

STAFF PROFILE



Name : Dr.U.Karthik Raja

Designation : Assistant Professor of Mathematics

Date of Entry into Service : 16.06.2017

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Education : M.Sc., M.Phil., P.hD.,

Areas of specialization : Neural Networks, Systems, Differential Equations,
Fractional Differential Equations.

Seminars / Extension Organized

Title of the Seminar/Conference/Workshop	Date	Sponsoring Agency	National/State/International	Co-ordinator/Convener
Science Academies' Lecture Workshop on "Mathematical Modeling"	10 &11 February 2017	INSc, NASc, IASc	National	Dr.U.Karthik Raja
Science Academies' Lecture Workshop on "Differential Equations and Dynamical Systems"	05 &06 February 2018	INSc, NASc, IASc	National	Dr.U.Karthik Raja
Extension Activity Programme	January 09 2017	UGC	Govt Hr Sec School,Maniyanji Madurai	
Extension Activity Programme	October 08 2018	UGC	Govt Hr Sec School,Mullipallam Madurai	

Seminars, Workshop and Conferences Attended

Title of the Seminar/Conference/Workshop	Date	Sponsoring Agency	National/State/International	Organization in which
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				attended
Science Academies' Lecture Workshop on "Mathematical Analysis"	March 05-07 2018	INSc, NAsC, IASc	National	Sri Vasavi College, Erode
One day Orientation Programme on "Digital Learning and Innovative Instructional Strategies"	February 13 2018	Madrura	National	IQAC, Madura College
One day workshop on "World Mental Health"	October 10 2017	American College	National	American College
Faculty Recharge Programme	December 14 2016	Madura	National	Madura College
Science Academies' Lecture Workshop on "Differential Equations"	December 12-13 2016	INSc, NAsC, IASc	National	Sri Vasavi College, Erode
Nanaterials and Nanotechnology	December 7-10 2015	WCU NST KSR Institute	International	KSRCT
Faculty Development Programme on Research Methodology in Mathematics	November 27 2015	KSR CAS	National	IQAC KSRCAS
One day compact course on Mathematical Introduction to Fluid Dynamics	April 2 2015	KSR College	National	KSR College Of Arts and Science
Shodhganga and Anti-Plagiarism Software	March 27 2015	Periyar University	National	Periyar University
Three day Workshop for college mathematics teachers Enriching Collegiate Education (ECE 2015)	March 11-13 2015	The Institute of Mathematical Sciences	National	The Institute of Mathematical Sciences
Science Academies National Lecture Workshop on "Applicable Mathematics"	12- 14 February 2015	INSc, NASi, IASc	National	KSR College of Arts and Science
National Conference on "Mathematical Sciences and Applications" (NCMSA-2013)	14, 15 March 2013	Department of Mathematics, Karunya University	National	Karunya University
National Conference on "Advances in Differential Equations and Applications" (NCADEA-2012)	29, 30 March 2012	NBHM, DST & CSIR,	National	Periyar University
Research in Engineering and technology-Recent Trends	9, 10 November 2010	Coimbatore institute of Engineering and	National	Coimbatore institute of Engineering and

		Technology, Coimbatore		Technology, Coimbatore
Opportunities of Government Funded R&D Projects for Academic Institutions	30, 31 October 2009	Anna University Of Technology, Coimbatore	National	Anna University Of Technology, Coimbatore
One day Workshop on “Mathematical Modeling”	March 31, 2008	UGC-DSA and DST- First Supported Department	National	School of Mathematics, Madurai Kamaraj University
One day Workshop on “Geometry and its Applications”	8 September 2006	School of Mathematics, Madurai Kamaraj University	National	School of Mathematics, Madurai Kamaraj University

Research Publications:

Title of the Journal	ISSN No. if any	Volume No. & Page No. if any	Year	International/ National/State
New stability criterion of neural networks with leakage delays and impulses: A piecewise delay method, “Cognitive Neurodynamics”	1871-4080	Vol. 10, No. 1	2016	International
Passivity analysis for uncertain discrete-time stochastic BAM neural networks with multiple time varying delays, “ <i>Neural Computing and Applications</i> ”	0941-0643	Vol.25, Iss:3-4	2015	International
Dynamic analysis of discrete time BAM neural networks with stochastic perturbations and impulses, “ <i>International Journal of Machine Learning and Cybernetics</i> ”	ISSN 1868-8071	Vol.5, Iss.1 pp.39-50	2014	International
Improved stochastic dissipativity analysis of uncertain discrete-time neural networks with multiple delays and impulses”, <i>International “Journal of Machine Learning and Cybernetics”</i>	1868-8071	Vol.6, Iss:2	2013	International
Dissipativity of discrete time	ISSN 0016-0032	vol.350,	2013	International

BAM stochastic neural networks with Markovian switching and impulses, “ <i>Journal of The Franklin Institute</i> ”		iss.10, pp.3217-3247		
Exponential stability for stochastic delayed recurrent neural networks with mixed time-varying delays and impulses:the continuous-time case”, <i>Physica Scripta</i> ”	doi:10.1088/0031-8949/87/05/055802	vol.87, Article ID 055802, 11 pages	2013	International
Design of a robust controller on stabilization of stochastic neural networks with time varying delays, “ <i>Physica Scripta</i> ”	doi:10.1088/0031-8949/85/03/035003	vol. 85, Article ID 035003, 10 pages	2012	International

Research Activities

Degree	No. Awarded	No. Submitted	No. Guiding
M.Phil.,	4		1
Ph.D.,(Part-time)	3		
Ph.D. (Full-time)			

Details of Invited Lecture / Resource Person

Place	Date	Sponsoring Agency	Topic	Audience type	International/National/State Level
Mother Teresa Women’s University	March 15 2017	Mother Teresa Women’s University	MATLAB-Theory & Practical	Faculties, Scholars, Students	National

Details of Orientation and Refresher attended

Orientation/Refresher	University/College/Institute at which attended	Duration	
Orientation Programme	Bharathiar University	From May 17 2018	To June 06 2018

Any Other Information :

- Approved Research Guide in MKU
- Life member in The Indian Society for Technical Education