dr BR Ambedkar	
		National Institute of	
		Technology Jalandhar	
First Prize	STC	Coordinator STC IIT delhi	2015
Certificate award	Excellence in Research	DAAAM International Vienna	2011
Third Prize	State level Exhibition of	Governer Punjab	2011
	Robotics		
Best Teacher award	Teaching	Principal GP Bathinda	2002
Best Teacher Award	Teaching	Principal GP Bathinda	2001
Cash Award Rs. 20000	Innovative design of Domestic	Commissioner Bathinda	2001
	robot		