

## Self Appraisal

**Name and designation:** Shailaja Ravindra Kurode, Associatet Professor,  
 Department of Electrical Engineering.  
 College of Engineering Pune, Shivajinagar,Pune -05

### Education:

Degree	Area	Institute	Year	Remark
Ph.D.	Control	Indian Institute of Technology Bombay	2010	The CPI for course work 9.5
M.E.	Electrical Control System	Pune University	1998	First class with distinction Rank first
B.E.	Electronics and Power	Nagpur University	1985	First class
10+2	Science	Nagpur divisional board	1981	First class
10	General	Nagpur divisional board	1979	First class with distinction

*Engineering is my profession  
 Teaching & Research is my passion*

### Position Held:

Position	Institute/Organization	Duration
Associate Professor	College of Engineering Pune	Jan 1, 2006 till date
Deputed Research Scholar	IDP in Systems and Control IIT Bombay	July 2006-Dec 2009
Assistant Professor	College of Engineering Pune	July2001-June2006
Assistant Professor	College of Engineering Karad	April 2000-June 2001
Lecturer	College of Engineering Pune	Sept 1998-Mar 2000
Lecturer	Government Polytechnic Pune	July 1993-Aug 1998
Lecturer	Government Polytechnic Khamgaon	May 1992-June 1993
Lecturer	BD COE Sewagram-Wardha	July 1986-April 1992

### Courses/workshop attended:

Sr. No.	Name of course	Place	Duration
01	Practical Training at NTPS Eklahare	Eklahare-Nasik road	Jun2-27 , 1984
02	Induction Program Phase I	G.P. Pune	Aug1-25,1995 (4 weeks)
03	Computer Hardware Maintence	G.P.Mumbai	Oct 9-12,1995 (4 days)
04	Workshop on Development of OHP Transparencies for electrical Engineering	G. P. Nagpur	Jan 29-31, 1996
05	Switchgear and Protection	G.P. Pune	Jan.7-9,1996

06	Induction Program Phase II	G.P. Pune	Nov.18-Dec.6,96 (3weeks)
07	Control of Electric Drives	G.P.Nasik	Sept.8-12,1997( 1week)
08	Electrical Safty and Energy Conservation	G.P.Nagpur	June 8-June 12,1998 (1week)
09	Workshop on Solar Energy Engineering	COE Pune	March 13, 2001 (1 day)
10	Simulation of Power Electronic Systems	IIT Bombay	May 8-12, 2001(1 week)
11	Materials for the New Millennium	COE Pune	April 29-May27 2002 (4 week)
12	Microcontroller Applications in Power electronics	IIT Bombay	Jan.02-04,2003 (3 days)
13	DSP Hardware and Software in Power Electronics	IIT Bombay	May 05-16,2003 (2 weeks)
14	An Educational Workshop on Simulation Software	COE Pune	19-20 Sept. 2003
15	AICTE HED Program by Indian Heritage Academy	COE Pune	Sept.23-27, 2003
16	FDP on Enhancement of Administrative and Magerial Skills ubder TEQIP	COE Pune	One Day
16	Digital Control	IIT Bombay	June 20-24,2005 (1 week)
17	New Trends in Nonlinear Control	IIT Bombay	Jan 30-Feb3,2006 (1week)
18	Workshop on LaTeX	COE Pune	April 5-7, 2008
18	Winter School in Control	IIT Bombay	Jan25-29,2010 (1 week)
19	Spacecraft Attitude Dynamics and Control	IIT Bombay	May17-21,2010 (1 week)
20	Satellite Orbits: Applied Perturbation, Maintenance and Launch	IIT Bombay	May 31-June 04 2010(1 week)
21	Motion planning and coordination of autonomous robots	IIT Bombay	May 7-11,2012 .(1 Week)
22	National Workshop on fractional Calculus Fractional Calculus: Theory and Applications	Pune Univ.	Nov 5-7, 2012 (3 days)
23	A QIP Course on" Variable Structure and Sliding Mode Control: Concept, theory and applications	IIT Bombay	Jan 21-25, 2013 (1 Week)
24	International Summer University of Applied Sciences Wolfenbüttel on "Sustainable Energy Technologies" during May 5-18, 2013	Ostfalia Univ. Wolfenbuttel, Germany	May 5-13, 2013 (2 Weeks)
25	A QIP Course on" Embedded Control Systems"	IIT Bombay	May 12-19, 2014 ( 1 week)
26	Coordinator's workshop on "Control Systems"	IIT Kharagpur	Sept 12-18, 2014(1 week)
27	A QIP Course on "Advances in Variable Structure and Sliding Mode Control"	IIT Bombay	May28-June 1, 2015
28	TEQIP School on Systems and control	IIT Kanpur	Aug 4-9, 2015

**Courses/workshop organized:**

<b>Sr. No.</b>	<b>Name of course</b>	<b>Place</b>	<b>Duration</b>
01	A Workshop on Recent Trends in Electricity Pricing	COE Pune	Jan 30, Feb1,2005(3 days)
02	A workshop on Virtual Instrumentation	COE Pune	April 3-5, 2004,(3 Days)
03	ISTE-STTP on “Intelligent Control and Automation”	COE Pune	Jan 10-22, 2005,(2 week)
04	Workshop on LaTeX	COE Pune	Dec 6-10, 2010 (1 week)
05	Learning LaTeX for Technical Writing	COE Pune	Dec 5-9, 2011( 1week)
06	On Higher Order Sliding Mode Control lecture series	COE Pune	Apr. 2012 (1 Day)
07	CEP on LayTex: A Document Preparation System	COE Pune	Dec. 17-21, 2012( 1 Week)
08	Control Relevant Estimations	COE Pune	March 6-10 , 2013(1 Week)
09	Higher Order Sliding Mode Control	COE Pune	April 15-16,2013 Lecture series
10	A course on Fractional Order Modeling and Control	COE Pune	Jan-April 2013
11	A two week course on control system in collaboration with IIT Kharagpur	COE Pune	Dec 2-12, 2014

**Conferences attended:**

<b>Sr. No.</b>	<b>Conference Details..</b>	<b>Place</b>	<b>Duration</b>
1	Nat. Seminar on “ Recent Trends in Energy Efficient Lighting Systems	SATI Vidisha, M.P. India	5-6 Feb. 1999
2	Nat. Seminar on Emerging Converging Technologies & Systems	DEI Agra	1-2 Mar, 2002
3	Int. Conf. on “Recent Advances in Solar Energy Conversion Systems	MNIT Bhopal, M.P.India	Sept. 28-29, 2002
4	Nat. Seminar on “ Energy Efficient Electrical Apparatus & Systems	PVG COET Pune	Feb21-22, 2003
5	Int. Conf. on multidisciplinary Aspects of Engineering	COE Pune	Jan 7-8, 2005
6	Int. Conf. Systems Cybernetics & informatics	Hyderabad, India	Jan. 4-8, 2006
7	Int. Conf. on Avionics Systems	Hyderabad India	Feb 21-23, 2008
8	10 <sup>th</sup> Int. Workshop on Variablr Structures Systems, VSS 08	Antalya Turkey	June 8-10, 2008
9	Int. Conf. and Exhibition on Aerospace Engg 09,	I.I.S.C., Banglore	May 18-22, 2009
10	18 <sup>th</sup> IFAC World Congress	Milano, Itali	Aug18-

			Sept2, 2011
11	12 <sup>th</sup> Int. Workshop on VSS	I.I.T. Bombay	Jan12-14, 2012
12	2 <sup>nd</sup> Int. Conf. on advances in Control of Dynamical Systems ACODS 2012	IISC Bangalore	Feb 26-28 2012
13	3rd Int. Conf. on advances in Control of Dynamical Systems	I.I.T. Kanpur	, 2014

#### Seminars/talks Organized in last five years:

Sr. No.	Title of Seminar/Talk	Name of Speaker	Day
2	New research direction in control : Integral sliding mode and composite nonlinear feedback	Dr. B. Bandyopadhyay, I.I.T. Bombay	July 14, 2010
3	“Lyapunov Functions in Higher order Sliding Mode Control”	Dr. Issac Chairez Mexico	Jan. 28, 2011
4	Computational Electromagnetics	Dr. S.V. Kulkarni, I.I.T. Bombay	July 11, 2011
5	Introduction to Fractional Order Modeling and Control	Dr. V.Vyavahare,	Aug. 8, 2012
6	Possibilities of research direction	Dr. B. Bandyopadhyay, I.I.T. Bombay	July 22, 2012
7	Investigation of PG Project policies	Dr. A.K. Prakash , Eatons Pune	July 22, 2012
9	On Issues of Sliding Mode control	Dr. Shyamkamal IIT Bombay	Dec 25, 2014
10	On how to do research	Dr. Shyamkamal IIT Bombay	Dec 26, 2014
11	S function and its effective use in Matab simulation	Dr. A.A.Godbole AISS COE Pune	3 Nov , 2015

#### Outreach:

Sr. No.	Activity
1	Examiner of PG Thesis at Mumbai University, Autonomous institute and IIT Bombay
2	Interaction with faculty of Jadhavpur University
3	Collaboration with Industry and Elite Institute for Projects
4	Worked as selection committee expert member at WCE
5	Interaction with Maths Department, Pune University
6	Interaction with Pune University in the capacity of institute PhD Coordinator
7	Interaction with IIT for research work
8	Contributed in providing Lab facility to students of COE Baramati
9	Contributed in Syllabus designing of Pune University
10	Talks delivered at National and International level
11	Worked as BOS member SPPU during 2012-15
12	Reviewer of International Journals and conferences of repute
13	Contributed in teaching industry people (John Deer)

14	Contributed in inspection of of Engg. Colleges
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**Talks Delivered:**

<b>Sr. No.</b>	<b>Title of Seminar/Talk</b>	<b>Place</b>	<b>Day</b>
1	Discrete Sliding Mode Control and SMC Applications	At two week STTP on " Advanced Control" at WCE Sangali	Dec 2011
2	Maths made Simple in LaTeX	At workshop on "Technical report writing using LaTeX' organized at PVGCOET Pune	Feb 24, 2012
3	SMC Applications for control of under actuated systems	A QIP Course on" Variable Structure and Sliding Mode Control: Concept, theory and applications	Jan.24, 2013
4	SMC Application to slosh control	A QIP Course on" Variable Structure and Sliding Mode Control: Concept, theory and applications	Jan.25, 2013
5	On MATLAB Simulink	at SBCOE Indapur	Feb-13
6	Innovatins in Electrical Engineering Research	at MCOE Pune	Mar-13
7	On SMO based SMC for Uncertain Systems	At TUHH Hamberg Germany	14-May-13
8	LaTeX ..Maths	AISSPMs IOIT, Pune	Sept. 2013
9	LaTeX ..Maths	AISSPMS COE Pune	Oct.2013
10	Control of Underactuated Systems using Sliding Modes	FDP on " Advanced Control " jointly organized by COEP and IITB under TEQIP at COE Pune during Dec30, 13-Jan4, 2014	Jan 4, 2014
11	Slosh-free motion using SMC	FDP on " Advanced Control " jointly organized by COEP and IITB under TEQIP at COE Pune during Dec30, 13-Jan4, 2014	Jan 4, 2014
12	"dSPACE DS 1104.."	Keynote speech at SAE Pune	Jan-14
13	Digital Control Systems	PCOE Pune	27-Mar-14
14	On SMC theory and applications	AISSMS COE Pune	Apr. 4,2014
15	Maths Environment in LaTeX	3 day workshop on LaTeX at AISSMS COE Pune	20-Nov-14
16	Kaynote speech on "dSPACE use & application	SAE Pune	18-Jan-15
17	Talk on " Basics of Effective Project Report Writing"	Workshop on LaTeX at PVGCOET Pune	05-Nov-15

**Awards and Recognition:**

<b>Sr. No.</b>	<b>Awards and Recognition... Details</b>	<b>Year</b>
1	Rank 1 in M.E. in Electrical Control System at Pune University	1997
2	Appreciation from HOD for work for CoE	2002
3	Appreciation for contribution to COEP	2004
4	Appreciation from HOD for Course Virtual Instrumentation	2004
5	Recipient of Pride of Nation Award from I.I.F.S. Delhi	2009
6	Recognized PG Teacher and PhD Guide at Pune University for 2011-19	2011
7	Selected by INAE to work under INAE Fellow at IIT Bombay during 1/5/2011-30/6/2011	2011
8	Co-chaired session at IFAC world Congress held at Milano Itali during Aug 28-Sept 2, 2011	2011
9	Member of National Organizing committee for 12 th International Workshop VSS 12 organized at I.I.T. Bombay	2012
10	Chaired sessions at Int. Workshop on Variable Structure Systems (VSS 12) during Jan12-14, 2012 at I.I.T. Bombay	2012
11	Co-Chaired session at Int. Conf. on Advanced in Control and Optimization of Dynamic Systems ( ACODS 12) during Feb. 16-18, 2012 at I.I.S.C. Bangalore Bombay	2012
12	Biography published in Marquist,s Who,s Who in the world 31 st Edition	2013
13	BOS Member at university of Pune	2011-14
14	Co-Chaired session at Int. Conf. on Advanced in Control and Optimization of Dynamic Systems ( ACODS 14) during March , 2014 at IIT Kanpur	2014
15	Co-chaired session at Int. Conf. on transformations in Engineering Education during Jan 8-12, 2016, at COE Pune	2016
16	Reviewer of Int. Journals and conferences of repute	

**Professional Memberships:**

<b>Sr.no.</b>	<b>Name of professional body</b>	<b>Membership details</b>
01	Indian Society of Technical Education	LM -26348
02	The Institute of engineers India	M- 117116-6
03	IEEE member	91300013
04	IET member	100315578

**Administrative work:**

- PG Coordinator
- PhD Coordinator at Institute Level
- Faculty advisor M. Tech.
- Senate Member
- Examiner for various M.Tech, B.Tech dissertations, reports at various stages.
- Contributed in M.Tech. and B.Tech. academics
- Contributed in TEQUIP activity.
- EESA advisor.

**Research Interests:**

- Sliding mode control
- Control of under-actuated systems
- Solar Energy and applications
- Kinematics of robots and control

**Projects Guided in last five years:**

**UG: 9, PG 24.**

**No. of Phd candidates : 05 (Ongoing)**

**Appreciation of Work:**

- Appreciation of Profession every year consistently in last seven years
- Research work recognized at Google scholar
- Research work recognized at Research Gate

**Reach Projects:**

1. Design & Development of two degrees of freedom Electro- hydraulic Servo System (From CoE SRES)
2. Real Time Control of Linear Motors (From Alumni Association, COEP)

**List of Publications:****A book**

**Shailaja Kurode**, B. Bandyopadhyay and P. S. Gandhi, "[Output Feedback Control for Sloss-free Motion: A Sliding Mode Approach](#)", May 2011, Lambert Publication with No. 17960, and ISBN 978-3-8443-2438-9

**Papers in referred International Journals:**

Sr No	Paper Details
1	B. Bandyopadhyay, <b>S. Kurode</b> and P. S. Gandhi, " <a href="#">Sliding Mode Control for Sloss-free Motion-A Class of Underactuated System</a> ", International Journal of Advanced Mechatronic Systems, Vol. 1, No. 3, pp. 203-213, 2009. ISSN: V, DOI: 10.1504/IJAMEchS.2009.023203
2	B. Bandyopadhyay, P. S. Gandhi, and <b>S. Kurode</b> , " <a href="#">SlidingMode Observer Based Sliding Mode Controller for Sloss-Free Motion Through PID Scheme</a> ",IEEE Trans. Ind. Electron.,vol.56, no.9, pp. 3432-3442, Sept.2009.ISSN : 0278-0046 DOI:10.1109/TIE.2009.2026380
3	<b>Kurode, S.</b> ; Spurgeon, S.K. ; Bandyopadhyay, B. ; Gandhi, P.S. ," <a href="#">Sliding Mode Control for Sloss-free motion using nonlinear Sliding Surface</a> ", IEEE/ASME Trans. On Mechatronics, Vol. 18, No 2,Pp.714-724; ISSN: 1083-4435, DOI:10.1109/TMECH.2011.2182056 Apr 2013
4	<b>S Kurode</b> , P Dixit , " <a href="#">Sliding mode control of flexible link manipulator using states and disturbance estimation</a> ",Int. Journal of Adv. Mechatronic Systems, Vol.5, No. 2, pp. 129-137 DOI: 10.1504/IJAMECHS.2013.055980

5	VN Pande, UM Mate, <b>S Kurode</b> , " Discrete sliding mode control strategy for direct real and reactive power regulation of wind driven DFIG", Int. Journal of Electric Power Systems Research, Vol. 100, PP.73-81 , July 2013
6	JyotiPrakash Mishra, <b>Shailaja Kurode</b> , "A Robust Control Approach for Suppression of Container-Slosh using Output-feedback Based on Super-Twisting Algorithm" Int. Journal of Adv. Mechatronic Systems, Vol. 6, NO. 1, PP.24-35 DOI: 10.1504/IJAMECHS.2014.066925
7	Amruta Mujumdar, Bhadyashri Tamhane, <b>S. Kurode</b> , "Observer based Sliding Mode Control for a Class of Non-commensurate Fractional Order Systems" IEEE/ASME Transaction on Mechatronics. Vol.20 , Issue 5, PP2504-2512, Oct , 2015, DOI: 10.1109/TMECH.2014.2386914
8	Bhagyashri Tamhane, Dharamveer Singh, <b>Shailaja Kurode</b> , Prasad Parakhi, " Observer Based Control of Seeker System System of a Missile using Sliding Modes", Int. Ashian Journal of control Vol.18, No. 3, PP1-4 , 1/3/2015, DOI 10.102/asjc.1138

### Papers in International Conference Proceedings:

Sr. No.	Paper Details
1	<b>Shailaja Kurode</b> , " Solar Energy Conversion for Reactive Power Compensation ", Int. Conf.on Recent Advanced on Solar Energy Conversions, during Sept.28-29,2002 at MNIT Bhopal,India.
2	S.Kartha, <b>Shailaja Kurode</b> , " Analytical study of guiding an unmanned vehicle along optimal path in a two dimensional field using kinematic approach", Int. Conf. on Multidisciplinary aspects of Engineering, IMAE-05 during Jan.07-08, 2005 at Pune, India.
3	<b>R. Darla and S. Kurode</b> , " A Novel Embedded Maximum Power Point Tracker for PV Panels Using SEPIC Converter", Int. Conf. on Systemics, Cybernetics and Informatics, during Jan.04-08, 2006, pp.205-211, at Hyderabad, India.
4	<b>Shailaja Kurode</b> , B.Bandyopadhyay, P.S. Gandhi, "Sliding Mode Control using Robust Hyperplane Design for Slosh Problem," Proc. IEEE International Conference on Avionics Systems ( ICAS 2008), Hyderabad, India, pp. 101-106, 22-23rd Feb. 22-23, 2008.
5	<b>Shailaja Kurode</b> , B. Bandyopadhyay and P. S. Gandhi, "Sliding mode control for slosh-free motion of a container using partial feedback linearization", Proc. Workshop on Variable Structure Systems (VSS 2008), Antalya, Turkey, pp. 367-372, 8-10th June, 2008.
6	<b>Shailaja Kurode</b> , B. Bandyopadhyay and P. S. Gandhi, "Sliding mode Observer for slosh-state estimation in a moving container", Proc. on IEEE int. conference on industrial technology(ICIT 09), pp.1-6, 10-13 February 2009 Victoria Australia.
7	<b>Shailaja Kurode</b> , B. Bandyopadhyay and P. S. Gandhi, " Sliding mode Control of Slosh by Pitching Excitation", international conference IISC Centenary International Conference on Aerospace Engineering" 18-22 May 2009 at I.I.S.C. Bangalore ,India
8	<b>Shailaja Kurode</b> , Sarah Spurgeon, B. Bandyopadhyay, and P. S. Gandhi, "Sliding Mode Control for Slosh-free Motion using Nonlinear Sliding Surface" European Control Conference ECC'09, during 23-26 August 2009, at Budapest, Hungary.
9	<b>Shailaja Kurode</b> , B. Bandyopadhyay and P. S. Gandhi, " Robust control for slosh-free motion using integral sliding mode control" International conference IEEE IECON during Nov.7-10 2010 at Arizona USA
10	<b>Shailaja Kurode</b> , Asif Chalanga and B. Bandyopadhyay, " Swing-Up and Stabilization of Rotary Inverted Pendulum using Sliding Modes" 18 th IFAC world Congress during Aug 28-Sept. 2, 2011 at Milano Italy. PP 10685-10690.
11	<b>Shailaja Kurode</b> , B. Bandyopadhyay, Prasanna Gandhi, " Discrete Sliding Mode Control for a Class of Underactuated Systems." IEEE Industrial Electronics Society (IECON 2011) During Nov. 7-10, 2011 at Melbourne, Australia.



12	<b>Shailaja Kurode</b> , P. Trivedy, B. Bandyopadhyay and Prasanna Gandhi," <a href="#">Second order sliding mode control for a class of underactuated systems</a> ", 12 th Int. Workshop on Variable Structure Systems (VSS 12) during Jan 12-14, 2012 at I.I. T. Bombay India, PP. 458-462. DOI 10.1109/VSS.2012.6163545
13	P Thakar, B. Bandyopadhyay, P. Gandhi and <b>S. Kurode</b> ," <a href="#">Robust control of rotary slosh using Integral sliding modes</a> ", 12 th Int. Workshop on Variable Structure Systems (VSS 12) during Jan 12-14, 2012 at I.I. T. Bombay India, PP. 440-445, ISSN 2158-3978, DOI 10.1109/VSS.2012.6163542
14	<b>S. Kurode</b> , Tamhane B. Dharamveer , P. Dixit ," <a href="#">Robust control with simultaneous state and disturbance estimation using sliding modes</a> ", 12 th Int. Workshop on Variable Structure Systems (VSS 12) during Jan 12-14, 2012 at I.I. T. Bombay India, PP. 237-242. ISSN 2158-3978,DOI 10.1109/VSS.2012.6163508
15	<b>Shailaja Kurode</b> , B. Bandyopadhyay, Prasanna Gandhi," <a href="#">Discrete Output Feedback Control of a Class of Underactuated Systems</a> " , 2nd Int. Conference on Advances on control and optimization of dynamical systems (ACODS 12) during Feb. 16-18, 2012, at IISC Bangalore, India
16	<b>Shailaja Kurode</b> , and Prashant Dixit," <a href="#">Control of tip position of flexible link manipulator using sliding modes</a> ", 2nd Int. Conference on Advances on control and optimization of dynamical systems (ACODS 12) during Feb. 16-18, 2012, at IISC Bangalore, India.
17	B. Tamhane, <b>S. Kurode</b> , P. Parakhi and Dharamveer," <a href="#">Simultaneous state and disturbance estimation for seeker system using sliding modes</a> " Int. Conference on control automation and systems (ICCAS 12) during Oct. 17-21, 2012 at Jeju South Korea ., 978-1-4673-2274-8
18	Dharamveer, <b>Shailaja Kurode</b> , Prasad Parakhi and Bhagyashri Tamhane," <a href="#">Robust control for seeker scan loop using sliding modes</a> " Int. Conference on control automation and systems (ICCAS 12) during Oct. 17-21, 2012, at Jeju South Korea. 978-1-4673-2274-8
19	<b>Shailaja Kurode</b> , and Prashant Dixit," <a href="#">Output feedback control of flexible link manipulator using sliding modes</a> ", 7 <sup>th</sup> Int. Conference Electrical and Computer Engineering (ICECE 12) during Dec. 22-24, 2012, at Dhaka, Bangla Desh., DOI 10.1109/ICECE.2012.6471708 978-1-4673-1434-3
20	<b>S Kurode</b> , S Balajiwale," <a href="#">Discrete sliding mode control of seeker scan loop using adaptive reaching Law</a> ",IEEE Int. Conf. CCA, MSC 2013, during Aug.28-30, 2013 at Hyderabad, India, pp.704-709,ISSN: 1085-1992, DOI 10.1109/CCA.2013.6662832
21	A Mujumdar, <b>S Kurode</b> , B Tamhane ," <a href="#">Fractional order sliding mode control for single link flexible manipulator</a> ", IEEE Int. Conf. CCA, MSC 2013, during Aug.28-30, 2013 at Hyderabad, India, pp.288-293,ISSN: 1085-1992, DOI 10.1109/CCA.2013.6662773
22	<b>Shailaja Kurode</b> , Mohammed Merchant," <a href="#">Observer based control of flexible link manipulator using discrete sliding modes</a> "IEEE Int. Conf. CCA, MSC 2013, during Aug.28-30, 2013 at Hyderabad, India, pp.276-281,ISSN:1085-1992, DOI: 10.1109/CCA.2013.6662771
23	Chinmay Kirtane, Sachin Ghodke, <b>Shailaja Kurode</b> , Prakash A.K., D.N.Malkhede," <a href="#">Gear Shift Schedule Optimization and Drive Line Modeling for Automatic Transmission</a> ", Int. Conf. INACOMM 2013, during Dec.18-20, 2013 at IIT Roorki, India
24	Amruta Mujumdar and <b>Shailaja Kurode</b> , " <a href="#">Second Order Sliding Mode Control for Single Link Flexible Manipulator</a> " , Int. Conf. INACOMM 2013, during Dec.18-20, 2013 at IIT Roorki, India
25	Bhagyashri Tamhane and <b>S R Kurode</b> ," <a href="#">Estimation of States of Seeker System of a Missile using Sliding Mode Observer and Kalman filter approaches - A Comparative Study-</a> , Int. Conf. INACOMM 2013, during Dec.18-20, 2013 at IIT Roorki, India
26	<b>Shailaja Kurode</b> , Prasad G. Desai, Ashpana Shiralkar," <a href="#">Modeling of Electro-Hydraulic Servo Valve and Robust Position Control Using Sliding Mode Technique</a> ", Int. Conf. INACOMM 2013, during Dec.18-20, 2013 at IIT Roorki, India
27	Sarang P Lunge, <b>Shailaja Kurode</b> , Bhaskar Chhibber," <a href="#">Proportional Actuator on off Solenoid Valve using Sliding Modes</a> ", Int. Conf. INACOMM 2013, during Dec.18-20, 2013 at IIT Roorki, India
28	JyotiPrakash Mishra and <b>Shailaja Kurode</b> ," <a href="#">Output-Feedback Control for Stabilization of</a>

	<a href="#">Slosh using Higher Order Sliding Modes</a> ", 3rd Int. conf.on Advances in Control and Optimization of Dynamical Systems - ACODS 2014 to be held at IIT Kanpur, India during 13-15 March 2014. DOI 10.3182/20140313-3-IN-3024.00030
29	Bhagyashri Tamhane and <b>Shailaja Kurode</b> , " <a href="#">State and Disturbance Estimation using Higher Order Sliding Modes</a> ", 3rd Int. conf.on Advances in Control and Optimization of Dynamical Systems - ACODS 2014 to be held at IIT Kanpur, India during 13-15 March 2014, DOI 10.3182/20140313-3-IN-3024.00054
30	Amruta Mujumdar and <b>Shailaja Kurode</b> , " <a href="#">Control Of Two Link Flexible Manipulator Using Higher Order Sliding Modes</a> ", 3rd Int. conf.on Advances in Control and Optimization of Dynamical Systems - ACODS 2014 to be held at IIT Kanpur, India during 13-15 March 2014. DOI V10.3182/20140313-3-IN-3024.00055
31	Mujumdar A, Tamhane B, <b>Kurode S.</b> , " <a href="#">Fractional order modeling and control of a flexible manipulator using sliding modes</a> ", IEEE American Control Conference, held at Portlabd, America, during June4-6, 2014 . PP 2011-2016, DOI 10.1109/ACC.2014.6858955 , ISSN 0743-1619
32	<b>JP Mishra, S.R.Kurode</b> , " <a href="#">Levant differentiator based output-feedback control for slosh suppression using super-twisting algorithm</a> ", 26th Chinese <u>Control &amp; Decision Conference(CCDC 2014)</u> , held at China, during June 2014, DOI 10.1109/CCDC.2014.6852352 , 978-1-4799-3707-3
33	<b>JP Mishra, S.R.Kurode</b> , " <a href="#">Robust output-feedback control for container-slosh system using Variable Gain Super-twisting Algorithm</a> ", 13 th Int conf. on Variable Structure System held at Paris France during June 29 2014-July 2 2014, DOI: 10.1109/VSS.2014.6881114
34	Bhagyashri Tamhane, Amruta Mujumdar and <b>S. Kurode</b> , " <a href="#">Mismatched disturbance estimation and compensation for seeker system using higher order sliding mode control</a> " ,13 th Int conf. on Variable Structure System held at Paris France during June 29 2014-July 2 2014, DOI: 10.1109/VSS.2014.6881114
35	<b>JP Mishra, S.R.Kurode</b> , " <a href="#">A third order sliding modes based output-feedback control for stabilization of container-slosh</a> ", 14 th Int conf. on Control, Automation and Systems (ICCAS), 2014 held at Kintex, South Koeria, during Oct 22-25, 2014, PP. 661-666, ISSN 2093-7121, DOI:10.1109/ICCAS.2014.6987863
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9	Amruta Mujumdar and <b>Shailaja Kurode</b> ," <a href="#">Fractional Order PID Controller for Position Control of a DC Motor</a> ", Nat. Conf. on Advanced Elect. Engg at BVCOE Pune, May 2013

#### **Contribution to Society:**

- Worked as president of Ojas Housing Society
- Implemented energy saving scheme to our own society
- Wrote and directed dramas " Recharge" and " Prakashacya Shodhat" for children of society for competition Ganrang in 2012, and 2013