

# DR. R. SAMIDURAI

Associate Professor, Department of  
Mathematics, Thiruvalluvar University  
Vellore-632 115

E-Mail: [rsamiduraitvu@gmail.com](mailto:rsamiduraitvu@gmail.com)  
[samidurair@gmail.com](mailto:samidurair@gmail.com)



## EDUCATION

Course	University/Institution	Duration	Subject	% of Marks	Class
Ph.D*	Periyar University, Salem	2005-2010	Mathematics Specialization : Neural Networks	-	--
M.Phil	Periyar University, Salem	2006-2007	Mathematics Specialization : Differential Equations	75	First with Distinction
M.Sc	Bharathiar University Coimbatore	2003-2005	Mathematics	82.44	First with Distinction
B.Sc	Thiruvalluvar Govt arts and Science college, Rasipuram.(Periyar University)	2000-2003	Mathematics	77	First

➤ \*Thesis Title : [Studies on Stability of Nonlinear Impulsive  
Neural Networks.](#)

## PROFESSIONAL EXPERIENCE

### ASSOCIATE PROFESSOR

17 -03-2023 to till now

Thiruvalluvar University, Vellore, Tamilnadu, India.

### ASSISTANT PROFESSOR

17 -03-2011 to 16.03.2023

Thiruvalluvar University, Vellore, Tamilnadu, India.

### SENIOR RESEARCH FELLOW

29 September 2007 – 28 September 2010

UGC-Rajiv Gandhi National Fellowship  
Periyar University, Salem, Tamilnadu, India.

### JUNIOR RESEARCH FELLOW

29 September 2005- 28 September 2007

UGC-Rajiv Gandhi National Fellowship  
Periyar University, Salem, Tamilnadu, India.

### **AWARDS/PRIZES/RANK**

- **UGC-Rajiv Gandhi National Fellowship**
- **DR. D.S. KOTHARI POST DOCTORAL FELLOWSHIP**
- **DST YOUNG SCIENTIST AWARD**, by Department of Science and Technology, New Delhi.

### **MEMBERSHIP IN PROFESSIONAL BODIES:**

- **ACADEMIC COUNCIL MEMBER, THIRUVALLUVAR UNIVERSITY, VELLORE.(2022 TO 2025)**
- **MEMBER, BOARD OF RESEARCH STUDIES, THIRUVALLUVAR UNIVERSITY, VELLORE.(2021 TO 2024)**
- **MEMBER, BOARD OF STUDIES, PERIYAR UNIVERSITY, SALEM.(2016 TO 2019)**
- **MEMBER, BOARD OF STUDIES, THIRUVALLUVAR UNIVERSITY, VELLORE.(2014 TO 2017)**
- **MEMBER, BOARD OF STUDIES, THIRUVALLUVAR UNIVERSITY, VELLORE.(2017 TO 2020)**
- **MEMBER, EDITORIAL BOARD, International Journal of Mathematics and Systems Science.**
- **MEMBER, PANEL OF PHD ADMISSION, VIT, Vellore**
- **ADVISORY AND TECHNICAL PROGRAMME COMMITTEE MEMBER, INTERNATIONAL CONFERENCE ON MODELLING AND COMPUTATIONAL METHODS IN SCIENCE AND ENGINEERING, ORGANIZED BY RAMANUJAN CENTER FOR HIGHER MATHEMATICS, ALAGAPPA UNIVERSITY, KARAUKUDI, 2017.**
- **NSS ADVISORY COMMITTEE, THIRUVALLUVAR UNIVERSITY, VELLORE (2017-2018)**
- **MEMBER, SC & ST CELL THIRUVALLUVAR UNIVERSITY, VELLORE (2016-2020).**

## **COORDINATOR\OFFICER:**

- ✓ SC & ST CELL COORDINATOR- Thiruvalluvar University, Vellore (2019-2021)
- ✓ Vellore District Level SC/ST Vigilance and Monitoring Committee Member. (2020 to 2024)
- ✓ Vellore District Level SC/ST Welfare Committee Member. (2020 to 2024)

## **RESEARCH PROJECTS GRANTED/UNDERTAKEN**

1. Title : **Studies on stability of nonlinear stochastic Systems**  
Duration : 2013-2016  
Funding Agency : DST  
Amount Sanctioned : **Rs 10,80,00/-**
2. Title : **Stability analysis for neutral and impulsive neural Networks with time-varying delays**  
Duration : 2014-2016  
Funding Agency : DST-SERB  
Amount Sanctioned : **Rs 10,20,00/-**
3. Title : **Dynamical behaviours of complex-valued neural Networks with time-varying delays**  
Duration : 2019-2022  
Funding Agency : NBHM  
Amount Sanctioned : **Rs 13,29,100/-**

**ORIENTATION / REFRESHER COURSES ATTENDED:**

Name of the Course/Summer School	Place	Duration	Sponsoring Agency
Orientation Course	Bharathiar University	20-11-2012 to 17-12-2012	UGC
Refresher Course	Bharadhidasan University	05.11.2014 to 25.11.2014	UGC
Refresher Course	Bharathiar University	13-02-2019 to 05-03-2019	UGC
Refresher Course	Madurai Kamaraj University	10.11.2021 to 23.11.2021	UGC

**ADMINISTRATIVE EXPERIENCE:**

S. No	Position Held	Nature of Duty	Place	Duration
1	University Representative	University Valuation Central	Arignar Anna Arts College, Villupuram	December 2014
2	University Representative	University Valuation Central	Thiruvannamalai Govt. Arts college	May 2016
3	University Representative	University Valuation Central	Govt. Arts college Viruthachalam	December 2016
4	Additional Chief Superintendent	University Examination Semester	Arakkonam Arts and Science College	May 2017
5	Additional Chief Superintendent	University Examination Semester	Maruthar Kesari Jain Arts and Science College	May 2018

### **Reviewer in the journals:**

- Neurocomputing
- Applied Mathematics and Computation
- Mathematical Review
- IEEE Transactions on Neural Networks and Learning Systems
- International Journal of Systems Science
- Journal of Franklin Institute
- Journal of machine learning and cybernetics
- Nonlinear dynamics
- Nonlinear Analysis and Hybrid Systems
- Neural Processing Letters
- Neural Computing and Applications

### **RESEARCH SUPERVISION:**

**No. Ph.D / M. Phil scholars Completed/Submitted thesis under my supervision:**

Year	M. Phil	Ph. D
2013	4	-
2014	5	-
2015	5	-
2016	4	--
2017	1	4
2018	4	2
2019	1	--
2020	--	2
2021	--	--
2023	--	2

## List of Candidates Ph. D under my supervision

S. No	Name of the candidate	Year of Joining	Full Time / Part Time
1.	M.Yazhini Ph.d/2023/MAT	2023	Full Time

## Ph.D Degree Awarded / Submitted

Sl. No.	Scholar Name & Reg. No.	Title	Awarded / Submitted
1	R.Manivannan Ph.D./2014/9581	Studies on dynamical behaviours of generalized neural networks with time-varying delay signals	Awarded September,2017
2	S.Rajavel Ph.D./2014/9562	Studies on dynamical behaviours of delay neural networks	Awarded December,2017
3	G. Magendrakumar Ph.D./2014/9581	Studies on stability analysis of neural networks with time-varying delays	Awarded December,2017
4	R.Senthilraj	Studies on stability analysis of dynamical systems	Awarded December,2017
5	R.Sriraman Ph.D./085/2017/MAT	Studies on stability stabilization and dissipativity analysis of delayed dynamical systems	Awarded January,2020
6	N.Shyamsundarraaj Ph.D./075/2016	Studies on dynamical behaviours of neural networks with time-varying delays	Awarded October,2020
7	S.RAMAJEYAM Ph.d/2018/192/MAT	Studies on stabilization and synchronization analysis of complex-valued dynamical systems	Awarded October,2022

## List of Candidates completed M.Phil under my supervision

Sl. No.	Scholar Name & Reg. No.	Title	Awarded / Submitted
1.	A.Pachaiyappan 2013597	Global exponential stability of neural networks with discrete and distributed delays on time scales	Awarded Aug 2013
2.	M.Ponnusamy 2013599	Exponential stability analysis for neutral switched systems with time-varying delay	Awarded Aug 2013
3.	J.Shakila 2013604	Exponential stability of neural networks with time varying delays	Awarded Aug 2013
4.	S.Rajavel 2013602	Stability analysis of BAM neural networks with time delays	Awarded Aug 2013
5.	M.Amudha 30014M10001	Asymptotic stability criteria for neural networks with time varying delays.	Awarded Aug 2014
6.	G.Logeswari 30014M10007	Exponential stability results for delayed neural networks and distributed delayed neural networks with impulses	Awarded Aug 2014
7.	R.Mownami 30014M10009	Exponential stability analysis for delayed recurrent neural networks with interval delays and impulses	Awarded Aug 2014
8.	R.Sandhiya 30014M10013	Delay-dependent stability results for linear systems with time varying delay	Awarded Aug 2014
9.	N.Shyamsundarraaj 30014M10014	Stability analysis of solution of delay differential equations	Awarded Aug 2014
10.	M.Geetha 30015M10003	LMI conditions for stability of impulsive stochastic cohen-grossberg neural networks with mixed delays	Awarded Aug 2015
11.	T.Nalini 30015M10008	Exponential stability result for stochastic markovian jumbling BAM neural networks with leakage discrete and distributed time –varying delays	Awarded Aug 2015
12.	C.Sangeetha 30015M10016	Stability analysis for mixed recurrent and stochastic neural networks with time-delay in the leakage term and impulsive perturbations.	Awarded Aug 2015
13.	B.Sasikumar 30015M100017	Exponential stability result for impulsive neural network and uncertain stochastic neural network	Awarded Aug 2015
14.	K.Varatharaj 30015M10022	Passivity analysis of stochastic impulsive neural networks with distributed delay and leakage delay	Awarded Aug 2015
15.	A.Dilipkumar 30015FM10003	Delay –dependent stability criteria for neural networks with additive time –varying delay components	Awarded Oct 2017
16.	R.Sriraman 30015FM10017	Novel results on stability analysis of neural-type neural networks with additive time-varying delay components and leakage delay	Awarded Aug 2017
17.	K.Thamilarasi 30015FM10019	A study on neural –type neural networks with discrete and distributed time-varying delay	Awarded Aug 2017
18.	V.Tamilarasi 30015FM10020	Delay –dependent asymptotic stability criteria for BAM neural networks with time –varying delays	Awarded Aug 2017
19.	S.Dhatchayani 30016FM10001	A study on reliable extended dissipativity control design for generalized neural networks with time –varying delay signals	Awarded Aug 2017
20.	S.Bharathi 30017FM10001	Stability and dissipativity analysis for stochastic neural networks with time- varying delays	Awarded Oct 2018
21.	S.Kavipriya 30017FM10008	Stability and dissipativity analysis for generalized neural networks with leakage and mode- dependent probabilistic time-varying delays	Awarded Oct 2018
22.	V.Pavithra 30017FM10012	Exponential stability and passivity of generalized neural networks with two additive time-varying delay components	Awarded Oct 2018
23.	S.Ramajayam	Studies on stability and stabilization analysis of generalized	Awarded

	30017FM10015	neural networks with time-varying delays	Aug 2018
24	V.Sandhiya 30018FM10007	Studies on stability of complex valued neutral type Hopfiled neural networks	Awarded Aug 2019



**MEMBERSHIP IN NATIONAL/INTERNATIONAL CONFERENCES/  
WORKSHOPS/EVENTS**

- 1 MEMBER- ORGANIZING COMMITTEE, NATIONAL SEMINAR ON MATLAB AND ITS APPLICATIONS, THIRUVALLUVAR UNIVERSITY, VELLORE.

**INVITED TALKS/LECTURES DELIVERED:**

No	Title of the Invited Lecture/Paper presented	Title of Conference/ Seminar etc.	Organised by	Date of Presentation
1	Invited Lecture	<b>Recent Trends in Pure and Applied Mathematics</b>	<b>Adhiparasakthi college of Arts and Science, Vellore, Tamil Nadu</b>	13-02-2019
	Invited Lecture	<b>Mathematical analysis and Applied Science</b>	<b>K.M.G.College of Arts and Science, Gudiyattam, Vellore, Tamil Nadu.</b>	26-08-2016
	Paper presentation	National Conference on Differential Equations and Applications	Periyar University, Salem <b>Tamil Nadu.</b>	September 28-29, 2006
	Paper presentation	National Conference on Applications of Partial Differential Equations	Bharathiar University, Coimbatore, <b>Tamil Nadu.</b>	January 24-25,2007
	Paper presentation	The 95th Indian Science Congress	Andhra University	January 3-7, 2008.

## PRESENATATIONS/PARTICIPATIONS IN CONFERENCES/ SEMINAR

- Participated and presented the research paper entitled “**Global Existence, Uniqueness and Continuous Dependence for a Semilinear Integrodifferential Equation**” in the National Conference on Differential Equations and Applications held at Periyar University, Salem during September 28-29, 2006.
- Participated and presented the research paper entitled “**Existence and Uniqueness results for a Nonlinear Wave Equation**” in the National Conference on Applications of Partial Differential Equations held at Bharathiar University, Coimbatore during January 24-25, 2007.
- Participated and presented the research paper entitled “**Existence and uniqueness results for neutral stochastic delay differential equations**”, The 95th Indian Science Congress held at Andhra University, Visakhapatnam, during January 3-7, 2008.
- Participated and presented the research paper entitled “**Global exponential stability of impulsive cellular neural networks with time-varying delays**”, One Day Seminar on Partial Differential Equations in Commemoration of Prof. E. K. Ramasami’s Retirement held at Bharathiar University, Coimbatore, during November 6, 2009.
- **Global exponential stability of stochastic neutral-type neural networks with delays**, Proceedings of Recent Advances in Mathematical Science and Applications, Viskhapatnam, 2010.
- Participated in **National Seminar on Mathematical Analysis and Applications** held at Periyar University, Salem during October 6-7, 2005.
- Participated in the **Workshop on Algebra** organized by the department of Mathematics, Periyar University, Salem during February 17-18, 2006.
- Participated in the National Seminar on **Recent Advances in Mathematics** at Periyar University, Salem during March 12-13, 2007.
- Participated in the **Fourth Annual Foundation School in Mathematics –I** held at Indian Institute of Technology, Kanpur during December 03-28, 2007.
- Participated in the National Seminar on **Fifth Annual Instructional Conference of ADMA and Graph Theory Day V** at Periyar University, Salem during June 8-10, 2009.
- Participated in the National Conference on **Advances in Differential Equations and Applications** at Periyar University, Salem during October 7-8, 2010.

## List of publications in SCI Journals

S. No	Name of Authors, Title of the paper, Journals Name, Vol. (no.), pages	Year	No.of Citations	Impact Factor
1.	S Ramajayam, S Rajavel, <b>R Samidurai</b> , Yang Cao , <a href="#">Finite-Time Synchronization for T–S Fuzzy Complex-Valued Inertial Delayed Neural Networks Via Decomposition Approach</a> ,Neural Processing Letters, 1-19	2023		2.565
2.	R Sriraman, <b>R Samidurai</b> , VC Amritha, G Rachakit, Prasanalakshmi Balaji <a href="#">System decomposition-based stability criteria for Takagi-Sugeno fuzzy uncertain stochastic delayed neural networks in quaternion field</a> , AIMS Mathematics, 5, 11589-11616	2023		2.739
3.	Grienggrai Rajchakit, Ramalingam Sriraman, Rajendran Samidurai, <a href="#">Dissipativity analysis of delayed stochastic generalized neural networks with Markovian jump parameters</a> , International Journal of Nonlinear Sciences and Numerical Simulation, 23, 23(5), 661-684	2022		2.156
4.	V Vijayakumar, KS Nisar, A Shukla, B Hazarika, R Samidurai, <a href="#">An investigation on the approximate controllability of impulsive neutral delay differential inclusions of second order</a> , Mathematical Methods in the Applied Sciences, pp.1-9, 2022	2022		3.007
5.	Y Cao, S Ramajayam, R Sriraman, R Samidurai Leakage delay on stabilization of finite-time complex-valued BAM neural network: Decomposition approach, Neurocomputing 463, 505-513.	2021		5.779
6.	Usa Humphries, Grienggrai Rajchakit, Ramalingam Sriraman, Pramet Kaewmesri, Pharunyou Chanthorn, Chee Peng Lim, Rajendran Samidurai An Extended Analysis on Robust Dissipativity of Uncertain Stochastic Generalized Neural Networks with Markovian Jumping Parameters, <i>Symmetry</i> 2020, 12(6), 1035;	2020		2.645
7.	Usa Humphries, Grienggrai Rajchakit, Pramet Kaewmesri, Pharunyou Chanthorn, Ramalingam Sriraman, Rajendran Samidurai, Chee Peng Lim, Stochastic Memristive Quaternion-Valued Neural Networks with Time Delays: An Analysis on Mean Square Exponential Input-to-State Stability, <i>Mathematics</i> , 8(5), 815; <a href="https://doi.org/10.3390/math8050815">https://doi.org/10.3390/math8050815</a>	2020		2.592

8.	Usa Humphries, Grienggrai Rajchakit, Pramet Kaewmesri, Pharunyou Chanthorn, Ramalingam Sriraman, Rajendran Samidurai, Chee Peng Lim Global Stability Analysis of Fractional-Order Quaternion-Valued Bidirectional Associative Memory Neural Networks, <i>Mathematics</i> , 8(5), 801;	2020		2.592
9.	Yang Cao, Ramalingam Sriraman, N Shyamsundarraaj, Rajendran Samidurai <a href="#">Robust stability of uncertain stochastic complex-valued neural networks with additive time-varying delays.</a> Mathematics and Computers in Simulation ,171, 207-220	2020		1.620
10.	R Sriraman, Y Cao, R Samidurai Global asymptotic stability of stochastic complex-valued neural networks with probabilistic time-varying delays <i>Mathematics and Computers in Simulation</i> 171, 103-118,	2020		3.601
11.	Y Cao, R Sriraman, R Samidurai, Stability and stabilization analysis of nonlinear time-delay systems with randomly occurring controller gain fluctuation, <i>Mathematics and Computers in Simulation</i> 171, 36-51,	2020		3.601
12.	Ramalingam Sriraman, Grienggrai Rajchakit, Chee Peng Lim, Pharunyou Chanthorn, Rajendran Samidurai Discrete –time stochastic Quaternion–valued neural network with time delays: An asymptotic stability analysis ,” <i>Symmetry</i> volume: 12 pages: 1035.	2020	0	2.645
13.	N Shyamsundarraaj, G Mahendrakumar, R Samidurai <a href="#">Dissipativity and Passivity analysis of neural networks with mixed-time-varying delays</a> , <i>Journal of Computational Mathematica</i> 3 (2), 85-99	2019		1.129
14.	N Shyamsundarraaj, R Sriraman, R Samidurai <a href="#">Improved stability analysis for Markovian Jump Static Neural Networks with Mode-Dependent Time-Varying Delays</a> <i>Journal of Computational Mathematica</i> 3 (2), 100-113,	2019		1.129
15.	R Sriraman, R Samidurai <a href="#">Global asymptotic stability analysis for neutral-type complex-valued neural networks with random time-varying delays</a> , <i>International Journal of Systems Science</i> 50 (9), 1742-1756	2019	1	1.620
16.	<b>R. Samidurai, R.Sriraman, S. Zhu,</b> Stability and dissipativity analysis for uncertain Markovian jump systems with random delays via new approach, <i>International Journal of Systems Science.</i> 50(9), 1609-1625,2019	2019	3	2.144

17.	Samidurai, R. <b>Sriraman, R.</b> Non-fragile sampled-data stabilization analysis for linear systems with probabilistic time-varying delays , Journal of the Franklin Institute.356(8), pp. 4335-4357.	2019	0	4.036
18.	<b>Samidurai, R.</b> Sriraman, R. Zhu,S Leakage delay-dependent stability analysis for complex-valued neural networks with discrete and distributed time varying delays,Neurocomputing,338, pp. 262-273.	2019		5.779
19.	Cao, Y. <b>Samidurai, R.</b> Sriraman,R Robust passivity analysis for uncertain neural networks with leakage delay and additive time-varying delays by using general activation function,Mathematics and Computers in Simulation,155, pp. 57-77.	2019	13	1.620
20.	<b>Samidurai, R.</b> Rajavel, S. Cao, J.Alsaedi, A. Ahmad, B. New delay-dependent stability criteria for impulsive neural networks with additive time-varying delay components and leakage term, Neural Processing Letters,49(2), pp. 761-785.	2019	2	2.591
21.	Cao, Y. <b>Samidurai, R.</b> Sriraman,R , Stability and dissipativity analysis for neutral type stochastic Markovian jump static neural networks with time delays,Journal of Artificial Intelligence and Soft Computing Research,9(3), pp. 189-204.	2019	0	0.628
22.	Manivannan, R. <b>Samidurai, R.</b> Cao, J. Alsaedi, A. Alsaadi, F.E. Non-Fragile extended dissipativity control design for generalized neural networks with interval time-delay signals, Asian Journal of Control,21(1), pp. 559-580.	2019	4	2.779
23.	<b>Samidurai, R.</b> Sriraman, R. Robust dissipativity analysis for uncertain neural networks with additive time-varying delays and general activation functions, Mathematics and Computers in Simulation ,155, pp. 201-216.	2019	3	1.620
24.	<b>Y Cao, R Samidurai, R Sriraman</b> <b>Robust passivity analysis for uncertain neural networks with leakage delay and additive time-varying delays by using general activation function</b> Mathematics and Computers in Simulation 155, 57-77 ,	2019		1.620

25.	Manivannan, R. <b>Samidurai, R.</b> Cao, J. Alsaedi, A. Alsaadi, F.E. Delay-dependent stability criteria for neutral type neural networks with interval time varying delay signals under the effects of leakage delay, <i>Advances in Difference Equations</i> 2018 (1), 1-25	2018	3	1.510
26.	<b>Samidurai, R.</b> Sriraman, R. Non-fragile stabilization for uncertain system with interval time-varying delays via a new double integral inequality, <i>Mathematical Methods in the Applied Sciences</i> ,41(16), pp. 6272-6287.	2018	1	1.626
27.	<b>Samidurai, R.</b> Sriraman, R. Cao, J. Tu, Z. Effects of leakage delay on global asymptotic stability of complex-valued neural networks with interval time-varying delays via new complex-valued Jensen's inequality, <i>International Journal of Adaptive Control and Signal Processing</i> ,32(9), pp. 1294-1312.	2018	3	2.116
28.	Manivannan, R. <b>Samidurai, R.</b> Cao, J. Alsaedi, A. Alsaadi, F.E. Stability analysis of interval time-varying delayed neural networks including neutral time-delay and leakage delay, <i>Chaos, Solitons and Fractals</i> ,114, pp. 433-445.	2018	5	3.764
29.	Manivannan, R. <b>Samidurai, R.</b> Cao, J. Perc, M. Design of resilient reliable dissipativity control for systems with actuator faults and probabilistic time-delay signals via sampled-data approach, <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> .	2018	2	8.800
30.	Rajavel, S. <b>Samidurai, R.</b> Kilbert, S.A.J. Cao, J. Alsaedi, A. Non-fragile mixed $H_{\infty}$ and passivity control for neural networks with successive time-varying delay components, <i>Nonlinear Analysis: Modelling and Control</i> ,23(2), pp. 159-181.	2018	1	2.780
31.	Manivannan, R. <b>Samidurai, R.</b> Sriraman, R. An improved delay-partitioning approach to stability criteria for generalized neural networks with interval time-varying delays, <i>Neural Computing and Applications</i> ,28(11), pp. 3353-3369.	2017	10	4.774
32.	Zhu, Q. Senthilraj, S. Raja, R. <b>Samidurai, R.</b> Stability analysis of uncertain neutral systems with discrete and distributed delays via the delay partition approach, <i>International Journal of Automation and Systems</i> ,15(5), pp. 2149-2160.	2017	2	2.733

33.	Manivannan, R. <b>Samidurai, R.</b> Zhu, Q. Further improved results on stability and dissipativity analysis of static impulsive neural networks with interval time-varying delays, Journal of the Franklin Institute,354(14), pp. 6312-6340.	2017	21	4.036
34.	<b>Samidurai, R.</b> Rajavel, S.Sriraman, R. Alsaedi, A.Alsaadi, F.E. Novel results on stability analysis of neutral-type neural networks with additive time varying delay components and leakage delay, International Journal of Control, Automation and Systems,15(4), pp. 1888-1900	2017	18	2.733
35.	Manivannan, R. Mahendrakumar,G. <b>Samidurai, R.</b> Cao, J. Alsaedi,A. Exponential stability and extended dissipativity criteria for generalized neural networks with interval time-varying delay signals,Journal of the Franklin Institute ,354(11), pp. 4353-4376 .	2017	17	4.036
36.	<b>Samidurai, R.</b> Rajavel, S. Cao, J. Alsaadi, F. Ahmad, B. Delay-partitioning approach to stability analysis of state estimation for neutral-type neural networks with both time-varying delays and leakage term via sampled-data control, International Journal of Systems Science,48(8), pp. 1752-1765.	2017	7	2.144
37.	<b>Samidurai, R.</b> Senthilraj, S. Zhu, Q. Raja, R. Hu, W. Effects of leakage delays and impulsive control in dissipativity analysis of Takagi-Sugeno fuzzy neural networks with randomly occurring uncertainties,Journal of the Franklin Institute, V.o no: 345 & pp: 3574-3593.	2017	10	4.036
38.	R. Raja, Quanxin Zhu, <b>R. Samidurai,</b> S. Senthilraj· Wei Hu. Improved Results on Delay-Dependent $H_\infty$ Control for Uncertain Systems with Time-Varying Delays, Circuits Syst Signal Process 36 ,pp.1836–1859	2017	5	1.681
39.	Rajavel, S. <b>Samidurai, R.</b> Cao, J.Alsaedi, A. Ahmad, B. Finite-time non-fragile passivity control for neural networks with time-varying delay, Applied Mathematics and Computation,297, pp. 145-158. 2017	2017	43	3.472
40.	Manivannan, R. <b>Samidurai, R.</b> Cao, J. Alsaedi, A. Alsaadi, F.E. Global exponential stability and dissipativity of generalized neural networks with time-varying delay signals .Neural Networks,87, pp. 149-159, 2017	2017	34	5.535

41.	N Shyamsundarraaj, R Samidurai, S Rajavel <a href="#">Delay-dependent stability analysis for neural networks with additive time-varying delay components</a> , International Journal of Pure and Applied Mathematics, Volume 113 No. 10 2017, 65 – 73	2017		0.14
42.	G Mahendrakumar, R Manivannan, R Samidurai <a href="#">Exponential <math>H_{\infty}</math> filtering design for discrete-time neural networks switched systems with time-varying delay</a> International Journal of Advance Research, Ideas and Innovations in Technology,	2017		4.927
43.	Manivannan, R. <b>Samidurai, R.</b> Cao, J. Alsaedi, A. New delay-interval-dependent stability criteria for switched Hopfield neural networks of neutral type with successive time-varying delay components ,Cognitive Neurodynamics,10(6), pp. 543-562.	2016	11	3.925
44.	Senthilraj, S. Raja, R. Zhu, Q. <b>Samidurai, R.</b> Zhou, H. Delay-dependent asymptotic stability criteria for genetic regulatory networks with impulsive perturbations,Neurocomputing,214, pp. 981-990.	2016	9	4.438
45.	Senthilraj, S. Raja, R. Zhu, Q. <b>Samidurai, R.</b> Yao, Z. Delay-interval-dependent passivity analysis of stochastic neural networks with Markovian jumping parameters and time delay in the leakage term, Nonlinear Analysis: Hybrid Systems ,22, pp. 262-275.	2016	15	5.881
46.	<b>Samidurai, R.</b> Manivannan, R. Ahn, C.K. Karimi, H.R. New criteria for stability of generalized neural networks including Markov jump parameters and additive time delays,IEEE Transactions on Systems, Man, and Cybernetics: Systems,48(4), pp. 485-499.	2016	37	8.800
47.	Senthilraj, S. Raja, R. Zhu, Q. <b>Samidurai, R.</b> Yao, Z. New delay-interval-dependent stability criteria for static neural networks with time-varying delays, Neurocomputing, 186, pp. 1-7.	2016	6	4.438
48.	<b>Samidurai, R.</b> Manivannan, R. Delay-range-dependent passivity analysis for uncertain stochastic neural networks with discrete and distributed time-varying delays,Neurocomputing,185, pp. 191-201.	2016	6	4.438



49.	<b>Samidurai, R.</b> Rajavel, S. Zhu, Q. Raja, R. Zhou, H. Robust passivity analysis for neutral-type neural networks with mixed and leakage delays ,Neurocomputing,175(PartA), pp. 635-643.	2016	22	4.438
50.	Senthilraj, S. Raja, R. Zhu, Q. <b>Samidurai, R.</b> Yao, Z. Exponential passivity analysis of stochastic neural networks with leakage, distributed delays and Markovian jumping parameters, Neurocomputing, 175(PartA), pp. 401-410.	2016	25	4.438
51.	S Senthilraj, R Raja, R Samidurai <a href="#">A note on delay dependent stability analysis of uncertain neutral Systems with nonlinear perturbations</a> , Asian Journal of Mathematics and Computer Research	2016		8.187
52.	Senthilraj, S. Raja, R. Jiang, F.Zhu, Q. <b>Samidurai, R.</b> New delay-interval-dependent stability analysis of neutral type BAM neural networks with successive time delay components, Neurocomputing,171, pp. 1265-1280.	2016	11	4.438
53.	<b>Samidurai, R.</b> Manivannan, R Robust passivity analysis for stochastic impulsive neural networks with leakage and additive time-varying delay components, Applied Mathematics and Computation,268,21387, pp. 743-762.	2015	15	3.472
54.	Raja, R. Zhu, Q. Senthilraj, S. <b>Samidurai, R.</b> Improved stability analysis of uncertain neutral type neural networks with leakage delays and impulsive effects, Applied Mathematics and Computation,266,21301, pp. 1050-1069.	2015	40	3.472
55.	Ramachandran Raja, U Karthik Raja, Rajendran Samidurai, A Leelamani <a href="#">Improved stochastic dissipativity of uncertain discrete-time neural networks with multiple delays and impulses</a> , International Journal of Machine Learning and Cybernetics ,6, 289-305	2015		4.377
56.	R Raja, S Senthilraj, R Samidurai, $H_{\infty}$ control for fuzzy neutral systems with mixed delays using delay partition approach, Asian Journal of Mathematics and Computer Research	2015		8.187

57.	R. Raja ,U. Karthik Raja , <b>R. Samidurai</b> ,A. Leelamani . Improved stochastic dissipativity of uncertain discrete-time neural networks with multiple delays and impulses, International journal of machine learning and cybernatics ,volume no: 6, pp: 289-305	2015	9	3.753
58.	Raja, R. Raja, U.K. <b>Samidurai, R.</b> Leelamani, A.Passivity analysis for uncertain discrete-time stochastic BAM neural networks with time-varying delays,Neural Computing and Applications,25(3-4), pp. 751-766.	2014	26	4.774
59.	Raja, R. Raja, U.K. <b>Samidurai, R.</b> Leelamani, A. Dynamic analysis of discrete time BAM neural networks with stochastic perturbations and impulses,International Journal of Machine Learning and Cybernetics,5(1), pp. 39-50.	2013	14	3.753
60.	Raja, R. Karthik Raja, U. <b>Samidurai, R.</b> Leelamani, A. Dissipativity of discrete-time BAM stochastic neural networks with Markovian switching and impulses,Journal of the Franklin Institute,350(10), pp. 3217-3247.	2014	30	4.036
61.	Karthik Raja, U. Raja, R. <b>Samidurai, R.</b> Leelamani, A. Exponential stability for stochastic delayed recurrent neural networks with mixed time-varying delays and impulses: the continuous-time case, Physica cripta,87(5),055802.	2013	4	1.985
62.	Raja, R. <b>Samidurai, R.</b> New delay dependent robust asymptotic stability for uncertain stochastic recurrent neural networks with multiple time varying delays,Journal of the Franklin Institute,349(6), pp. 2108-2123.	2012	31	3.653
63.	<b>Samidurai, R.</b> Marshal Anthoni.S, Balachandran. K Asymptotic stability of stochastic delayed recurrent neural networks with impulsive effects; Journal of Optimization Theory and Applications Vo.no:147& pp:583-596	2010.		2.189
64.	R Samidurai <a href="#">Studies on Stability of Nonlinear Impulsive Neural Networks</a>	2010		

65.	Sakthivel. R, <b>Samidurai. R</b> , Anthoni .S.M. New exponential stability criteria for stochastic BAM neural networks with impulses; Physica Scripta Vo.no:82 & pp:045802/ 2010.	2010.		3.081
66.	Sakthivel, R. <b>Samidurai, R</b> Anthoni .S.M. Exponential stability for stochastic neural networks of neutral type with impulsive effects; Modern Physics Letters B Vo.no:2 & pp:1099-1110/ 2010.	2010		1.594
67.	<b>Samidurai. R</b> , Marshal Anthoni.S, Balachandran. K. Global exponential stability of neutral-type impulsive neural networks with discrete and distributed delays; Nonlinear Analysis: Hybrid Systems, Vo.no:04 & pp:103-112 .	2010		5.477
68.	<b>Samidurai. R</b> , Marshal Anthoni.S, Balachandran. K. Global asymptotic stability of BAM neural networks with mixed delays and impulses; Applied Mathematics and Computation Vo.no:212 & pp:113-119 / 2009.	2009		4.397

## LIST OF PUBLICATIONS IN CONFERENCE PROCEEDINGS

Differential Equations and Applications: Recent Advances <b>(Proceeding)</b>	Periyar University, Salem.	National	Exponential stability for fuzzy neural networks with impulses: A delay fractioning approach	2014
--	----------------------------	----------	---	------