


Faculty Profile

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Department	MATHEMATICS			
Qualifications	M.Sc, Ph.D			
Area of Specialization	Stability Analysis of Neural Networks			
Date of Joining (VCET)	03.08.2016			
Date of Birth	10.06.1985			
Experience in (Years)	Teaching	5	Industry	2.5
Number of Papers Published	National Journals	-	International Journals	14
Number of Papers Presented	National Conferences	-	International Conferences	Nil
Books Published	Nil			
Patents	Granted	Nil	Published	Nil
Grants Received:	Nil			
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Publication details:

- S. Senthilraj**, T. Saravanakumar, R. Raja, J. Alzabut, Delay-dependent passivity analysis of non-deterministic genetic regulatory networks with leakage and distributed delays against impulsive perturbations, *Advances in Difference Equations* 353 (2021) 469 (**SPRINGER**).
- S. Senthilraj**, R. Raja, J. Cao, H. M. Fardoun, Dissipativity analysis of stochastic fuzzy neural networks with randomly occurring uncertainties using delay dividing approach, *Nonlinear Analysis: Modelling and Control* 24(2019) 561-581 (**SCI**).
- S. Senthilraj**, R. Raja, R. Samidurai, J. Cao, X. Li, Passivity analysis of uncertain stochastic neural networks with leakage and distributed delays under impulsive perturbations, *Kybernetika* 54 (2018) 3-29 (**SCI**).
- S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, Improved results on delay-dependent H_∞ control for uncertain systems with time-varying delays, *Circuits, Systems and Signal Processing* 36 (2017) 1836-1859 (**SPRINGER**).

5. **S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, Stability analysis of uncertain neutral systems with discrete and distributed time-delays via the delay partition approach, *International Journal of Control, Automation and Systems* 15(5) (2017) 2149-2160. (**SPRINGER**).
6. **S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, 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*, 354 (2017) 3574-3593. (**ELSEVIER**).
7. **S. Senthilraj**, R. Raja, F. Jiang, Q. Zhu, R. Samidurai, New delay-interval-dependent stability analysis of neutral type BAM neural networks with successive time delay components, *Neurocomputing* 171 (2016) 1265-1280 (**ELSEVIER**).
8. **S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, Z. Yao, Exponential passivity analysis of stochastic neural networks with leakage, distributed delays and Markovian jumping parameters, *Neurocomputing* 175 (2016) 401-410 (**ELSEVIER**).
9. **S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, Z. Yao, New delay-interval-dependent stability criteria for static neural networks with time-varying delays, *Neurocomputing* 186 (2016) 1-7 (**ELSEVIER**).
10. **S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, 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 (2016) 262-275 (**ELSEVIER**).
11. **S. Senthilraj**, R. Raja, Q. Zhu, R. Samidurai, H. Zhou, Delay-dependent asymptotic stability criteria for genetic regulatory networks with impulsive perturbations, *Neurocomputing* 214 (2016) 981-990 (**ELSEVIER**).
12. Raja, Q. Zhu, **S. Senthilraj**, R. Samidurai, Improved stability analysis of uncertain neutral type neural networks with leakage delays and impulsive effects, *Applied Mathematics and Computation* 266 (2015) 1050-1069 (**ELSEVIER**).
13. **S. Senthilraj**, R. Raja, R. Samidurai, A note on delay dependent stability analysis of uncertain neutral Systems with nonlinear perturbations, *Asian Journal of Mathematics and Computer Research* 7(3) (2015) 245-258 (**Scopus**).
14. R. Raja, **S. Senthilraj**, R. Samidurai, H_∞ control for fuzzy neutral systems with mixed delays using delay partition approach, *Asian Journal of Mathematics and Computer Research* 3(1) (2015) 1-18 (**Scopus**).

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