DR. M. SYED ALI

Associate Professor,
Department of Mathematics,
Thiruvalluvar University
Vellore.

E-Mail: syedgru@gmail.com

PERSONAL DETAILS

Father's Name   : N. E. Muhammad Ali

Date of Birth   : 16 April 1982

Permanent Address   : 5/23, Pandiyan Street,

Nallagoundan Palayam,

Gobichettipalayam,

Erode (Dt), Tamilnadu, India, Pin 638452.

EDUCATION

Course	University/Institution	Duration	Subject	% of Marks	Class
Ph.D	Gandhigram Rural University, Dindigul	2007-2010	Mathematics Specialization : Fuzzy Neural Networks	Highly Commended	Awarded DEC-2010
M.Phil	Gandhigram Rural University, Dindigul	2006-2007	Mathematics Specialization : Numerical Analysis	84.50	First
PGDCA	Bharathiar University Evening College	2004-2005	Computer Science and Applications	72	First
M.Sc	Bharathiar University Sri Ramakrishna Mission Vidyalaya College	2003-2005	Mathematics	89.5	First with Distinction
B.Sc	Bharathiar University Gobi Atrs College	1999-2002	Mathematics	78.12	First

PhD Thesis Title   : Stability Analysis of Fuzzy neural networks with

time varying delays.

PROFESSIONAL EXPERIENCE

ASSOCIATE PROFESSOR   02-03-2023 to till now
Thiruvalluvar University, Vellore, Tamilnadu, India.

ASSISTANT PROFESSOR   02 -03-2011 to 01-03-2023
Thiruvalluvar University, Vellore, Tamilnadu, India.

POST-DOCTORAL FELLOW   22-11- 2010 to 01 -03-2011
UGC – DSK Post – Doctoral Fellowship

Bharathidasan University, Trichy,Tamilnadu, India.

SENIOR RESEARCH FELLOW   22 January 2008 – 31 March 2010

NBHM Project

Gandhigram Rural University, Dindigul,Tamilnadu, India.

RESEARCH FELLOW   7 March 2007- 21 January 2008

Gandhigram Rural University, Dindigul.

AWARDS/PRIZES/RANK

YOUNG SCIENTIST AWARD(2017) by The Academy of Sciences Chennai., Tamil Nadu

DST YOUNG SCIENTIST AWARD, by Department of Science and Technology, New Delhi.

DR. D.S. KOTHARI POST DOCTORAL FELLOWSHIP (PDF) (2010) by University Grants

Commission, Govt. of India.

SENIOR RESEARCH FELLOWSHIP (SRF)(2009) by National Board for Higher Mathematics
(NBHM),India.

GRU RESEARCH FELLOWSHIP (2009) by Gandhigram Rural Univesity, Tamil Nadu,   India.

FIRST RANK HOLDER (2004) in M.Sc, Sri Ramakrishna Vidyalaya(SRKV) CAS, Tamil Nadu, India.

MATHEMATICIAN RAMANUJAM AWARD(2005) and Endowment Prize by SRKV CAS,

Tamil Nadu, India.

JAIGOBAL KARODIA FELLOWSHIP (2003) by Jaigobal karodia Trust, Chennai

MEMBERSHIP IN PROFESSONIAL BODIES:

MEMBER , INERNATIONAL NEURAL NETWORK SOCIETY (INNS)- USA .

(01-07-10 to 01- 12-11)

MEMBER , ACADEMIC COUNCIL - THIRUVALLUVAR UNIVERSITY, VELLORE. (2013- 2016)

MEMBER , DOCTORAL COMMITTEE, VIT UNIVERSITY, VELLORE. (2014- 2017)

MEMBER, BOARD OF STUDIES, THIRUVALLUVAR UNIVERSITY, VELLORE.

MEMBER, BOARD OF STUDIES, C. ABDUL HAKEEM COLLEGE, MELVISHARAM. (2014- 2017)

MEMBER, BOARD OF STUDIES, ISLAMIAH COLLEGE, VANIYAMBADI. (2014- 2017)

MEMBER, EDITORIAL BOARD, JOURNAL OF APPLIED MATHEMATICS AND MECHANICS, NOIDA, INDIA.

MEMBER, EDITORIAL BOARD, JOURNAL OF RESEARCH IN APPLIED MATHEMATICS, USA

MEMBER, EDITORIAL BOARD, JOURNAL OF COMPUTER SIMULATION IN APPLICATIONS, Whioce Publishing Pte. Ltd. from Singapore.

MEMBER, EDITORIAL BOARD, JOURNAL OF COMPUTERS, USA.

MEMBER, EDITORIAL BOARD, THE SPLENDID JOURNALS, INDIA.

MEMBER, FRANKLIN MEMBER, LONDON JOURNAL PRESS, UK.

MEMBER , PANEL OF PHD ADMISSION, SATHYABAMA UNIVERSITY, CHENNAI. (2018- 2019)

RESEARCH ADVISOR, BANNARI AMMAN INSTITUTE OF TECHNOLOGY, TAMILNADU.

COORDINATOR\OFFICER\MEMBER IN ACADEMIC CELLS:

NODAL OFFICER, NSDL – NAD CELL, Thiruvalluvar University, Vellore.

DEPUTY COORDINATOR, NAAC Committee, Thiruvalluvar University, Vellore.

MEMBER, ENTERPERNEURSHIP DEVELOPMENT CELL, Thiruvalluvar University, Vellore.

MEMBER, INTELECTUAL PROPERTY RIGHTS CELL, Thiruvalluvar University, Vellore.

RESEARCH PROJECTS GRANTED/UNDERTAKEN

S.NO	AGENCY	TITLE	GRANT	DURATION
1	CSIR, New Delhi	Studies on filtering and control of dynamical systems. 25(0274)/17/EMR-II	Rs. 28, 80,000/-	2017 - 2020
2.	NBHM- DAE, Mumbai	Studies on control of complex dynamical systems, 2/48(5)/2016/NBHMR.P)/- R &D II/ 14088	Rs. 14, 40,000/-	2016 - 2019
3.	NBHM- DAE, Mumbai	Stability analysis and stabilization of neural systems with time varying delays and Markovian jumping parameters 2/48(10)/2011- r &d ii/865	Rs. 10, 68,500/-	2012-2015
4	DST, NewDelhi	Studies on asymptotic behavior of dynamical systems with stochastic perturbation" project no.sr/ftp/ ms-039/2011	Rs. 10, 80,400/-	2013-2016
5	SERB	Studies on Stability of Multi Agent system MTR/ 2018/000931	Rs. 6, 60,000/-	2020-2022

ORIENTATION / REFRESHER COURSES ATTENDED:

COMPLETED ORIENTATION COURSE held from 01-02-12 to 28-02-12 at UGC- Academic staff college, Bharathidasan University, Trichy.

COMPLETED REFERESHER COURSE held from 01-02-15 to 28-02-15 at UGC- Academic staff college, Madurai Kamaraj University, Madurai.

COMPLETED REFERESHER COURSE held from 05-07-17 to 25-07-17 at UGC- Academic staff college, Bharathiar University, Coimbatore.

INTERNATIONAL/NATIONAL CONFERENCES/ WORKSHOPS/EVENTS ORGANIZED

1. ORGANIZING SECRETARY, STATE LEVEL WORKSHOP ON " APPLIED MATHEMATICS AND COMPUTATION" 27 -28 FEB 2017.

2. ORGANIZING SECRETARY, MATH CAMPUS PLACEMENT-2018" 24 SEP 2018.

MEMBERSHIP IN NATIONAL/INTERNATIONAL CONFERENCES/ WORKSHOPS/EVENTS

1. DEPUTY - COORDINATOR, NSS MEGA CAMP, THIRUVALLUVAR UNIVERSITY, VELLORE, 22-03-16 TO 28-03-2016.
2. MEMBER- ORGANIZING COMMITTEE, NATIONAL SEMINAR ON MATLAB AND ITS APPLICATIONS, THIRUVALLUVAR UNIVERSITY, VELLORE.
3. MEMBER, - ORGANIZING COMMITTEE, SCIENCE ACADEMIES WORKSHOP ON FLUID DYNAMICS, THIRUVALLUVAR UNIVERSITY, VELLORE.

ADMINISTRATIVE EXPERIENCE:

S. No	Position Held	Nature of Duty	Place	Duration
1	University Representative	University Central Valuation	Thiruvannamalai Govt. Arts college	December 2015
2	University Representative	University Central Valuation	Thiruvannamalai Govt. Arts college	May 2016
3	University Representative	University Central Valuation	Govt. Arts college Viruthachalam	December 2016
4	Additional Chief Superintentent	University Semester Examination	Arakkonam Arts and Science College	May 2017
5	Additional Chief Superintentent	University Semester Examination	Maruthar Kesari Jain Arts and Science College	May 2018

RESEARCH WORKS AND CONSULTANT:

RESEARCH AREAS INTRESTED:

Stability Analysis of Dynamical Systems,

Stability Analysis of Takagi –Sugeno Fuzzy Systems,

Stability Analysis of Dynamic neural networks,

Stability Analysis of Fuzzy neural networks

Asymptotic behavior of Stochastic Differential Equations.

Studies on Number Theory and Cryptography

Control of Complex Networks,

Stability Analysis of Genetic Regularity Networks

Asymptotic behaviors of factional Differential Equations.

RESEARCH SUPERVISION:

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

Year	M. Phil	Ph. D
2013	4	-
2014	4	-
2015	4	-
2016	4	1
2017	1	4
2018	4	2
2019	4	1
2020	-	-
2021	-	-
2022	-	2
2023	-	3

List of Candidates *completed* Ph. D under my supervision

1. **R. Saravanakumar (2013- 2016) (NBHM- JRF)**

   Title: Robust H_infinity control of Delay Differential Equations.

2. **N. Gunasekaran (2014- 2017) (DST- JRF)**

   Title: Sampled Data stabilization of Neural Networks

3. **M. Esther Rani, (2015-2017)**

   Title: Stability and Stabilization of Neural Networks with Time varying delays.

4. **K. Meenakshi (2014-2017) (UGC- SRF)**

   Title: Studies on Stability of Discrete -Time Neural Networks.

5. **J. YOGAMBIGAI (2014- 2017)**

   Title: Studies on Control of Complex Dynamical Networks.

6. **S. SARAVANAN (2015- 2018)**

   Title: Finite time control of delayed neural networks.

7. **R. Vadivel (2016- 2018)**

   Title: Control of delayed neural networks.

8. **M. Usha (2017- 2019)**

   Title: Stability of stochastic complex dynamical networks.

9. **R. Agalya (2018- 2021)**

   Title: Control of delayed neural networks.

10. **L. Palanisamy (2018- 2021)**

    Title: Studies on stability of reaction diffusion systems.

11. **G. Narayanan (2019- 2022)**

    Title: Studies on stability of fractional order systems.

12. M. Hymavathy (2021- 2023)

Title: Stability and synchronization analysis of fractional-order neural networks

13. M. Mubeen Tajudeen (2021- 2023)

Title: A study on event-triggered control of complex dynamical networks under cyber-attacks.

List of Candidates *doing* Ph. D under my supervision

S. No	Name of the candidate	Year of Joining	Full Time / Part Time
1.	M. Kumar	2021	Part Time
2.	B. Vigneshwar	2022	Full Time

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

S. No	Name	Title of the Project	Year
1	M. Girija	Delay – dependent robust stability conditions for uncertain nonlinear delay differential systems with interval time varying delays	2013
2	N. S. Priya	Robust stability analysis of uncertain complex time delay systems	2013
3	G. Meenakshi	Robust stability conditions for nonlinear delay differential systems	2013
4	Dilsad Begam	Robust stability analysis of systems with nonlinear uncertainties	2013
5	L. Sivakumar	Delay dependent Stability analysis of neutral systems with nonlinear uncertainties.	2014
6	S. Vijayakanth	Exponential stability of neutral systems time varying delays	2014

7	C. Munirathnam	Robust stability analysis of delay systems with distributed delays	2014
8	K. A. Elumalai	Exponential stability of delay systems with nonlinear uncertainties	2014
9	Aruna. B	Reciprocally convex approach to H∞ control of neural network with distributed time varying delays.	2015
10	Nandhini. R.	Passivity Analysis of delay systems with leakage delay and nonlinear perturbations	2015
11	Sumithra. L. S.	Stability Analysis of delay systems with mixed time varying delays and nonlinear disturbances	2015
12	Thilagavathi. M.	Robust H-infinity performance analysis of systems with time varying delays	2015
13	Agalaya. R	Non fragile Synchronization of BAM delayed neural networks with randomly accuring Controller gain fluctuations	2016
14	Elakkiya. S	Stochastic Asymptotic stability of neutral type Markovian jumping BAM neural networks	2016
15	Sathyapriya. M	Improved stability analysis for Neutral networks with additive time varying and Markovian jumping parameters	2016
16	Kulasekaran . R.	Stability analysis of uncertain neutral type systems with discrete and distributed delays	2016
17	Sudha. B.P.	H infinity filtering of mixed delayed neural networks	2016
18	Pavithra. S.	Finite time stability of Recurrent neural networks	2017

INVITED TALKS/LECTURES DELIVERED:

1) Delivered Lecture on "**Studies On Differential Equations**" at C. Abdul Hakeem College, Melvisharam, Vellore, Tamilnadu on 25-9-12.

2) Delivered a Lecture on "**REAL ANALYSIS for CSIR-UGC NET**" at Bharathiar University, Coimbatore, on 02.12.2011 and 03.12.2012.

3) Guest Lecture delivered to BSc students in Thiruvalluvar University Constitution college, Arakkonam on 13.08.12

4) Delivered Lecture on **"Matrix Applications"** at Saveetha University, Chennai.

5) Delivered lecture on **Methods of Solving Differential Equation** at Sri Palani Andawar Women's college, Palani, 2015.

6) Delivered Lecture on "**Lyapunov Stability"** in the National Conference on Mathematics Application held at Islamiah College, Vaniyambady on 10-3-16.

7) Delivered a Lecture in the State Level Workshop on "**Recent trends on differential equations and its applications**" at Sri PSG Arts and Science College for Women and Education-Salem, on 27.02.2015.

8) Delivered a Lecture in the one day workshop on "**Abstract algebra and its applications**" at Mahendra Arts & Science College, Namakkal, on 09.10.2015.

9) Delivered a Special Guest Lecture on "**Linear Algebra and its applications**" at VIT University, Vellore, on   .11.2017

10) Delivered a Lecture on "**Number Theory and Cryptography**" at Gobi Arts & Science College, Gobi, on 13.07.2018.

PRESENATATIONS/PARTICIPATIONS IN CONFERENCES/ SEMINAR

1. International Seminar on "Dynamical Systems" held on 16 February 2008 at Gandhigram Rural University Gandhigram, Tamilnadu.

2. National workshop on Soft computing held on 21-27 January 2008 at Gandhigram Rural University Gandhigram, Tamilnadu.

3. National seminar on "Current Scenario in the Applications of Mathematical Sciences" held on 30-31 August 2007 at Vellalar college, Erode, Tamilnadu.

4. National conference on "Mathematics Computing and Modelling" held on 03-04 March 2007 at Gandhigram Rural University Gandhigram, Tamilnadu.

5. State level workshop on "Recent trends in Feed Forward neural networks – Back propagation Algorithms, held on on 22-23 February, 2007 at V.H.N.S.N. College, Viruthungar, Tamilnadu.

6. National workshop on "Coding Theory, Graph Theory and Fractal theory", held on March 21- 25, 2006 at St. Joseph College, Iringalakuda, Kerala.

7. State level conference on "Recent developments in Applied Mathematics" held on 21-22 September 2005 at Jayaraj Annapackiyam College, Periyagulam, Tamilnadu.

8. Symposium on "Nonlinear dynamical Systems" held on at Indian Institute of Science, Bangalore, India.

9. Participated in state level seminar on Establishment of Enterpreneurship development at Chennai on 21-12-12.

10. Participated in International conference on Inventive Computation Technologies(ICICT 2016) organized by RVS Technical college, Coimbatore.

List of publications in Web of Science- SCI Journals with Thomson -ISI- impact factor

S. No	Name of Authors, Title of the paper, Journals Name, Vol. (no.), Year, pages
1.	G. K. Thakur, S. K. Garg, T. Singh, **M. S. Ali**, & T. K. Arora, (2023). Non-fragile synchronization of BAM neural networks with randomly occurring controller gain fluctuation. *Mathematical Biosciences and Engineering*, *20*(4), 7302-7315.
2.	J. Thipcha, P. Tangsiridamrong, T. Botmart, B. Meesuptong, **M.S. Ali**, P. Srisilp, & K. Mukdasai, (2023). Robust stability and passivity analysis for discrete-time neural networks with mixed time-varying delays via a new summation inequality. *AIMS Mathematics*, *8*(2), 4973-5006.
3.	**M. S. Ali,** M. M. Tajudeen, G. Rajchakit, B. Priya, & G. K. Thakur, Adaptive event-triggered pinning synchronization control for complex networks with random saturation subject to hybrid cyber-attacks. *International Journal of Adaptive Control and Signal Processing*.
4.	**M. Syed Ali,** M. H. Mubeen Tajudeen, G. Rajchakit, P. Hammachukiattikul & J. Cao, (2023). Fault-tolerant control of multi-agent systems with input delay and sensor failure. *Asian Journal of Control*.
5.	R. Perumal, M. Hymavathi**, M. S. Ali**, B. A. Mahmoud, W. M. Osman, & T. F. Ibrahim, (2023). Synchronization of Discrete-Time Fractional-Order Complex-Valued Neural Networks with Distributed Delays. *Fractal and Fractional*, *7*(6), 452.
6.	V. Gokulakrishnan, R. Srinivasan, **M. Syed Ali**, & G. Rajchakit, (2023). Finite-time guaranteed cost control for stochastic nonlinear switched systems with time-varying delays and reaction-diffusion. *International Journal of Computer Mathematics*, *100*(5), 1031-1051.
7.	R. Suresh, **M. S. Syed Ali**, & S. Saroha, (2023). Global exponential stability of memristor based uncertain neural networks with time-varying delays via Lagrange sense. *Journal of Experimental & Theoretical Artificial Intelligence*, *35*(2), 275-288.
8.	**M. S. Ali,** M. M. Tajudeen, G. Rajchakit, B. Priya, & G. K. Thakur, Adaptive event-triggered pinning synchronization control for complex networks with random saturation subject to hybrid cyber-attacks. *International Journal of Adaptive Control and Signal Processing*.
9.	G. Narayanan, **M. S. Ali**, J. Wang, S. A. Kauser, A. A. Z. Diab and H. I. A. Ghaffar, "Impulsive Consensus of Fractional-Order Takagi–Sugeno Fuzzy Multiagent Systems With Average Dwell Time Approach and Its Applications: Achieving Finite-Time Consensus," in *IEEE Systems, Man, and Cybernetics Magazine*, vol. 8, no. 3, pp. 41-50, July 2022,
10.	M. Sumathy, P. Venkata Mohan Reddy, M. Maria Susai Manuel, & **M. Syed Ali**, (2022). Oscillation of Third-Order Nonlinear Generalized Difference Equation with Multiple Neutral Terms. *Mathematical Problems in Engineering*, *2022*.
11.	**M. Syed Ali,** R. Agalya, B. Priya, G. Kumar Thakur, & S. Asma Kauser, (2022). Reliable controller for nonlinear multiagent system with additive time varying delay and nonlinear actuator faults. *Mathematical Methods in the Applied Sciences*, *45*(1), 561-574.
12.	G. Narayanan, **M. S. Ali**, Q. Zhu, B. Priya, & G. K. Thakur, (2022). Fuzzy observer-based consensus tracking control for fractional-order multi-agent systems under cyber-attacks and its application to electronic circuits. *IEEE Transactions on Network Science and Engineering*, *10*(2), 698-708.
13.	B. Priya, G. K. Thakur, **M. S. Ali**, G. Stamov, I. Stamova, & P. K. Sharma, (2022). On the finite-time boundedness and finite-time stability of Caputo-type fractional order neural networks with time delay and uncertain terms. *Fractal and Fractional*, *6*(7), 368.
14.	X. Han, M. Hymavathi, S. Sanober, B. Dhupia, & **M. Syed Ali,** (2022). Robust stability of fractional order memristive BAM neural networks with mixed and additive time varying delays. *Fractal and Fractional*, *6*(2), 62.

15.	G. Narayanan, G. Muhiuddin, **M. S. Ali,** A. A. Z. Diab, J. F. Al-Amri, & H. I. Abdul-Ghaffar, (2022). Impulsive synchronization control mechanism for fractional-order complex-valued reaction-diffusion systems with sampled-data control: Its application to image encryption. *IEEE Access*, *10*, 83620-83635.
16.	G. K. Thakur, S. K. Garg, T. Singh, **M. S. Ali,** & T. K. Arora, T. K. (2023). Non-fragile synchronization of BAM neural networks with randomly occurring controller gain fluctuation. *Mathematical Biosciences and Engineering*, *20*(4), 7302-7315.
17.	M. Hymavathi, T. F. Ibrahim, **M. S. Ali,** G. Stamov, I. Stamova, B. A. Younis, & K. I. Osman, (2022). Synchronization of Fractional-Order Neural Networks with Time Delays and Reaction-Diffusion Terms via Pinning Control. *Mathematics*, *10*(20), 3916.
18.	M. Hymavathi, G. Muhiuddin, **M. Syed Ali,** J. F. Al-Amri, N. Gunasekaran, & R. Vadivel, (2022). Global exponential stability of fractional order complex-valued neural networks with leakage delay and mixed time varying delays. *Fractal and Fractional*, *6*(3), 140.
19.	M. Hymavathi, **M. Syed Ali**, T. F. Ibrahim, B. A Younis, K. I. Osman, & K. Mukdasai, (2022). Synchronization of Fractional-Order Uncertain Delayed Neural Networks with an Event-Triggered Communication Scheme. *Fractal and Fractional*, *6*(11), 641.
20.	G. Kumar Thakur, **M Syed Ali**, B. Priya, V. Gokulakrishnan, & S. A. Kauser, (2022). Impulsive effects on stochastic bidirectional associative memory neural networks with reaction-diffusion and leakage delays. *International Journal of Computer Mathematics*, *99*(8), 1669-1686.
21.	G. Narayanan, **M. S. Ali**, H. Alsulami, T. Saeed, & B. Ahmad, (2022). Synchronization of T–S Fuzzy Fractional-Order Discrete-Time Complex-Valued Molecular Models of mRNA and Protein in Regulatory Mechanisms with Leakage Effects. *Neural Processing Letters*, 1-27.
22.	R. Saravanakumar, & **M. S. Ali,** (2022). Extended Dissipative Criteria for Generalized Markovian Jump Neural Networks Including Asynchronous Mode-Dependent Delayed States. *Neural Processing Letters*, 1-23.
23.	**M. Syed Ali,** R. Agalya, B. Priya, G Kumar Thakur, & S Asma Kauser, (2022). Reliable controller for nonlinear multiagent system with additive time varying delay and nonlinear actuator faults. *Mathematical Methods in the Applied Sciences*, *45*(1), 561-574.
24.	N. Gunasekaran, **M S Ali**, S Arik, H A Ghaffar, & A A Z. Diab, (2022). Finite-time and sampled-data synchronization of complex dynamical networks subject to average dwell-time switching signal. *Neural Networks*, *149*, 137-145.
25.	M Mubeen Tajudeen, **M S Ali**, S A Kauser, K Subkrajang, A. Jirawattanapanit, & G Rajchakit, G. (2022). Adaptive event-triggered control for complex dynamical network with random coupling delay under stochastic deception attacks. *Complexity*, *2022*.
26.	**M S Ali**, M Hymavathi, H. Alsulami, T. Saeed, & B. Ahmad, B. (2022). Passivity analysis of fractional-order neutral-type fuzzy cellular BAM neural networks with time-varying delays. *Mathematical Problems in Engineering*, *2022*.
27.	B Priya, **M Syed Ali**, GK Thakur, S Sanober, B Dhupia pth moment exponential stability of memristor Cohen-Grossberg BAM neural networks with time-varying delays and reaction–diffusionChinese Journal of Physics (2021)
28.	S Shanmugam, **M Syed Ali**, R Vadivel, G M Lee, Finite-Time State Estimation for Markovian Jump Neural Networks with Time-Varying Delays via an Extended Wirtinger's Integral Inequality Mathematical Problems in Engineering 2021
29.	**M Syed Ali**, G Narayanan, S Nahavandi, JL Wang, J Cao Global Dissipativity Analysis and Stability Analysis for Fractional-Order Quaternion-Valued Neural Networks With Time DelaysIEEE Transactions on Systems, Man, and Cybernetics: Systems (2021)
30.	**M Syed Ali**, G Narayanan, S Saroha, B Priya, GK Thakur, Finite-time stability analysis of fractional-order memristive fuzzy cellular neural networks with time delay and leakage term Mathematics and Computers in Simulation (2021) 185, 468-485
31.	**M Syed Ali,** M Usha, OM Kwon, N Gunasekaran, G Kumar Thakur, $\mathscr{H}_\infty$/passive non-fragile synchronisation of Markovian jump stochastic complex dynamical networks with time-varying delays, International Journal of Systems Science (2021) 52 (7), 1270-1283

32.	**M Syed Ali,** M Hymavathi, S Saroha, R Krishna Moorthy , Global asymptotic stability of neutral type fractional-order memristor-based neural networks with leakage term, discrete and distributed delays, Mathematical Methods in the Applied Sciences (2021) 44 (7), 5953-5973
33.	**M Syed Ali**, R Agalya, B Priya, G Kumar Thakur, V Shekher, Stability analysis of quasi one-sided Lipschitz non-linear multi-agent system via sampled data control subject to directed switching topology, IMA Journal of Mathematical Control and Information (2021)
34.	**M Syed Ali,** M Hymavathi, Synchronization of fractional order neutral type fuzzy cellular neural networks with discrete and distributed delays via state feedback control, Neural Processing Letters (2021) 53 (2), 929-957
35.	R Vadivel, P Hammachukiattikul, G Rajchakit, **M Syed Ali**, B Unyong Finite-time event-triggered approach for recurrent neural networks with leakage term and its application, Mathematics and Computers in Simulation (2021) 182, 765-790
36.	N Gunasekaran, **M Syed Ali,** Design of stochastic passivity and passification for delayed BAM neural networks with markov jump parameters via non-uniform sampled-data control, Neural Processing Letters (2021) 53 (1), 391-404
37.	**M Syed Ali**, R Agalya, Z Orman, S Arik, Leader-Following Consensus of Non-linear Multi-agent Systems with Interval Time-Varying Delay via Impulsive Control, Neural Processing Letters (2021) 53 (1), 69-83
38.	S Saravanan, **M Syed Ali**, G Rajchakit, B Hammachukiattikul, B Priya Finite-Time Stability Analysis of Switched Genetic Regulatory Networks with Time-Varying Delays via Wirtinger's Integral Inequality Complexity 2021
39.	R Vadivel, **M Syed Ali**, YH Joo, Robust H∞ performance for discrete time TS fuzzy switched memristive stochasticneural networks with mixed time-varying delays, Journal of Experimental & Theoretical Artificial Intelligence (2021) 33 (1), 79-107
40.	**M Syed Ali**, M Usha, OM Kwon, N Gunasekaran, GK Thakur, $\mathcal{H}\infty$/passive non-fragile synchronisation of Markovian jump stochastic complex dynamical networks with time-varying delays, International Journal of Systems Science (2021) 52 (7), 1270-1283
41.	**M Syed Ali**, M Hymavathi, B Priya, SA Kauser, GK Thakur, Stability analysis of stochastic fractional-order competitive neural networks with leakage delay AIMS Mathematics (2021) 6 (4), 3205-3241
42.	**M Syed Ali**, L Palanisamy, N Gunasekaran, A Alsaedi, B Ahmad, Finite-time exponential synchronization of reaction-diffusion delayed complex-dynamical networks, Discrete & Continuous Dynamical Systems-S (2021) 14 (4), 1465

43.	**M.Syed Ali** , G. Narayanan, Sabri Arik, **Controller design for finite-time and fixed-time stabilization of fractional-order memristive complex-valued BAM neural networks with uncertain parameters and time-varying delays** ,**Neural Networks, (2020) 130, 60-74**
44.	**MS Ali, M Usha, A Alsaedi, B Ahmad Synchronization of Stochastic Complex Dynamical Networks with Mixed Time-Varying Coupling Delays, Neural Processing Letters 52 (2), 1233-1250**
45.	**M Syed Ali, M. Usha, Quanxin Zhu and Shanmugam Saravanan, Synchronization analysis for stochastic T-S fuzzy complex networks with Markovian jumping parameters and mixed time-varying delays via impulsive control, Mathematical Problems in Engineering, (2020) Article ID 9739876 https://doi.org/10.1155/2020/9739876**
46.	**M. Syed Ali,** R. Vadivel, **Young Hoon Joo,Drive-response synchronization of uncertain Markov jump generalized neural networks with interval time varying delays via decentralized event-triggered communication scheme Journal of the Franklin Institute , (2020) 357 (11), 6824-6857**
47.	**S.Saravanan, M.Syed Ali , Keum-Shik Hong , Robust resilient H1 performance for finite-time boundedness of neutral type neural networks with time-varying delays,Asian Journal of Control, https://doi.org/10.1002/asjc.2361**
48.	**M. Syed Ali,** J.Yogambigai**, Hamed Alsulami and Mohammed S. Alhodaly Global Lagrange stability for neutral-type inertial neural networks with discrete and distributed time delays , Chineese Journal of Physics, (2020) 65, 513-525**
49.	J.Yogambigai **, M. Syed Ali Hamed Alsulami and Mohammed S. Alhodaly Impulsive and pinning control synchronization of Markovian jumping complex dynamical networks with hybrid coupling and additive interval time-varying delays" Communications in Nonlinear Science and Numerical Simulation , (2020) 85, 105215**
50.	**S.Saravanan, M.Syed Ali, Hamed Alsulami, Mohammed Sh. Alhodaly, Robust H∞ filtering for finite time boundedness of Markovian jump system with distributed time varying delays, International Journal of Systems Science, (2020) http://dx.doi.org/10.1080/00207721.2020.1716097.**
51.	**Vadivel M.Syed Ali, Y. H. Joo Event-triggered H1 synchronization for switched discrete time delayed recurrent neural networks with acutator constraints and nonlinear perturbations, Journal of the Franklin Institute, Volume 357, Issue 7, May 2020, Pages 4079-4108**
52.	**M syed Ali,M USHA,Mohammed Sh. Alhodaly** Synchronization of T-S Fuzzy singular Markovian jumping complex dynamical networks with additive time varying delays via pinning control**, Iranian Journal of Fuzzy Systems, (2020) 17 (5), 53-68**
53.	**M.Syed Ali,** G. Narayanan, Vineet Shekher, Global Mittag-Leffler stability analysis of impulsive fractional-order complex-valued BAM neural networks with time varying delays, Communications in Nonlinear Science and Numerical Simulation**, Volume 83, April 2020, 105088**
54.	M.Syed Ali , G. Narayanan, VineetShekher, HamedAlsulami, TareqSaeed, Dynamic stability analysis of stochastic fractional-order memristor fuzzy BAM neural networks with delay and leakage terms, Applied Mathematics and Computation. **(2019) 124896**

55.	N. Gunasekaran, R Saravanakumar, M Syed Ali, Q Zhu, Exponential Sampled-data control for T-S Fuzzy Systems: Application to Chua's circuit , Journal: *International Journal of Systems Science* (TSYS) (2019) 1-14
56.	K.S.Anand[a]G.A.Harish Babu[b]M.Syed Ali,, S.Padmanabhan[d] , Synchronization of singular Markovian jumping neutral complex dynamical networks with time-varying delays via pinning control, Acta Mathematica Scientia, 2020, 40B(3): 863–886
57.	M. Usha, Finite-time synchronization of sampled-data Markovian jump complex dynamical networks with additive time-varying delays based on dissipative theory, Journal of Computational and Applied Mathematics
58.	K.S.Anand[a]G.A.Harish Babu[b]M.Syed Ali,, S.Padmanabhan[d] Finite-time synchronization of Markovian jumping complex dynamical networks and hybrid couplings, Chinese Journal of Physics, Volume 62, December 2019, Pages 304-312
59.	N. Gunasekaran , M. Syed Ali, Pavithra, Finite-time L∞ performance state estimation of recurrent neural networks with sampled-data signals, Journal name: Neural Processing Letters , Accepted in press
60.	M. Syed Ali, Agalya, Non-fragile sampled data control for stabilization of non-linear multi-agent system with additive time varying delays Markovian jump and uncertain parameters , Nonlinear Analysis: Hybrid Systems, Accepted in press
61.	R. Vadivel, M. Syed Ali, Bashir Ahamed, Ahamed Alshadi, Extended dissipativity and event-triggered synchronization for T-S fuzzy Markovian jumping delayed stochastic neural networks with leakage delays via fault tolerant control , Softcomputing, Accepted in press
62.	M. Syed Ali , R. Agalya , Keum-Shik Hong , Non-fragile synchronization of genetic regulatory networks with randomly occurring controller gain fluctuation, Chineese Journal of Physics. Accepted in press
63.	R. Vadivel, M. Syed Ali, Jinde Cao, Y. H. Joo, Synchronization of decentralized event triggered uncertain switched neural networks with two additive time-varying delays", Nonlinear Analysis: Modelling and Control.Nonlinear Analysis Modelling , Control, Accepted in press
64.	S. Saravanan , **M. Syed Ali,** Bashir Ahamed, Ahamed Alshadi, **Finite-time passivity for neutral-type neural networks with time-varying delays- via auxiliary function-based integral** Nonlinear Analysis Modelling Control, Accepted in press
65.	M. Syed Ali, R. Vadivel, O. M. Kwon , Decentralized event-triggered impulsive synchronization for semi-Markovian jump delayed neural networks with leakage delay and randomly occurring uncertainties", International Journal of Systems Science, Accepted in press
66.	**M Syed Ali,** M. Narayanan, Zeynub Orman, Vineet Shekha, Sabri Arik , Global Stability Analysis of Fractional-Order Fuzzy BAM Neural Networks with Time Delay and Impulsive Effects, Communications in Nonlinear Science and Numerical Simulation, Accepted in press
67.	M. Syed Ali, J.Yogambigai, Faris Alzahrani, Robust *H∞* filtering of stochastic switched complex dynamical networks with parameter uncertainties, disturbances, and time-varying delays, Neural Processing Letters, https://doi.org/10.1007/s11063-019-10038-4
68.	R. Vadivel , **M. Syed Ali,** Faris Alzahrani, Robust *H∞* synchronization of Markov jump stochastic uncertain neural networks with decentralized event-triggered mechanism, Chineese Journal of Physics, https://doi.org/10.1016/j.cjph.2019.02.027

69.	**M Syed Ali,** M. Usha, Zeynub Orman, Sabri Arik , Improved result on state Estimation for Complex Dynamical Networks with Time Varying Delays via Sampled-Data Control, Neuralnetworks, https://doi.org/10.1016/j.neunet.2019.02.004
70.	**M Syed Ali,** M. Usha, S. Saravanan and Q. Zhu , Global synchronization of delayed complex networks with hybrid coupling, control design of actuator saturation and stochastic disturbances with randomly occurring nonlinearities" **Mathematical Problems in Engineering**, Accepted in press
71.	S. Saravanan, M. Syed Ali, R. Saravanakumar, Finite-time non-fragile dissipative stabilization of delayed neural networks, Neural Processing Letters, https://doi.org/10.1007/s11063-018-9844-2
72.	M. Syed Ali, M. Usha, Jinde Cao & Guoping Lu, Synchronisation analysis for stochastic T–S fuzzy complex networks with coupling delay, International journal of Systems science (2019)Volume 50, 2019 - Issue 3 585-598.
73.	**M. Syed Ali 1,** S. Saravanan, L. Palanisamy, Stochastic finite-time stability of reaction-diffusion Cohen-Grossberg neural networks with time-varying delays, **Chinese Journal of Physics,** 57, February 2019, Pages 314-328.
74.	**M. Syed Ali** , L. Palanisamy, J.Yogambigai and Linshan Wang , Passivity-based synchronization of Markovian jump complex dynamical networks with time-varying delays, parameter uncertainties, reaction-diffusion terms, and sampled-data control, Journal of Computational Mathematics **, 352, 15 May 2019, Pages 79-92**
75.	**M. Syed Ali,** N. Gunasekaran, Young Hoon Joo **,** Stabilization of neutral type neural networks with mixed time-varying delays via Sampled-Data control**, Neural Processing Letters, https://doi.org/10.1007/s11063-018-9946-x**
76.	**M. Syed Ali,** N. Gunasekaran, M. Agalya, Young Hoon Joo, Non-fragile synchronization of mixed delayed neural networks with randomly occurring controller gain fluctuations, **International Journal of Systems Science, 49 (16), 3354-3364 (2018)**
77.	**M. Syed Ali ,** J. Yogambigai, S. Saravanan, S. Elakkia, Stochastic stability of neutral-type Markovian-jumping BAM neural networks with time varying delays, Journal of Computational and applied Mathematics, **https://doi.org/10.1016/j.cam.2018.09.035634**
78.	**M. Syed Ali,** R. Vadivel, O. M. Kwon, Kadarkarai Murugan, Event triggered finite time $H\infty$ boundedness of uncertain Markov jump neural networks with distributed time varying delays**, Neural Processing Letters, https://doi.org/10.1007/s11063-018-9895-4**

79.	S. Saravanan, V. Umesha, M. Syed Ali and S. Padmanabhan, Exponential passivity for uncertain neural networks with time-varying delays based on weighted integral inequalities, Neurocomputing, (314) 2018, 429-436.
80.	**M Syed Ali,** R. Vadivel, Kadarkarai Murugan, Finite time decentralized event-triggered communication scheme for neutral - type Markovian jump neural networks with time varying delays, Chinese Journal of Physics, <u>Volume 56, Issue 5</u>, October 2018, Pages 2448-2464
81.	**M Syed Ali,** J. Yogambigai, Extended dissipative synchronization of complex dynamical networks with additive time-varying delay and discrete-time information, Journal of Computational and Applied Mathematics, <u>Volume 348, 1 March 2019, Pages 328-341</u>
82.	J. Yogambigaia, **M Syed Ali,** Quanxin Zhu and Jingwei Cai, Exponential Lagrange stability for Markovian jump uncertain neural networks with leakage delay and mixed time-varying delays via impulsive control , **Mathematical Problems in Engineering Accepted(2018)** Article ID 6489517, https://doi.org/10.1155/2018/6489517
83.	**M. Syed Ali,** S. Saravanan, Finite-time non-fragile dissipative stabilization of delayed neural networks, **Neural Processing Letters,** https://link.springer.com/article/10.1007/s11063-018-9844-2 (in press)(2018)
84.	**M. Syed Ali,** N. Gunasekaran, J. Cao, Sampled-data control for state estimation of neural networks with additive time-varying delays, **Acta Mathematica Scientia** 2019, 39B(1): 1–19
85.	**M. Syed Ali,** N. Gunasekaran, Sampled-data state estimation of Markovian jump static neural networks with interval time-varying delays, **Computational and Applied Mathematics,** https://link.springer.com/article/10.1007%2Fs40314-017-0470-9 (2018)
86.	**M. Syed Ali,** R.Vadivel , Decentralized event triggered exponential stability for uncertain delayed genetic regulatory networks with Markov jump parameters and distributed delays **Neural Processing Letters**, 47(3), (2019)1219-1252
87.	**M. Syed Ali,** J.Yogambigai, Synchronization criterion of complex dynamical networks with both leakage delay and coupling delay on time scales, **Neural Processing Letters** 49(2) (2019), 453-466
88.	S. Saravanan, M. Syed Ali Improved results on finite-time stability analysis of neural networks with time-varying delays, **ASME *J. Dyn. Sys., Meas., Control.*** 2018; 140(10):101003-101003-7.

89.	P.Baskar, S. Padmanaban, **M.Syed Ali,** Novel delay-dependent stability condition for mixed delayed stochastic neural networkswith leakage delay signals**, International journal of Computer Mathematics, (2018)** doi.10.1080/00207160.2018.143958
90.	R. Vadivel , **M.Syed Ali,** Design of robust reliable control for T-S fuzzy Markovian jumping delayed neutral type neural networks with probabilistic actuator faults and leakage delays: An event-triggered communication scheme **ISA Transactions**, doi:10.1016/j.isatra.2018.01.030
91.	**M. Syed Ali,** K. Meenakshi, N. Gunasekaran, Kadarkarai Murugan, Dissipativity analysis of discrete-time Markovian jumping neural networks with time-varying delays, **Journal of Difference Equation and Applications,** Volume 24, 2018, <u>6</u>, 859-871. https://doi.org/10.1080/10236198.2018.1433171
92.	**M. Syed Ali,** J.Yogambigai, O.M. Kwon Finite-time robust passive control for a class of switched reaction-diffusion stochastic complex dynamical networks with coupling delays and impulsive control, International Journal of systems science 49(2018) 718-735
93.	**M. Syed Ali**, Quanxin Zhu, S. Pavithra, N. Gunasekaran, A study on $(Q, \ S, \ R) \ - \ \gamma \ -$ dissipative synchronization of coupled reaction-diffusion neural networks with time-varying delays, International Journal of systems science 49 (2018) 755-765
94.	Neyir Ozcan, **M. Syed Ali**, J. Yogambigai, Quanxin Zhu and Sabri Arik, Robust synchronization of uncertain Markovian jump complex dynamical networks with time-varying delays and reaction-diffusion terms via sampled-data control, Journal of Franklin Institute,<u> 355, (3</u>), 2018, Pages 1192-1216
95.	P.Baskar, S. Padmanaban, **M.Syed Ali,** finite-time H∞ control problem of Markovian jumping neural networks of neutral type with distributed time varying delays, Acta Mathematica Scientia 2018,38B(2):1–19
96.	**M. Syed Ali**, R. Saravanan, Finite-time stability for memristor based switched neural networks with time-varying delays- via average dwell time approach Neurocomputing, https://doi.org/10.1016/j.neucom.2017.10.003
97.	**M. Syed Ali**, R. Vadivel, O..M. Kwon, Decentralized event-triggered stability analysis of neutral - type BAM neural networks with Markovian jump parameters and mixed time varying delays, International Journal of Control, Automation and Systems 16(3) (2018) 983-993.
98.	R. Saravanakumar**, M. Syed Ali,** He Huang, Jinde Cao, Y. H. Joo, Robust H∞ state-feedback control for nonlinear uncertain systems with mixed time-varying delay, International Jouranl of Control, Automation & Systems 2018 **16 (1), 225-233**

99.	**M. Syed Ali,** K. Meenakshi, N. Gunasekaran, M. Usha , Finite-time passivity of discrete-time T-S fuzzy neural networks with time-varying delays, Iranian journal of Fuzzy systems, **(2018) 15(4) 93-107**
100.	R. Saravanakumar, G. Rajchakit, **M. Syed Ali**, Y. H. Joo **,** Exponential Dissipativity Criteria for Generalized BAM Neural Networks with Variable Delays, Neural Computing and Applications, **(2017): DOI: 10.1007/s00521-017-3224-0**
101.	**M. Syed Ali,** S. Saravanan, Q. Zhu**,** Non-fragile finite-time H∞ state estimation of neural networks with distributed time-varying delay, Journal of the Franklin Institute, https://doi.org/10.1016/j.jfranklin.2017.09.002
102.	R. Saravanakumar, G. Rajchakit, **M. Syed Ali**, Y. H. Joo, Extended dissipativity of generalised neural networks including time delays, International Journal of Systems Science · Volume 48, 2017 - Issue 11 Pages 2311-2320
103.	R. Saravanakumar, G. Rajchakit, **M. Syed Ali**, Zhengrong Xiang Y. H. Joo, Robust extended dissipativity criteria for discrete-time uncertain neural networks with time-varying delays, **Neural Computing and Applications** 2017 , DOI: 10.1007/s00521-017-2974-z
104.	**M. Syed Ali,** J.Yogambigai, Passivity-based synchronization of stochastic switched complex dynamical networks with additive time-varying delays via impulsi ve control, Neurocomputing, https://doi.org/10.1016/j.neucom.2017.07.053
105.	**M. Syed Ali**, R. Vadivel, Decentralized event triggered exponential stability for uncertain delayed genetic regulatory networks with Markov jump parameters and distributed delays",Neural Processing Letters, DOI: 10.1007/s11063-017-9695-2 (2017)
106.	**M. Syed Ali,** S. Saravanan, Q. Zhu, Finite-time stability of neutral type neural networks with random time-varying delays, International j. of. Systems science, http://dx.doi.org/10.1080/00207721.2017.1367434.
107.	**M. Syed Ali,** R. Vadivel, R. Saravanakumar, Event-triggered state estimation for Markovian jumping impulsive neural networks with interval time varying delays, International Journal of Control,(2017) 1-21. http://dx.doi.org/10.1080/00207179.2017.1350884
108.	**M. Syed Ali,** N. Gunasekaran, State Estimation of static neural networks with interval time varying delays and sampled data control, Computational and Applied Mathematics (2017)1-27 DOI: 10.1007/s40314-017-0470-9 1
109.	**M. Syed Ali,** N. Gunasekaran, B. Aruna, Design of sampled-data control for multiple time delayed generalized neural networks based on delay-partitioning approach, International journal of systems science, 48(13) (2017) 2794-2810
110.	**M. Syed Ali**, S. Saravanan, Finite-time stability for memristor based uncertain neural networks with time-varying delays- via average dwell time approach Chinese Journal of Physics , DOI: 10.1016/j.cjph.2017.08.021

111.	**M. Syed Ali**, K. Meenakshi and N. Gunasekaran , Finitetime H_∞ boundedness of Markovian jumping discrete-time neural network with time varying delay, International journal of Control Automation and Systems, 16(2018) 1 – 8 http://dx.doi.org/10.1007/s12555-016-0712-4
112.	**M. Syed Ali,** K. Meenakshi and N. Gunasekaran, Finitetime H_∞ boundedness of discrete-time neural network norm bounded disturbances with time varying delay, International journal of Control Automation and Systems, 15(6) (2017) 2681-2689
113.	**M. Syed Ali,** S. Saravanan, M. Esther Rani, S. Elakkia, Jinde Cao, Ahmed Alsaedi, Tasawar Hayat, Asymptotic stability of Cohen-Grossberg BAM neutral type neural networks with distributed time varying delays, Neural Processing Letters, **DOI 10.1007/s11063-017-9622-6**
114.	R. Saravanakumar, G. Rajchakit, **M. Syed Ali**, Y. H. Joo, Exponential Dissipativity Criteria for Generalized BAM Neural Networks with Variable Delays, International Journal of Systems science, (2017) 2311- 2320
115.	Emel Arselan**, M. Syed Ali,** R. Vadivel, S. Arik**,** Event-triggered H-infinity filtering for delayed neural networks via sampled-data, **Neural Networks,** 91,2017,11-21
116.	**Syed Ali, M.,** N.Gunsekaran, M. Esther Rani, Robust Stability of Hopfield Delayed Neural Networks via an Augmented L-K Functional, Neurocomputing **, 234(2017) 198–204.**
117.	**M. Syed Ali**, J.Yogambigai, Finite-time robust stochastic synchronization of uncertain Markovian complex dynamical networks with mixed time-varying delays and reaction-diffusion terms via impulsive control, Journal of Franklin insistute Volume 354, Issue 5, March 2017, Pages 2415–2436
118.	**M. Syed Ali,** J.Yogambigai, Exponential stability of semi-Markovian switching complex dynamical networks with mixed time varying delays and impulse control, Neural Processing Letters, _August 2017, Volume 46, Issue 1, pp 113–133.
119.	Emel Arslan*, **M. Syed Ali,** S.Saravanan*, Finite-time stability of stochastic Cohen-Grossberg neural networks with Markovian jumping parameters and distributed time-varying delays, Neural Processing Letters**,** August 2017, Volume 46, Issue 1, pp 71–81
120.	**Syed Ali, M.,** N.Gunsekaran, O.M. Kwon**,** Design of Passivity and Passification for Delayed Neural Networks with Markovian Jump Parameters via Non-Uniform Sampled-Data Control, Neural Computing Applications, **DOI: 10.1007/s00521-016-2671-3**
121.	**M. Syed Ali,** N. Gunasekaran, R. Saravanakumar*, Design of Passivity and Passification for Delayed Neural Networks with Markovian Jump Parameters via Non-Uniform Sampled-Data Control, Neural Computing Applications,□DOI: 10.1007/s00521-016-2682-0
122.	**M. Syed Ali,** J.Yogambigai and Jinde Cao, *, Synchronization of master-slave Markovian switching complex dynamical networks with time-varying delays in nonlinear function via sliding mode control, Acta Mathematica Scientia, Volume 37, Issue 2, March 2017, Pages 368–384.

123.	Sibel senan, **M. Syed Ali**, R.Vadivel and Sabri Arik **,** Decentralized event-triggered synchronization of uncertain Markovian jumping neutral - type neural networks with mixed delays, Neural Networks **,** 86, 2017,32-41. http://dx.doi.org/10.1016/j.neunet.2016.10.003
124.	M. Syed Ali, , R. Saravanakumar, C. K. Ahn, H.R. Karimi, Stochastic $H\infty$ Filtering for Neural Networks with Leakage Delay and Mixed Time-Varying Delays, Information Sciences,388-389(2017) 118-134
125.	**M. Syed Ali,** N. Gunasekaran, C. K. Ahn, Sampled-Data stabilization for fuzzy Genetic Regulatory Networks with Leakage Delays**,** IEEE/ACM Transactions on Computational Biology and Bioinformatics, **15, 1,(2018) 271-285.**
126.	**Syed Ali, M.,** M. Esther Rani, □Passivity analysis of stochastic neural networks with leakage delay and Markovian jumping parameters□ *Neurocomputing,* Volume 218, 19 December 2016, Pages 139–145.
127.	**Syed Ali, M.,** S. Saravanan, Finite-time $L2$-gain analysis for switched neural networks with time-varying delay**,** Neural Computing and Applications 2018, Volume 29, Issue 4, pp 975–984.
128.	**M. Syed Ali**, S. Saravanan, J. Cao, Finite-time boundedness, L2-gain analysis and control of Markovian jumps switched neural networks w additive time-varying delays, *Nonlinear Analysis Hybrid Systems*, 23 (2017) 27-43.
129.	**M. Syed Ali,** J. Yogambigai, Synchronization of complex dynamical networks with hybrid coupling delays on time scales by handling multitude Kronecker product terms, Applied Mathematics and Computation, 291(2016) 244-258.
130.	R. Saravanakumar, **M. Syed Ali,** H.R. Karimi,Robust H1 control for a class of uncertain stochastic Markovian jump systems (SMJSs) with interval and distributed time-varying delays, *International Journal of Systems Science,* 48(4) 2017, 1-1
131.	R. Saravanakumar, **M. Syed Ali,** Robust H1 control for uncertain Markovian jump systems with mixed delays, *Chineese Physics B*, **Vol. 25, No. 7 (2016) 070201**
132.	R. Saravanakumar, **M. Syed Ali**, C. K. Ahn, P. Shi, H.R. Karimi, Stability of Markovian Jump Generalized Neural Networks with Interval Time-Varying Delays, *IEEE Transactions on Neural Networks and Learning Systems 28(8) 2017 , 2162- 2388*
133.	**Syed Ali, M.,** M. Esther Rani, Passivity analysis of uncertain stochastic neural networks with time-varying delays and Markovian jumping parameters, *Network: Computation in neural systems*, 2015 26(3-4):73-96
134.	**Syed Ali, M.,** N.Gunsekaran, Q. Zhu State estimation of T-S fuzzy delayed neural networks with Markovian jumping parameters using sampled-data control, *Fuzzy Sets and Systems,*306 (2017) 87–104.
135.	Eulum Yuesel, **Syed Ali, M.,** N.Gunsekaran, S. Arik Sampled-data filtering of Takagi-Sugeno fuzzy neural networks with interval time-varying delays, *Fuzzy Sets and Systems*, 316,2017, 69-81.
136.	**Syed Ali, M.,** S.Saravanan, S. Arik Finite-time H1 filtering for switched neural networks with time-varying delays *Neurocomputing*, 207(26) 2016, 580- 589.
137.	**Syed Ali, M.,** R. Saravanakumar Improved H1 performance analysis of uncertain Markovian jump systems with overlapping time-varying delays, *Complexity,* DOI 10.1002/cplx.21760

138.	**Syed Ali, M.,** R. Saravanakumar. J. Cao, H. Huang H1 state estimation of generalized neural networks with interval time-varying delays, *International Journal of Systems Science* http://dx.doi.org/10.1080/00207721.2015.1135359
139.	**Syed Ali, M.,** S.Saravanan Robust finite-time H control for a class of uncertain switched neural networks of neutral-type with distributed time varying delays. *Neurocomputing,* 177 (2016) 454–468.
140.	**Syed Ali, M.,** R. Saravanakumar, M. Hua $H\infty$ state estimation of stochastic neural networks with mixed time-varying delays, *Softcomputing,* 2016, 20(9) 3475–3487
141.	**Syed Ali, M.,** R. Saravanakumar S.Arik Novel H state estimation of static neural networks with interval time-varying delays via augmented Lyapunov–Krasovskii functional *Neurocomputing,* 171(2016)949–954
142.	**Syed Ali, M.,** R. Saravanakumar J.Cao New passivity criteria for memristor-based neutral-type stochastic BAM neural networks with mixed time-varying delays *Neurocomputing,* 171(2016)1533–1547
143.	**Syed Ali, M.,** R. Saravanakumar Robust H1 control of uncertain systems with two additive time-varying delays, *Chinese Physics B* Vol. 24, No. 9 (2015) 090202
144.	**Syed Ali, M.,** R. Saravanakumar Augmented Lyapunov approach to H state estimation of static neural networks with discrete and distributed time varying delays, *Chinese Physics B* Vol. 24, No. 5 (2015) 050201
145.	**Syed Ali, M.,** R. Saravanakumar, Q. Zhu Less conservative delay-dependent $H\infty$ control of uncertain neural networks with discrete interval and distributed time-varying delays *Neurocomputing*, (2015) 166, 84-95.
146.	**Syed Ali, M.,** S. Arik R. Saravanakumar Delay-dependent stability criteria of uncertain Markovian jump neural networks with discrete interval and distributed time-varying delays, *Neurocomputing,* 158(2015)167–173.
147.	**Syed Ali, M.,** R. Saravanakumar Augmented Lyapunov approach to $H\infty$ state estimation of static neural networks with discrete and distributed time-varying delays *Chineese Physics B* (2015) 24, No. 5 (2015) 050210
148.	M. **Syed Ali,** P. Balasubramaniam Q.Zhu Stability of stochastic fuzzy BAM neural networks with discrete and distributed time-varying delays, *Int. J. Mach. Learn. & Cyber.*(2017)8(1), 263-273.
149.	M. **Syed Ali,** P. Balasubramaniam F. A. Rihan S. Lakshmanan Stability of Stochastic Takagi-Sugeno Fuzzy Cohen-Grossberg BAM Neural Networks with Mixed Time-Varying Delays, *Complexity,* 21, Issue 5 May/June 2016 Pages 143–154
150.	**Syed Ali, M.,** R. Saravanakumar Novel delay-dependent robust $H\infty$ control of uncertain systems with distributed time-varying delays, *Applied Mathematics and Computation,* (2014), 550-
151.	**Syed Ali, M.,** R. Saravanakum Improved Delay-dependent robust $H\infty$ control of uncertain Stochastic systems with Interval Time-varying and Distributed delays *Chineese Physics B*, Vol. 23, No. 12 (2014) 120201
152.	**Syed Ali, M.,** Stochastic stability of uncertain recurrent neural networks with Markovian jumping parameters, Acta Mathematica Scientia, 2015,35B(5):1–15

153.	**Syed Ali, M.,** Stability analysis of Markovian Jumping recurrent neural networks with discrete and distributed time varying delays Neurocomputing, 149(2015) 1280–1285.
154.	**Syed Ali, M.,** Stability analysis of Markovian Jumping stochastic Cohen-Grossberg neural networks, with discrete and distributed time varying delays Chinese Physics B,6(2014) 060702
155.	**Syed Ali, M.,** Robust stability of stochastic uncertain recurrent neural networks with Markovian jumping parameters and time-varying delays, Int. J. Mach. Learn. & Cyber. 5 (2014)13-22
156.	**Syed Ali, M.,** Robust stability of stochastic fuzzy impulsive recurrent neural networks with time-varying delays, Iranian Journal of Fuzzy Systems 11(4), (2014) 1-13.
157.	**Syed Ali, M.,** Novel delay dependent stability analysis of Takagi - Sugeno fuzzy uncertain neural networks with time varying delays Chinese Physics B, 21(7) (2012)
158.	**Syed Ali, M.,** On exponential stability of neutral delay differential system with nonlinear uncertainties, Communications in Nonlinear Science and Numerical Simulation, 17 (2012)2595-2601
159.	**Syed Ali, M.** Global asymptotic stability of stochastic fuzzy recurrent neural networks with mixed time-varying delays,Chinese Physics B,20, 8 (2011) 080201
160.	Balasubramaniam. P, **Syed Ali, M.,** Global asymptotic stqbility of dyzzy cellular neural networks with multiple discrete and distributed time varying delays, Communications in Nonlinear Science and Numerical Simulation, 6(7) (2011) 2907- 2916.
161.	P.Balasubramaniam. **Syed Ali, M.,** Stability analysis of Takagi-Sugeno stochastic fuzzy Hopfield neural networks with discrete and distributed time varying delays, Neurocomputing, 74(10) (2011) 1520- 1526.
162.	P. Balasubramaniam, **Syed Ali, M.,** Stochastic stability of uncertain fuzzy recurrent neural networks with Markovian jumping parameters,International Journal of Computers Mathematics, 2011, 88 (5) , 892-904
163.	**Syed Ali, M.,** Marudai. M. Global asymptotic stability of stochastic Discrete – time neural networks with time-varying delays, Mathematical and Computer Modelling, 54 (2011) 1979–1988
164.	Balasubramaniam. P **Syed Ali, M.,** Stability analysis of Takagi – Sugeno fuzzy Cohen – Grossberg BAM neural networks with discrete and distributed time varying delays, Mathematical and Computer Modeling,(2011)(53)151-160.
165.	Balasubramaniam. P, **Syed Ali, M.,** S. Arik Global asymptotic stability of stochastic fuzzy cellular neural networks with multiple time-varying delays, Expert System with Applications, (37)(*2010)* 7737-7744
166.	Balasubramaniam. P, **Syed Ali, M.,** Robust stability of uncertain fuzzy cellular neural networks with time varying delays and reaction diffusion terms Neurocomputing,74 (2010) 439-446
167.	Balasubramaniam. P, **Syed Ali, M.** Robust exponential stability of uncertain fuzzy Cohen-Grossberg neural networks with time-varying delays , Fuzzy Sets and Systems 2010 (161) , 608-618.

168.	**Syed Ali, M.,** Balasubramaniam. P, Exponential Stability of time delay differential Systems *International Journal of Computers Mathematics,2010, (***87), 1363–1373.
169.	**Syed Ali, M.,** Balasubramaniam. P Global exponential stability of uncertain fuzzy BAM neural networks with time-varying delays Chaos, Solitons and Fractals, 2009(42), 2191-2199
170.	**Syed Ali, M.,** Balasubramaniam. P, Robust stability of uncertain fuzzy Cohen-Grossberg BAM neural networks with time-varying delays, Expert Systems with Applications, 2009, (36) 10583-10588
171.	Balasubramaniam. P, **Syed Ali, M.,** Kim, J.H. Faedo-Galerkin approximate solutions for stochastic semilinear integrodifferential equations Computers and Mathematics with Applications, 2009, (58) 48-57
172.	**Syed Ali, M.,** Balasubramaniam. P,Stability analysis of uncertain fuzzy Hopfield neural networks with time delays, Communications in Nonlinear Science and Numerical Simulation 2009 (14) 2776-2783
173.	**Syed Ali, M.,** Balasubramaniam. P, Exponential stability of uncertain stochastic fuzzy BAM neural networks with time-varying delays, Neurocomputing, 2009(72) 1347-1354
174.	**Syed Ali, M.,** Balasubramaniam. P, Robust stability results for uncertain stochastic neural networks with discrete interval and distributed time-varying delays, Physics Letters A 2008 (372) 5159-5166

LIST OF PUBLICATIONS IN CONFERENCE PROCEEDINGS

1.	N. Gunasekaran, **M. Syed Ali**	Sampled-data State Estimation for Delayed Markovian Jump Neural Networks based on Passive Theory, International Conference on Inventive Computation Technologies, (ICICT 2016) *Publisher: IEEE*, ISBN: 978-1-5090-1286-2, OI:10.1109/INVENTIVE.2016.7830228, (2016).
2.	**R. Saravanakumar;** M. Syed Ali	H∞ state estimation control of neural networks with distributed time-varying delays, Proc. of IEEE Int. Conf.(ISCMI2014) INDIA(2014) DOI: 10.1109/ISCMI.2014.36
3.	**R. Saravanakumar;** M. Syed Ali, Grienggrai Rajchakit	Improved stability analysis of delayed neural networks via Wirtinger based double integral inequality, Proc. of IEEE Int. Conf. (ICICT2016) INDIA (2016)DOI:10.1109/I NVENTIVE.2016.7830198
4.	R. Saravanakumar **M.Syed Ali**	Delay-dependent stability criteria of neural networks with interval and distributed time-varying delays, *International Conference on Mathematical Sciences, Elsevier Publications.*2014
5.	**Syed Ali, M.,** Balasubramaniam. P,	Stability of fuzzy Hopfield neural networks with discrete and distributed time varying delays, *Proceedings of the IEEE international joint conference on neural networks'09* 2009
6.	**Syed Ali, M.,** **B**alasubramaniam. P,	Approximation of solutions to stochastic evolution integro differential equations, Mathematics Computing and Modeling, Narosa Publishers, India, 2007, pp. 289-298.
7.	**M. Syed Ali**	Improved stability analysis of delayed neural networks via Wirtinger based double integral inequality, IEEE proceedings of ICICT 2016.
8.	K. Meenakshi **M. Syed Ali**	T-S Fuzzy Stochastic Discrete-Time Neural Networks with Time-Varying Delays**,** International Journal of Mathematics And its Applications Volume 5, Issue 4–B (2017), 225–233.

10.	K. Meenakshi M. Syed Ali	Robust Control of Discrete-Time Uncertain Recurrent Neural Networks with Discrete and Distributed Interval TimeVarying Delays, International Journal of Advance Research, Ideas and Innovations in Technology. (2017) 770- 780
11.	J. Yogambigai M. Syed Ali	Finite-time and Sampled-data Synchronization of Delayed Markovian Jump Complex Dynamical Networks Based on Passive Theory, Third International Conference on Science Technology Engineering & Management (ICONSTEM) (2017)

RESEARCH COLLABORATORS:

- P. BalasubramaniamGandhigram Rural University

- Sabri Arik, Istanbul Unıversity

- Jinde Cao South East University

- Hamid Reza KarimiPolitecnico di Milano

- Peng Shi, The University of Adelaide

- Young Hoon Joo, Kunsan National University

- Fathalla A. Rihan, United Arab Emirates University and Helwan University

- Lakshmanan Shanmugam Kunsan National University

- Jeong-Hoon Kim, USA

  OM Kwon   Chungbuk Natinonal University

Mingang Hua , Hohai University

Muthiah Marudai, Bharathidasan University

Eylem Yucel Demirel, Istanbul University

Reviewer in the journals:

- Mathematical Review
- Applied Mathematics and Computation
- Complexity
- International Journal of Systems Science
- Journal of Franklin Institute
- Journal of machine learning and cybernetics
- Nonlinear dynamics
- Nonlinear Analysis and Hybrid Systems
- Neurocomputing
- Neural Processing Letters
- Neural Computing and Applications
- DCDIS Series A: Mathematical Analysis
- IEEE Transactions on Neural Networks and Learning Systems
- Advances in Difference Equations
- Springer Plus
- Acta Mathematica Scientia

REFERENCE:

1. **Dr. P. Balasubramaniam,**

   Professor and Head,   Department of Mathematics,

   Gandhigram Rural Institute – Deemed University, Gandhigram – 624 302,

   Tamilnadu, India.

   E_mail: balugru@gmail.com

   Ph: 0451-2452371(O),   Cell: 91-9488212371(M).

3. **Dr. N. Sukavanam,**

   Professor,   Deptment of Mathematics,

   Indian Institute of Technology, Roorkee.

   Utharkand, India.

   E_mail: nsukavanam@yahoo.com

   Ph: 01332-85341

4. **Dr. M. Marudai,**

   Professor , Department of Mathematics,

   Bharathidasn University,   Trichy, Tamilnadu, India.

   E_mail: marudaim@hotmail.com

   Cell: 91- **9486584463** (M).

5. **Dr. Raju. K. George**

   Dean(R & D), Dean(Students Welfare)

   Senior Professor of Mathematics,

   Indian Institute of Space Science and Technology, Valiyamala P. O.

   Trivandrum 695547, India

   Email: rkg.iist@gmail.com

   Phone(O) +91-471-256-8413

   Mobile +91-944-643-2507