

## Faculty Profile



Name : Dr. M. Syed Ali  
Designation : Assistant Professor  
Specialization : Studies on Dynamical Systems, Stochastic Systems  
and Fuzzy Systems

### Contacts

#### Address

Office : Department of Mathematics,  
Thriuvalluvar University,  
Serkkadu, Vellore- 632115.

Residence : 5/23, Pandiyan Street,  
Nalla Goundan Palayam,  
Gobichetti Palayam, Erode. 638 452

#### Phone

Office :  
Residence :  
Mobile : 91-9788163814

E- Mail : syedgru@gmail.com

### Membership:

#### Projects (Total Projects: TWO)

- (i) Title : **“STABILITY ANALYSIS AND STABILIZATION OF NEURAL SYSTEMS WITH TIME VARYING DELAYS AND MARKOVIAN JUMPING PARAMETERS”**
- Duration : Three Years (2012 - 2015)
- Funding Agency : National Board for Higher Mathematics, Mumbai, India,
- Amount Sanctioned : Rs. 10, 68,500/-
- (ii) Title : **“STUDIES ON ASYMPTOTIC BEHAVIOR OF DYNAMICAL SYSTEMS WITH STOCHASTIC PERTURBATION”**
- Duration : Three Years (2012 - 2015)
- Funding Agency : Department of Science and Technology, New Delhi
- Amount Sanctioned : Rs. 13, 17,000/-

## **Publications:**

### **Articles (Total Articles 21)**

(1)

Title : Robust stability of stochastic fuzzy impulsive recurrent neural networks with time-varying delays  
Author : **Syed Ali, M.,**  
Journal Name : Iranian Journal of Fuzzy Systems  
Volume : in press  
Year : 2012  
Pages : ---

(2)

Title : Novel delay dependent stability analysis of Takagi - Sugeno fuzzy uncertain neural networks with time varying delays  
Authors : **Syed Ali, M.,**  
Journal Name : Chinese Physics B  
Volume : 21( 7)  
Year : 2012  
Pages : 097651

(3)

Title : On exponential stability of neutral delay differential system with nonlinear uncertainties delays  
Author : **Syed Ali, M.,**  
Journal Name : Communications in Nonlinear Science and Numerical Simulation  
Volume : 17  
Year : 2012  
Pages : 2595-2601

(4)

Title : Global asymptotic stability of stochastic fuzzy recurrent neural networks with mixed time-varying delays  
Author : **Syed Ali, M.,**  
Journal Name : Chinese Physics B  
Volume : 20(8)  
Year : 2011  
Pages : 080201

(5)

Title : Stability analysis of Takagi-Sugeno cellular neural networks with multiple discrete and distributed time varying delays  
Author : P. Balasubramaniam, M. **Syed Ali**  
Journal Name : Communications in Nonlinear Science and Numerical Simulation  
Volume : 16(7)  
Year : 2011  
Pages : 2907-2916

(6)

Title : Stability analysis of Takagi-Sugeno stochastic fuzzy Hopfield neural networks with discrete and distributed time varying delays  
Author : P. Balasubramaniam, M. **Syed Ali**  
Journal Name : Neurocomputing  
Volume : 74(10)  
Year : 2011  
Pages : 1520 -1526

(7)

Title : Global asymptotic stability of stochastic Discrete – time neural networks with time-varying delays  
Author : **Syed Ali, M.**, Marudai. M.  
Journal Name : Mathematical and Computer Modelling  
Volume : 54  
Year : 2011  
Pages : 1979 - 1988

(8)

Title : Stability analysis of Takagi – Sugeno fuzzy Cohen – Grossberg BAM neural networks with discrete and distributed time varying delays  
Author : Balasubramaniam. P, **Syed Ali, M.**,  
Journal Name : Mathematical and Computer Modeling  
Volume : 53  
Year : 2011  
Pages : 151- 160

(9)

Title : Global asymptotic stability of stochastic fuzzy cellular neural networks with multiple time-varying delays  
Author : Balasubramaniam. P, **M. Syed Ali**, S. Arik  
Journal Name : Expert Systems with Applications  
Volume : 37  
Year : 2010  
Pages : 7737 -7744

(10)

Title : Robust stability of uncertain fuzzy cellular neural networks with time varying delays and reaction diffusion terms  
Author : Balasubramaniam. P, **M. Syed Ali**,  
Journal Name : Neurocomputing  
Volume : 74  
Year : 2010  
Pages : 439-446

**(11)**

Title : Robust exponential stability of uncertain fuzzy Cohen-Grossberg neural networks with time-varying delays  
Author : Balasubramaniam. P, **M. Syed Ali**,  
Journal Name : Fuzzy Sets and Systems  
Volume : 161  
Year : 2010  
Pages : 608- 618

**(12)**

Title : Exponential Stability of time delay differential Systems  
Author : **Syed Ali, M.**, Balasubramaniam. P,  
Journal Name : International Journal of computer Mathematics  
Volume : 87  
Year : 2010  
Pages : 1363 – 1373

**(13)**

Title : Global exponential stability of uncertain fuzzy BAM neural networks with time-varying delays  
Author : **Syed Ali, M.**, Balasubramaniam. P,  
Journal Name : Chaos, Solitons and Fractals  
Volume : 42  
Year : 2009  
Pages : 2191 -2199

**(14)**

Title : Robust stability of uncertain fuzzy Cohen-Grossberg BAM neural networks with time-varying delays  
Author : **Syed Ali, M., P. Balasubramaniam**  
Journal Name : Expert Systems with Applications  
Volume : 36  
Year : 2009  
Pages : 10583-10588

**(15)**

Title : Faedo-Galerkin approximate solutions for stochastic semilinear integrodifferential equations  
Author : Balasubramaniam, P., **Syed Ali, M.**, Kim, J.H.  
Journal Name : Computers and Mathematics with Applications  
Volume : 58  
Year : 2009  
Pages : 48-57

**(16)**

Title : Stability analysis of uncertain fuzzy Hopfield neural networks with time delays  
Author : **Syed Ali, M.**, Balasubramaniam, P.  
Journal Name : Communications in Nonlinear Science and Numerical Simulation  
Volume : 14  
Year : 2009  
Pages : 2776-2783

(17)  
Title : Exponential stability of uncertain stochastic fuzzy BAM neural networks with time-varying delays  
Author : **Syed Ali, M.**, Balasubramaniam, P.  
Journal Name : Neurocomputing  
Volume : 72  
Year : 2009  
Pages : 1347-1354

(18)  
Title : Robust stability results for uncertain stochastic neural networks with discrete interval and distributed time-varying delays  
Author : **Syed Ali, M.**, Balasubramaniam, P.  
Journal Name : Physics Letters A  
Volume : 372  
Year : 2008  
Pages : 5159 -5166

(19)  
Title : Stochastic stability of uncertain fuzzy recurrent neural networks with Markovian jumping parameters  
Author : Balasubramaniam. P, **Syed Ali, M.**,  
Journal Name : International Journal of Computers Mathematics  
Volume : 88(5)  
Year : 2011  
Pages : 892-904

(20)  
Title : Stability of fuzzyHopfield neural networks with discrete and distributed time varying delays  
Author : **Syed Ali, M.**, Balasubramaniam. P  
Journal Name : Proceedings of the IEEE Interntaional Joint Conference on Neural Networks'09  
Volume : 1  
Year : 2009  
Pages : 500- 508

(21)  
Title : Approximate Solutions to Stochastic evolution integro differential equations  
Author : **Syed Ali, M.**, P. Balasubramaniam  
Journal Name : Mathematics Computing and Modelling, Narosa Publishers, India  
Volume : 1  
Year : 2007  
Pages : 289- 298

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