

FACULTY PROFILE

Name : R. SAKTHIVEL
Designation : Professor
Email ID : sakthivel.sh@srit.org
Area of Specialization : Systems and Control Theory,
Computational Intelligence,
Nonlinear Systems



Total Experience : 16 Years & 6 Months Academic : 16 Years & 6 Months
Industry : --

Educational Qualification:

Degree	Branch / Specialization	College	University
Ph.D.	Control Theory	Bharathiar University	Bharathiar University
M.Phil.	Control Theory	Bharathiar University	Bharathiar University
M.Sc.	Mathematics	NGM College	Bharathiar University
B.Sc.	Mathematics	NGM College	Bharathiar University

Experience Details:

S. No	Institution/Industry	Design.	Experience		Total Years & Months
			From	To	
1	Sri Ramakrishna Institute of Technology	Professor	04.09.2013	Till date	2 Years & 5 Months
2	Sungkyunkwan University	Associate Professor	01.04.2012	31.08.2013	1 Year & 5 Months
3	Sungkyunkwan University	Assistant Professor	01.03.2008	31.03.2012	4 Years & 1 Month

4	Pohang University of Science and Technology	Brainpool Post-Doctoral Researcher	01.04.2006	22.02.2008	1 Year & 10 Months
5	Yonsei University	Research Professor	02.07.2005	28.02.2006	7 Months
6	Kyushu Institute of Technology	JSPS Post-Doctoral Researcher	24.04.2003	23.04.2005	2 Years
7	Inha University	Post-Doctoral Researcher	01.10.2001	28.02.2003	1 Year & 4 Months
8	Sri Krishna College of Engineering and Technology	Lecturer	29.06.2000	09.08.2001	1 Year & 1 Month
9	Bharathiar University	Senior Research Fellow	08.08.1997	30.05.2000	2 Years & 9 Months
Total (as on Feb 2016)					16 Years & 6 Months

Funded Projects:

S. No.	Funding Agency	Topic	Amount Sanctioned in Rs.	Year of Sanction
1	National Research Foundation (NRF)	Stability and Controllability of Nonlinear Stochastic Equations	75,00,000	2010
2	National Board for Higher Mathematics (DAE)	Stabilization of Uncertain Dynamical Systems by Robust Reliable Control	9,67,500	2014

Patents (Specify the details): --

Publications : 186

Journals :

National / International	Topic	Journal	Year of Publication
International	Finite-time boundedness and dissipativity analysis of networked cascade control systems	Nonlinear Dynamics (Accepted)	2016
International	Robust reliable dissipative filtering for Markovian jump nonlinear systems with uncertainties	International Journal of Adaptive Control and Signal Processing (Accepted)	2016
International	Robust sampled-data PI controller design for networked control systems	Journal of the Franklin Institute (Accepted)	2016
International	Reliable dissipative control of high-speed train with probabilistic time-varying delays	International Journal of Systems Science (Accepted)	2016
International	Robust finite-time passivity for discrete-time genetic regulatory networks with Markovian jumping parameters	Z.Naturforsch.A, (Journal of Physical Sciences) (Accepted)	2016
International	On certain exact solutions of diffusive predator-prey system of fractional order	Chinese Journal of Physics (Accepted)	2016
International	Synchronization of complex dynamical networks with uncertain inner coupling and successive delays based on passivity theory	Neurocomputing (Accepted)	2016
International	Sobolev-type fractional stochastic differential equations with non-Lipschitz coefficients	Journal of Computational and Applied Mathematics (Accepted)	2016
International	Robust reliable sampled-data control for switched systems with application to flight control	International Journal of Systems Science (Accepted)	2016
International	Approximate controllability of fractional stochastic differential inclusions with nonlocal conditions	Applicable Analysis (Accepted)	2016
International	Ion acoustic solitary waves in plasmas with nonextensive distributed electrons, positrons and relativistic thermal ions	Indian Journal of Physics (Accepted)	2016
International	Neutral stochastic integrodifferential equations driven by a fractional Brownian motion with impulsive effects and time-varying delays	Mediterranean Journal of Mathematics (Accepted)	2016
International	Some new electrostatic potential functions to analyze the ion-acoustic waves in Thomas Fermi	Chinese Journal of Physics (Accepted)	2016

	plasma with degenerate electrons		
International	Robust reliable H^∞ control for fuzzy systems with random delays and linear fractional uncertainties	Fuzzy Sets and Systems (Accepted)	2015
International	Reliable gain-scheduled control of discrete-time systems and its application to CSTR model	International Journal of Systems Science (Accepted)	2015
International	Reliable H^∞ stabilization of fuzzy systems with random delay via nonlinear retarded control	Circuit Systems and Signal Processing (Accepted)	2015
International	Stabilization of discrete-time fuzzy systems via delta operators and its application to truck-trailer model	Circuit Systems and Signal Processing (Accepted)	2015
International	Dissipative sampled-data control of uncertain nonlinear systems with time-varying delays	Complexity (Accepted)	2015
International	Reliable dissipative sampled-data control for uncertain systems with actuator failures and application to vehicle dynamics	IMA Journal of Mathematical Control and Information (Accepted)	2015
International	Fault-tolerant sampled-data mixed H^∞ and passivity control of stochastic systems and its application	Complexity (Accepted)	2015
International	Robust sampled-data control of uncertain switched neutral systems with probabilistic input delay	Complexity (Accepted)	2015
International	Delay-dependent robust reliable control for uncertain switched neutral systems	Complexity (Accepted)	2015
International	Reliable dissipative sampled-data control for uncertain systems with nonlinear fault input	Journal of Computational and Nonlinear Dynamics 11, 041008	2016
International	Non-fragile H^∞ synchronization of memristor-based neural networks using passivity theory	Neural Networks 74, 85-100	2016
International	Novel results on robust finite-time passivity for discrete-time delayed neural networks	Neurocomputing 177 585-593	2016
International	Stochastic functional differential equations of Sobolev-type with infinite delay	Statistics & Probability Letters 109, 68-77	2016
International	Multiobjective optimization technique for demand side management with load balancing approach in smart grid	Neurocomputing 177, 110-119	2016

International	Robust reliable H^∞ control for discrete-time systems with actuator delays	Asian Journal of Control 18, 1-10	2016
International	Reliable mixed H^∞ and passivity-based control for fuzzy Markovian switching systems with probabilistic time delays and actuator failures	IEEE Transactions on Cybernetics 45, 2720-2731	2015
International	Robust reliable control design for networked control system with sampling communication	International Journal of Control 88, 2510-2522	2015
International	Robust $L_2 - L^\infty$ control for uncertain systems with additive delay components	Circuit Systems and Signal Processing 34, 2819-2838	2015
International	H^∞ filtering for impulsive networked control systems with random packet dropouts and randomly occurring nonlinearities	International Journal of Robust and Nonlinear Control 25, 1767-1782	2015
International	Mixed H^∞ and passive control for singular Markovian jump systems with time delays	Journal of the Franklin Institute 352, 4446-4466	2015
International	Combined H^∞ and passivity state estimation of memristive neural networks with random gain fluctuations	Neurocomputing 168, 1111-1120	2015
International	Non-fragile observer-based H^∞ control for discrete-time systems using passivity theory	Circuit Systems and Signal Processing 34, 2499-2516	2015
International	Observer-based control for switched networked control systems with missing data	International Journal of Machine Learning and Cybernetics, 6, 677-686	2015
International	Dissipative analysis and synthesis of control for TS fuzzy Markovian jump neutral systems	Mathematical Problems in Engineering, 2015 Article ID 364184, 14 pages	2015
International	Non-fragile synchronization of memristive BAM networks with random feedback gain fluctuations	Communications in Nonlinear Science and Numerical Simulation 29, 427-440	2015
International	New results on passivity-based H^∞ control for networked cascade control systems with application to power plant boiler-turbine system	Nonlinear Analysis: Hybrid Systems 17, 56-69	2015
International	Dissipative reliable controller design for uncertain systems and its application	Applied Mathematics and Computation 263, 107-121	2015

International	Synchronization for delayed memristive BAM neural networks using impulsive control with random nonlinearities	Applied Mathematics and Computation 259, 967-979	2015
International	Robust fault-tolerant H^∞ control for offshore steel jacket platforms via sampled-data approach	Journal of the Franklin Institute 352, 2259-2279	2015
International	Interval type-2 fuzzy control for nonlinear discrete-time systems with time-varying delays	Neurocomputing 157, 22-32	2015
International	Robust reliable H^∞ control for stochastic neural networks with randomly occurring delays	Neurocomputing 149, 1524-1534	2015
International	Design of state estimator for bidirectional associative memory neural networks with leakage delays	Information Sciences 296, 263-274	2015
International	Fault-tolerant sampled-data control of flexible spacecraft with probabilistic time delays	Nonlinear Dynamics 79, 1835-1846	2015
International	Reliable stabilization for memristor-based recurrent neural networks with time-varying delays	Neurocomputing 153, 140-147	2015
International	Exponential H^∞ filtering for discrete-time switched neural networks with random delays	IEEE Transactions on Cybernetics 45, 676-687	2015
International	Sampled-data state estimation for genetic regulatory networks with time-varying delays	Neurocomputing 151, 737-744	2015
International	Exponential synchronization for fractional-order chaotic systems with mixed uncertainties	Complexity 21, 114-125	2015
International	Non-densely defined impulsive neutral stochastic functional differential equations driven by a fBm in a Hilbert space with infinite delay	Frontiers of Mathematics in China 10, 351-365	2015
International	Observer-based dissipative control for networked control systems: A switched system approach	Complexity 21, 297-308	2015
International	Robust reliable control for uncertain vehicle suspension systems with input delays	Journal of Dynamic Systems, Measurement and Control 137, 041013	2015
International	Reliable gain-scheduled control design for networked control systems	Complexity 21, 214-228	2015
International	Robust reliable sampled-data H^∞ control for uncertain stochastic systems with random delay	Complexity 21, 42-58	2015

International	Robust sampled-data H^∞ control for mechanical systems	Complexity 20, 19-29	2014
International	Robust reliable control for neutral-type nonlinear systems with time-varying delays	Reports on Mathematical Physics 74, 181-203	2014
International	Robust reliable sampled-data control for offshore steel jacket platforms with nonlinear perturbations	Nonlinear Dynamics 78, 1109-1123	2014
International	Impulsive neutral stochastic functional integro-differential equations with infinite delay driven by fBm	Applied Mathematics and Computation 247, 205-212	2014
International	Exact solution of the Wick-type stochastic fractional coupled KdV equations	Journal of Mathematical Chemistry 52, 2482-2493	2014
International	Robust control for fuzzy nonlinear uncertain systems with discrete and distributed time delays	Z.Naturforsch.A, (Journal of Physical Sciences) 69a, 569-580	2014
International	Exact travelling wave solutions of variety of Boussinesq-like equations	Chinese Journal of Physics 52, 939-957	2014
International	Robust stochastic stability of discrete-time fuzzy Markovian jump neural networks	ISA Transactions 53, 1006-1014	2014
International	Reliable robust control design for uncertain mechanical systems	Journal of Dynamic Systems, Measurement and Control 137, 1-11	2014
International	Approximate controllability of fractional functional equations with infinite delay	Topological Methods in Nonlinear Analysis 43, 345-364	2014
International	Robust exponential stability and H^∞ control for switched neutral-type neural networks	International Journal of Adaptive Control and Signal Processing 28, 429-443	2014
International	Robust reliable dissipative filtering for networked control systems with sensor failure	IET-Signal Processing 8, 809-822	2014
International	A note on the second-order non-autonomous neutral stochastic evolution equations with infinite delay under Carathéodory conditions	Applied Mathematics and Computation 232, 658-665	2014

International	Robust mixed H^∞ and passive filtering for networked Markov jump systems with impulses	Signal Processing 101, 162-173	2014
International	Exact travelling wave solutions of two important nonlinear partial differential equations	Z.Naturforsch.A, (Journal of Physical Sciences) 69a, 155-162	2014
International	Exponential state estimation for discrete-time switched genetic regulatory networks with random delays	Canadian Journal of Physics 92, 1-11	2014
International	Delay-Dependent H^∞ State Estimation of Neural Networks With Mixed Time-Varying Delays	Neurocomputing 129, 392-400	2014
International	Robust state estimation for discrete-time BAM neural networks with time-varying delay	Neurocomputing 131, 171-178	2014
International	Existence of almost automorphic mild solutions to non-autonomous neutral stochastic differential equations	Applied Mathematics and Computation 230, 639-649	2014
International	Robust stochastic stability of discrete-time Markovian jump neural networks with leakage delay	Z.Naturforsch.A, (Journal of Physical Sciences) 69a, 70-80	2014
International	Fault-distribution dependent reliable H^∞ control for TS fuzzy systems	Journal of Dynamic Systems, Measurement and Control 136, 021021	2014
International	Delay fractioning approach to robust exponential stability of fuzzy Cohen-Grossberg neural networks	Applied Mathematics and Computation 230, 451-463	2014
International	New stability criteria for stochastic Takagi-Sugeno fuzzy systems with time-varying delays	Journal of Dynamic Systems, Measurement and Control 136, 021013	2014
International	Existence and stability results for second-order stochastic equations driven by fractional Brownian motion	Transport Theory and Statistical Physics 42, 1-19	2013
International	Approximate controllability of fractional functional evolution inclusions with delay in Hilbert spaces	IMA Journal of Mathematical Control and Information 3, 363-383	2013
International	On time-dependent stochastic evolution equations driven by fractional Brownian motion in a Hilbert space with finite delay	Mathematical Methods in the Applied Sciences 37, 2177-2184	2013

International	Direct approach for solving nonlinear evolution and two point boundary value problems	Pramana Journal of Physics 81, 893-909	2013
International	Linear matrix inequality approach to stochastic stability uncertain BAM neural networks	IMA Journal of Applied Mathematics 78, 1156-1178	2013
International	Control, stability, and qualitative theory of dynamical systems	Abstract and Applied Analysis 2013, Article ID 792518, 2 pages	2013
International	Approximate controllability of fractional nonlinear differential inclusions	Applied Mathematics and Computation 225, 708-717	2013
International	Robust state estimation for discrete-time genetic regulatory networks with randomly occurring uncertainties	Nonlinear Dynamics 74, 1297-1315	2013
International	New LMI-based passivity criteria for neutral-type BAM neural networks with randomly occurring uncertainties	Reports on Mathematical Physics 72, 263-284	2013
International	Stochastic functional differential equations with infinite delay driven by G-Brownian motion	Mathematical Methods in the Applied Sciences 36, 1746-1759	2013
International	Admissibility analysis and control synthesis for descriptor systems with random abrupt Changes	Applied Mathematics and Computation 219, 9717-9730	2013
International	Approximate controllability of stochastic differential system driven by a Levy process	International Journal of Control 86, 1158-1164	2013
International	Robust state estimation for uncertain fuzzy BAM networks with time varying delays	Physica Scripta 88, 035008	2013
International	State estimation for switched discrete-time stochastic BAM neural networks with time varying delay	Nonlinear Dynamics 73, 1565-1585	2013
International	Approximate controllability of fractional differential equations with state-dependent delay	Results in Mathematics 63, 949-963	2013
International	Approximate controllability of nonlinear fractional dynamical systems	Communications in Nonlinear Science and Numerical Simulation 18, 3498-3508	2013

International	Controllability of neutral fractional functional equations with impulses and infinite delay	Abstract and Applied Analysis 2013, Article ID 901625, 12 pages	2013
International	Approximate controllability of fractional integrodifferential evolution equations	Journal of Applied Mathematics 2013, Article ID 291816, 7 pages	2013
International	Existence of solutions for nonlinear fractional stochastic differential equations	Nonlinear Analysis Theory Methods & Applications 81, 70-86	2013
International	New travelling wave solutions for nonlinear stochastic evolution Equations	Pramana Journal of Physics 80, 917-931	2013
International	Asymptotic stability of fractional stochastic neutral differential equations with infinite delays	Abstract and Applied Analysis 2013, Article ID 769257, 9 pages	2013
International	Exact traveling wave solutions for some important nonlinear physical models	Pramana Journal of Physics 80, 757-769	2013
International	New passivity criteria for fuzzy BAM neural networks with Markovian jumping parameters and time-varying delays	Reports on Mathematical Physics 71, 69-71	2013
International	Robust stabilization and H_∞ control for discrete-time stochastic genetic regulatory networks with time delays	Canadian Journal of Physics 90, 939-953	2012
International	Robust H_∞ control for uncertain discrete-time stochastic neural networks with time-varying delays	IET Control Theory & Applications 6, 1220-1228	2012
International	Robust stabilization of nonlinear uncertain Takagi-Sugeno fuzzy systems by H_∞ control	IET Control Theory & Applications 6, 2556-2566	2012
International	Delay dependent robust stabilization and H_∞ Control for neural networks with various activation functions	Physica Scripta 85, 045801	2012
International	Robust stability and control for uncertain neutral time delay systems	International Journal of Control 85, 373-383	2012
International	Existence, uniqueness and stability of mild solutions for second-order neutral stochastic evolution equations with infinite delay and Poisson jumps	Journal of Mathematical Physics 53, 073517	2012

International	Exponential stability result for discrete-time stochastic fuzzy uncertain neural networks	Physics Letters A 376, 901-912	2012
International	New robust exponential stability results for discrete-time switched fuzzy neural networks with time delays	Computers & Mathematics with Applications 64 (2012) 2926-2938	2012
International	Design of robust controller on stabilization of stochastic neural networks with time varying delays	Physica Scripta 85, 035003	2012
International	Robust stability criteria for discrete-time switched neural networks with various activation functions	Applied Mathematics and Computation 218, 10803-10816	2012
International	Approximate controllability of fractional neutral stochastic system with infinite delay	Reports on Mathematical Physics 70, 291-311	2012
International	New exact travelling wave solutions of some nonlinear higher dimensional physical models	Reports on Mathematical Physics 70, 39-50	2012
International	Exponential stability of second-order stochastic evolution equations with Poisson jumps	Communications in Nonlinear Science and Numerical Simulation 17, 4517-4523	2012
International	Controllability for a class of fractional-order neutral evolution control systems	Applied Mathematics and Computation 218, 10334-10340	2012
International	Exact travelling wave solutions for some nonlinear (N+1)-dimensional evolution equations	Computational & Applied Mathematics 31, 219-243	2012
International	Existence of pseudo almost automorphic mild solutions to stochastic fractional differential equations	Nonlinear Analysis Theory Methods & Applications 75, 3339-3347	2012
International	Numerical solution of hybrid fuzzy differential equations using improved predictor-corrector method	Communications in Nonlinear Science and Numerical Simulation 17, 3788-3794	2012
International	Approximate controllability of fractional stochastic evolution equations	Computers & Mathematics with Applications 63, 660-668	2012

International	New robust passivity criteria for discrete-time genetic regulatory networks with Markovian jumping parameters	Canadian Journal of Physics 90, 107-118	2012
International	New robust passivity criteria for stochastic fuzzy BAM neural networks with time-varying delays	Communications in Nonlinear Science and Numerical Simulation 17, 1392-1407	2012
International	On the approximate controllability of semilinear fractional differential systems	Computers & Mathematics with Applications 62, 1451-1459	2011
International	Exponential stability for delayed stochastic bidirectional associative memory neural networks with Markovian jumping and impulses	Journal of Optimization Theory & Applications 150, 166-187	2011
International	Design of a passification controller for uncertain fuzzy Hopfield neural networks with time-varying delays	Physica Scripta 84, 045024	2011
International	Robust passivity analysis of fuzzy Cohen-Grossberg BAM neural networks with time-varying delays	Applied Mathematics and Computation 218, 3799-3809	2011
International	Complete controllability of stochastic evolution equations with jumps	Reports on Mathematical Physics 68, 163-174	2011
International	Approximate controllability of the nonlinear third-order dispersion equation	Applied Mathematics and Computation 217, 8507-8511	2011
International	New stability and stabilization criteria for fuzzy neural networks with various activation functions	Physica Scripta 84, 015007	2011
International	New exact travelling wave solutions of bidirectional wave equations	Pramana Journal of Physics 76, 819-829	2011
International	Exact solutions of Wick-type stochastic equations with variable coefficients	Reports on Mathematical Physics 67, 415-429	2011
International	Controllability of impulsive neutral stochastic functional differential inclusions with infinite delay	Journal of Computational and Applied Mathematics 235, 2603-2614	2011
International	Stability of impulsive Hopfield neural networks with Markovian switching and time-varying delays	International Journal of Applied Mathematics and Computer Science 21,	2011

		127-135	
International	Exact travelling wave solutions of Schamel-Korteweg-de Vries equation	Reports on Mathematical Physics 68, 153-161	2011
International	Approximate controllability of impulsive differential equations with state-dependent delay	International Journal of Control 83, 387-393	2010
International	Asymptotic stability of delayed stochastic genetic regulatory networks with impulses	Physica Scripta 82, 055009	2010
International	New exponential stability criteria for stochastic BAM neural networks with impulses	Physica Scripta 82, 045802	2010
International	Asymptotic stability of stochastic delayed recurrent neural networks with impulsive effects	Journal of Optimization Theory and Applications 147, 583-596	2010
International	Approximate controllability of nonlinear deterministic and stochastic systems with unbounded delay	Taiwanese Journal of Mathematics 14, 1777-1797	2010
International	New travelling wave solutions of Burgers equation with finite transport memory	Z.Naturforsch.A, (Journal of Physical Sciences) 65a, 633-640	2010
International	A general approach to hyperbolic partial differential equations by Homotopy Perturbation Method	International Journal of Computer Mathematics 87, 2601-2606	2010
International	Approximate controllability of second order stochastic differential equations with impulsive effects	Modern Physics Letters B 24, 1-14	2010
International	Asymptotic stability of second-order neutral stochastic differential equations	Journal of Mathematical Physics 51, 052701	2010
International	New soliton solutions of Chaffee-Infante equations using the Exp-Function Method	Z.Naturforsch.A, (Journal of Physical Sciences) 65a, 197-202	2010
International	Exponential stability for stochastic neural networks of neutral type with impulsive effects	Modern Physics Letters B 24, 1099-1110	2010
International	Stability analysis for discrete-time stochastic neural networks with mixed time delays and impulsive effects	Canadian Journal of Physics 88, 885-898	2010

International	Traveling wave solutions for (N+1)-dimensional nonlinear evolution equations	Pramana Journal of Physics 75, 565-578	2010
International	Homotopy perturbation technique for solving two-point boundary value problems-comparison with other methods	Computer Physics Communications 181, 1021-1024	2010
International	Exact traveling wave solutions of a higher-dimensional nonlinear evolution equation	Modern Physics Letters B 24, 1011-1021	2010
International	Travelling wave solutions for time-delayed nonlinear evolution equations	Applied Mathematics Letters 23, 527-532	2010
International	Existence results for fractional order semilinear integro-differential evolution equations with infinite delay	Integral Equations and Operator Theory 67, 19-33	2010
International	New soliton and periodic solutions for two nonlinear physical models	Z.Naturforsch.A, (Journal of Physical Sciences) 65a, 1049-1054	2010
International	Robust stabilization of the Korteweg-de Vries-Burgers equation by boundary control	Nonlinear Dynamics 58, 739-744	2009
International	Controllability of nonlinear impulsive Ito type stochastic systems	International Journal of Applied Mathematics and Computer Science 19, 589-595	2009
International	Approximate controllability of impulsive stochastic evolution equations	Funkcialaj Ekvacioj 52, 381-393	2009
International	Existence and uniqueness of mild solutions for semilinear integro-differential equations of fractional order with nonlocal conditions	Semigroup Forum 79, 507-514	2009
International	Approximate Controllability of impulsive differential inclusions with nonlocal conditions	Dynamic Systems and Applications 18, 637-654	2009
International	Exact traveling wave solutions for some nonlinear evolution equations	Communications in Mathematical Sciences 7, 1053-1062	2009
International	Asymptotic stability of impulsive stochastic partial differential equations with infinite delays	Journal of Mathematical Analysis and Applications 356, 1-6	2009
International	On controllability of second-order nonlinear impulsive differential systems	Nonlinear Analysis, Theory Methods &	2009

		Applications 71, 45-52	
International	Controllability of non-linear impulsive stochastic systems	International Journal of Control 82 (2009) 801-807	2009
International	Asymptotic stability of nonlinear impulsive stochastic differential equations ₂	Statistics & Probability Letters 79, 1219-1223	2009
International	Global asymptotic stability of BAM neural networks with mixed delays and impulses	Applied Mathematics and Computation 212, 113-119	2009
International	Approximate controllability of second order systems with State-dependent delay	Numerical Functional Analysis and Optimization 29, 1347-1362	2008
International	New solitary wave solutions of some nonlinear evolution equations with distinct physical structures	Reports on Mathematical Physics 62, 389-398	2008
International	Unscented Fast SLAM: A Robust and Efficient Solution to the SLAM Problem	IEEE Transactions on Robotics 24, 808-820	2008
International	Existence results for impulsive evolution differential equations with state-dependent delay	Electronic Journal of Differential Equations 2008, 1-11	2008
International	On controllability of nonlinear impulsive integrodifferential systems	DCDIS-Series A Mathematical Analysis 15 (2008) 333-343	2008
International	Approximate controllability of nonlinear impulsive differential systems	Reports on Mathematical Physics 60, 85-96	2007
International	Nonlinear robust boundary control of the Kuramoto-Sivashinsky equation	IMA Journal of Mathematical Control and Information 24, 47-55	2007
International	On controllability of nonlinear stochastic systems	Reports on Mathematical Physics 58, 437-447	2006
International	Existence and controllability result for semilinear evolution integrodifferential systems	Mathematical and Computer Modelling 41, 1005-1011	2005

International	Controllability result for nonlinear evolution integrodifferential systems	Applied Mathematics Letters 17, 1015-1023	2004
International	A study on controllability of semilinear integrodifferential systems in Banach spaces	Computers and Mathematics with Applications 47, 519-527	2004
International	Controllability of nonlinear neutral evolution integrodifferential systems	Journal of Mathematical Analysis and Applications 275, 402-417	2002
International	Existence results for semilinear differential equations	Journal of the Korean Mathematical Society 39, 775-782	2002
International	Controllability of Sobolev-type Volterra integrodifferential systems and its applications	International Journal of Computational and Numerical Analysis and Applications 2, 283-301	2002
International	Controllability of quasilinear integrodifferential systems in Banach spaces	Nihonkai Mathematical Journal 12, 1-9	2001
International	Controllability of integrodifferential systems in Banach spaces	Applied Mathematics and Computation 118, 63-71	2001
International	Controllability of functional semilinear integrodifferential systems in Banach spaces	Journal of Mathematical Analysis and Applications 255, 447-457	2001
International	A Note on controllability of semilinear integrodifferential systems in Banach spaces	Journal of Applied Mathematics and Stochastic Analysis 13, 161-170	2000
International	Controllability of semilinear functional integrodifferential systems in Banach spaces	Kybernetika 36, 465-476	2000
International	Controllability of neutral functional integrodifferential systems in Banach spaces	Computers & Mathematics with Applications 39, 117-126	2000
International	Existence of solutions of neutral functional integrodifferential equation in Banach spaces	Proceedings of the Indian Academy of Sciences (Mathematical Sciences) 109, 325-332	1999
International	Controllability of Sobolev-type semilinear integrodifferential systems in Banach spaces	Applied Mathematics Letters 12, 63-71	1999

International	Controllability of delay functional integrodifferential systems in Banach spaces	Nonlinear Functional Analysis and Applications 4, 107-117	1999
International	Controllability of delay integrodifferential systems in Banach spaces	Libertas Mathematica 18, 119-127	1998

Seminar, Conference, Workshop Attended:

PARTICULARS	Title	Date	Venue
As Jury	-	-	-
Participated	Sixth International Conference on Dynamic Systems and Applications	May 25-28, 2011	USA
	Quantitative Methods in Finance (QMF) conference	Dec. 14-17, 2005	AUSTRALIA
	Sixth IFAC Symposium on Nonlinear Control Systems	Sep. 1-3, 2004	GERMANY
	SICE 4th Annual Conference on Control Systems	May 4-6, 2004	JAPAN
	8th International Conference on Nonlinear Functional Analysis and applications	Aug. 4-9, 2004	KOREA
	INHA Symposium on Nonlinear Analysis and Related Topics	Oct. 17-18, 2003	KOREA
	32nd SICE Symposium on Control Theory	Nov. 5-7, 2003	JAPAN
	International Congress of Mathematics	Aug. 20-28, 2002	CHINA
	Sixth International Conference on Nonlinear Functional Analysis and applications	Sep. 1-5, 2000	KOREA

PARTICULARS	Title	Date	Venue
As Jury	--	--	--
Invited Talk	Advances in Differential Equations and Applications	December 4 & 5, 2014	SALEM
	Advanced School on Analysis and Information Workshop on Mathematical Modelling and Dynamical Systems	27 th February – 3 rd March, 2013	DINDIGUL
Participated	Eighth Ramanujan Symposium on Recent Developments in Nonlinear Systems	February 14-16, 2001	CHENNAI
	National Level Conference on Recent Advances in Mathematics	February 1-3, 2000	BURDWAN
	86th Session of the Indian Science Congress Association	January 3-7, 1999	CHENNAI
	National Level Conference on Mathematics	February 27-28, 1999	GOBICHETTIPALAYAM
	85th Session of the Indian Science Congress	January	HYDREBAD

	Association	3-7, 1998	
	64th Annual Conference of the Indian Mathematical Society	December 19-22, 1998	HARDWAR

Ph.D., Guidance / Supervisor ship:

Name of Scholar	Course	Area of Research	Status
P. Revathi	Ph.D.	Existence and uniqueness of solutions of PDE	Degree Awarded
S. Selvi	Ph.D.	Robust control design for dynamical systems	Degree Awarded
R. Rathika	Ph.D.	Robust Control Systems	Synopsis Submitted
L. Maragatham	Ph.D.	Dynamical control systems	Confirmation Completed
K. Muralitharan	Ph.D.	Web-appliances in Smart-grid	Confirmation Completed
N. Dhanalakshmi	Ph.D.	Piecewise-affine Control Systems	Confirmation Completed
B. Kaviarasan	Ph.D.	Reliable Control Systems	Under Course Work
S.A. Karthick	Ph.D.	Control design of Biological models	Under Course Work

Guest Lectures Delivered:

Topic	Institution	Date(s)
Robust control for nonlinear PDEs	Yonsei University, South Korea	June 2002
Controllability of differential Systems	Pusan National University, South Korea	June 2002
Robust control design for Burger's equations	Kagoshima University, Japan	October 2003
Controllability of nonlinear dynamical systems	Inha University, South Korea	August 2004

Control design for partial differential systems	Anhui Normal University, China	December 2010
Robust H_{∞} control of uncertain mechanical systems	Gandhigram Rural Institute – Deemed University, India	February 2013
Robust reliable control of networked control systems	Institute of Cyber-Systems and Control, Zhejiang University, China	December 2013
Robust Control for a class of uncertain dynamical systems	Indian Institute of Science Education and Research, India	January 10, 2014
Reliable Control design for dynamical systems	Indian Institute of Technology, India	March 24, 2015

Membership in Professional Bodies:

S. No	Professional Body	Year of Joining	Type
1.	Neurocomputing	2015	Associate Editor
2.	International Journal of Innovative Computing Information and Control	2015	Associate Editor
3.	The Scientific World Journal	2014	Associate Editor
4.	Journal of Applied Mathematics	2014	Associate Editor
5.	Journal of Applied & Computational Mathematics	2013	Associate Editor
6.	Information Sciences Letters	2014	Associate Editor
7.	Journal of Basic and Applied Science	2013	Associate Editor
8.	Abstract and Applied Analysis	2013 & 2014	Guest Editor

Contributions to the Institution, Department and Society:

- Reviewer for more than 200 reputed international journals including Elsevier, IEEE and Springer publications

Awards and Recognitions:

- Outstanding Reviewer of NONLINEAR ANALYSIS: HYBRID SYSTEMS (May-2015)
- Outstanding Reviewer of COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION (September-2015)

- JSPS Research Fellowship, Japan Society for the Promotion of Science (JSPS), JAPAN, in April 2003-April 2004
- Brain Pool Visiting Fellowship, Korea Research Foundation, SOUTH KOREA, in April 2006-February 2008
- Visiting fellowship, Max-Planck Institute, Magdeburg, GERMANY, September 2002
- Grant from IMU for travel & accommodation to attend International Congress of Mathematics (ICM 2002), Beijing, CHINA, August 2002
- Invited as a participant with financial support for the Summer school on Mathematical control theory by the ICTP, Trieste, ITALY, during SEP 2-28, 2001