

Faculty Profile of Dr. R. Sakthivel



Dr. R. Sakthivel

Professor

Department of Applied Mathematics

Email:krsakthivel@buc.edu.in

Phone No:0422 2428622

Mobile No:+91 8870199957

Research Area

- Systems and Control Theory
- Differential and Integral Equations
- Fractional Differential Equations
- Numerical Methods for PDEs

Education & Career

Education

Ph.D.

Subject : Mathematics

Institution : Bharathiar University, Coimbatore

Affiliated University : Bharathiar University

Year of Award : 1999

M.Phil.

Subject : Mathematics

Institution : Bharathiar University, Coimbatore

Affiliated University : Bharathiar University

Year of Award : 1996

M.Sc.

Subject: Mathematics

Institution : Nallamuthu Gounder Mahalingam College

Affiliated University : Bharathiar University

Year of Award : 1994

B.Sc.

Subject: Mathematics

Institution : Nallamuthu Gounder Mahalingam College

Affiliated University : Bharathiar University

Year of Award : 1992

Career**At Bharathiar University (Reverse Order)**

Professor (Applied Mathematics): September 2018 to Till Date

Professor (Mathematics): November 2016 to August 2018

Past Experience

Professor : September 2013 to July 2016 at Sri Ramakrishna Institute of Technology, Coimbatore

Associate Professor : March 2012 to August 2013 at Sungkyunkwan University, South Korea

Assistant Professor : March 2008 to February 2012 at Sungkyunkwan University, South Korea

Brainpool- Fellow : April 2006 to February 2008 at Pohang University of Science & Technology, South Korea

Research Professor : July 2005 to February 2006 at Yonsei University, South

Korea

JSPS-Post Doctoral Researcher : April 2003 to April 2005 at Kyushu Institute of Technology, Japan

Post-Doctoral Researcher : October 2001 to December 2002 at Inha University, Incheon, South Korea

Lecturer : June 2000 to August 2001 at Sri Krishna College of Engineering and Technology, India

Senior Research Fellow (CSIR- SRF) : August 1997 to November 1999 at Bharathiar University, India

Awards

Travel awards

Sl. No. : 1

Funding agency : International Mathematical Union

Name of conference : International Congress of Mathematicians (ICM 2018)

Country : Brazil

Paper presented (Oral/Poster) : Poster

Title of paper : Output tracking control for fractional-order switched systems

Dates : August 1-9, 2018

Sl. No. : 2

Funding agency : International Mathematical Union

Name of conference : International Congress of Mathematicians (ICM 2002)

Country : China

Paper presented (Oral/Poster) : Oral

Title of paper : Controllability of nonlinear systems in Banach spaces

Dates : August 20-28 2002

Academic awards

Sl.No. : 1

Awarding agency : Clarivate Analytics, United States

Country : USA

Purpose of award : Highly Cited Researcher

Year of Award : 2017, 2018, 2019, 2020

Sl.No. : 2

Awarding agency : The Academy of Sciences

Country : India

Purpose of award : Fellow of the Academy of Science

Year of Award : 2019

Sl.No. : 3

Awarding agency : Japan Society for the Promotion of Science (JSPS)

Country : Japan

Purpose of award : Post Doctoral Research

Year of Award : 2003-2005

Sl.No. : 4

Awarding agency : Korea Research Foundation (Brain Pool)

Country : South Korea

Purpose of award : Post Doctoral Research

Year of Award : 2006-2008

Sl.No. : 5

Awarding agency : Council of Scientific and Industrial Research (CSIR)

Country : India

Purpose of award : Senior Research Fellow

Year of Award : 1997 -2000

Membership

Membership in Professional Bodies

Sl. No. : 1

Organization : Indian Society for Industrial and Applied Mathematics, India

Type of Membership : Life Time Member

Period : Since 2016

Membership in Academic Bodies

Sl. No. : 1

Organization : Department of Mathematics, Bharathiar University

Type of Membership : Member of the Board of studies

Period : 2018-2020

Sl. No. : 2

Organization : Dr.SNS Rajalakshmi College of Arts & Science, Coimbatore

Type of Membership : Result Passing Board

Period : 2017-2019

Sl. No. : 3

Organization : Nirmala College for Women, Coimbatore

Type of Membership : Result passing Board

Period : 2018-2019

Sl. No. : 4

Organization : Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore

Type of Membership : Member of the Board of studies

Period : 2018-2020

Sl. No. : 5

Organization : Journal of the Franklin Institute

Type of Membership : Associate Editor

Period : 2017 – till date

Sl. No. : 6

Organization : IEEE Access

Type of Membership : Associate Editor

Period : 2017 – till date

Sl. No. : 7

Organization : Neurocomputing

Type of Membership : Associate Editor

Period : 2016 – till date

Sl. No. : 8

Organization : Advances in Difference Equations

Type of Membership : Associate Editor

Period : 2018 – till date

Sl. No. : 9

Organization : Journal of Electrical Engineering and Technology

Type of Membership : Associate Editor

Period : 2018 – till date

Sl. No. : 10
Organization : Neural Processing Letters
Type of Membership : Associate Editor
Period : 2020 – till date

Visits

Sl. No. : 1
Countries Visits : Saudi Arabia
Duration of Visit : 7 days
Month and Year : December 2019
Purpose of Visit : International Workshop- Invited Talk

Sl. No. : 2
Countries Visits : China
Duration of Visit : 6 days
Month and Year : October 2019
Purpose of Visit : Visiting Professor

Sl. No. : 3
Countries Visits : Malaysia
Duration of Visit : 2 days
Month and Year : October 2019
Purpose of Visit : Invited Talk

Sl. No. : 4
Countries Visits : South Korea
Duration of Visit : 1 month
Month and Year : June 2019
Purpose of Visit : Visiting Professor

Sl. No. : 5
Countries Visits : Saudi Arabia
Duration of Visit : 7 days
Month and Year : May 2019
Purpose of Visit : Visiting Professor

Sl. No. : 6
Countries Visits : China

Duration of Visit : 5 days
Month and Year : May 2019
Purpose of Visit : Visiting Professor

Sl. No. : 7
Countries Visits : China
Duration of Visit : 8 days
Month and Year : December 2018
Purpose of Visit : Visiting Professor

Sl. No. : 8
Countries Visits : South Korea
Duration of Visit : 8 days
Month and Year : November 2018
Purpose of Visit : Visiting Professor

Sl. No. : 9
Countries Visits : Brazil
Duration of Visit : 12 days
Month and Year : August 2018
Purpose of Visit : International Conference-- Paper presentation

Sl. No. : 10
Countries Visits : South Korea
Duration of Visit : 2 months
Month and Year : May & June 2018
Purpose of Visit : Visiting Professor

Sl. No. : 11
Countries Visits : China
Duration of Visit : 7 days
Month and Year : December 2017
Purpose of Visit : Visiting Professor

Sl. No. : 12
Countries Visits : South Korea
Duration of Visit : 1 month
Month and Year : May –June 2017
Purpose of Visit : Visiting Professor

Sl. No. : 13

Countries Visits : South Korea

Duration of Visit : 3 months

Month and Year : May, August & September 2016

Purpose of Visit : Visiting Professor

Sl. No. : 14

Countries Visits : South Korea

Duration of Visit : 3 months

Month and Year : February - April 2015

Purpose of Visit : Visiting Professor

Sl. No. : 15

Countries Visits : South Korea

Duration of Visit : 2 months

Month and Year : May & December 2015

Purpose of Visit : Visiting Professor

Sl. No. : 16

Countries Visits : South Korea

Duration of Visit : 1 month

Month and Year : December 2014

Purpose of Visit : Visiting Professor

Sl. No. : 17

Countries Visits : South Korea

Duration of Visit : 4 months

Month and Year : March - June 2014

Purpose of Visit : Visiting Professor

Sl. No. : 18

Countries Visits : China

Duration of Visit : 6 Days

Month and Year : June 2014

Purpose of Visit : Visiting Professor

Sl. No. : 19

Countries Visits : China

Duration of Visit : 8 Days

Month and Year : December 2013

Purpose of Visit : Visiting Professor

Sl. No. : 20

Countries Visits : China

Duration of Visit : 7 days

Month and Year : December 2010

Purpose of Visit : Visiting Professor

Sl. No. : 21

Countries Visits : Australia

Duration of Visit : 6 Days

Month and Year : December 2005

Purpose of Visit : International Conference- Paper presentation

Sl. No. : 22

Countries Visits : South Korea

Duration of Visit : 5 years and 6 months

Month and Year : March 2008- August 2013

Purpose of Visit : Assistant & Associate Professor

Sl. No. : 23

Countries Visits : South Korea

Duration of Visit :

Month and Year : December 2009

Purpose of Visit : Invited Talk

Sl. No. : 24

Countries Visits : South Korea

Duration of Visit : 1 year 10 months

Month and Year : April 2006-Feb 2008

Purpose of Visit : (Brainpool) Post doctoral researcher

Sl. No. : 25

Countries Visits : South Korea

Duration of Visit : 7 months

Month and Year : July 2005-Feb 2006

Purpose of Visit : Research Professor

Sl. No. : 26

Countries Visits : Australia

Duration of Visit : 4 days
Month and Year : December 2005
Purpose of Visit : International Conference – Paper presentation

Sl. No. : 27
Countries Visits : Germany
Duration of Visit : 5 days
Month and Year : September 2004
Purpose of Visit : International Conference – Paper presentation

Sl. No. : 28
Countries Visits : South Korea
Duration of Visit : 6 days
Month and Year : August 2004
Purpose of Visit : International Conference – Paper presentation

Sl. No. : 29
Countries Visits : South Korea
Duration of Visit : 3 days
Month and Year : October 2003
Purpose of Visit : International Workshop- Invited Talk

Sl. No. : 30
Countries Visits : Japan
Duration of Visit : 2 Years
Month and Year : April 2003 – April 2005
Purpose of Visit : JSPS Postdoctoral researcher

Sl. No. : 31
Countries Visits : Germany
Duration of Visit : 8 Days
Month and Year : September 2002
Purpose of Visit : Invited talk

Sl. No. : 32
Countries Visits : China
Duration of Visit : 10 days
Month and Year : August 2002
Purpose of Visit : International Conference – Paper presentation

Sl. No. : 33

Countries Visits : South Korea

Duration of Visit : 1 year 5 months

Month and Year : October 2001- January 2002

Purpose of Visit : Post doctoral Researcher

Sl. No. : 34

Countries Visits : South Korea

Duration of Visit : 7 days

Month and Year : September 2000

Purpose of Visit : International Conference- Paper presentation

Collaborators

Others

Projects

Funded Projects (National Level)

- [Ongoing](#)
- [Completed](#)

1. DST- SERB-CRG

Disturbance rejection and tracking control design for periodic piecewise time-varying, systems,

R. Sakthivel (PI)

DST- SERB-CRG

2021-2024

Rs. 20,29,610

2. TANSCHER-GP

Reliable non-fragile control for networked control systems with quantization

R. Sakthivel (PI)

TANSCHÉ-RGP

2021-2024

Rs. 3,99,250

1. NRF- South Korea

Stability and controllability of nonlinear stochastic equations,

R. Sakthivel (PI)

NRF- South Korea

2010-2013

Rs. 75,00,000

2. NBHM-DAE, India

Stabilization of uncertain dynamical systems by robust reliable control,

R. Sakthivel (PI)

NBHM-DAE, India

2014-2017

Rs. 9,67,500

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Ongoing Consultancy Project Informations

Completed Consultancy Project Informations

Research Guidance

- [PDF](#)
-

Ongoing

Name of the candidate : R. Manikandan

Year: 2021- till date

- [Ph.D](#)

-

Ongoing

Sl. No. : 1

Name of the candidate : S. Priyanka

Title of the Thesis : Ongoing

Year : 2018- till date

Sl. No. : 2

Name of the candidate : S. Sweetha

Title of the Thesis : Ongoing

Year : 2018- till date

Sl. No. : 3

Name of the candidate : N. Birundha Devi

Title of the Thesis : Ongoing

Year : 2019- till date

Sl. No. : 4

Name of the candidate : T. Satheesh

Title of the Thesis : Ongoing

Year : 2019- till date

Sl. No. : 5

Name of the candidate : S. Monisha

Title of the Thesis : Ongoing

Year : 2020- till date

Sl. No. : 6

Name of the candidate : V. Panneerselvam

Title of the Thesis : Ongoing

Year : 2021- till date

Sl. No. : 7

Name of the candidate : R. Abinandhitha

Title of the Thesis : Ongoing

Year : 2021- till date

Sl. No. : 8

Name of the candidate : S. Anusuya

Title of the Thesis : Ongoing

Year : 2021- till date

Sl. No. : 9

Name of the candidate : N. Aravinth

Title of the Thesis : Ongoing

Year : 2021- till date

Completed

Sl. No. : 1

Name of the candidate : S. Selvi

Title of the Thesis : Robust reliable control of dynamical systems with time delay

Year : 2013 -2015

Sl. No. : 2

Name of the candidate : P. Revathi

Title of the Thesis : Studies on existence of solutions for nonlinear stochastic evolution equations

Year : 2013-2015

Sl. No. : 3

Name of the candidate : K. Muralitharan

Title of the Thesis : Demand side management in smart grid using artificial intelligence techniques

Year : 2014- 2016

Sl. No. : 4

Name of the candidate : M. Rathika

Title of the Thesis : Studies on stability and stabilization of control systems with time delay

Year : 2015-2017

Sl. No. : 5

Name of the candidate : B. Kaviarasan

Title of the Thesis : Studies on consensus analysis of multi-agent systems with time-varying delay

Year : 2015- 2018

Sl. No. : 6

Name of the candidate : V. Nithya

Title of the Thesis : Studies on robust filter design for networked control systems

Year : 2017- 2019

Sl. No. : 7

Name of the candidate : S. Harshavarthini

Title of the Thesis : Studies on disturbance rejection and robust tracking control design for dynamical systems

Year : 2017- 2021

Sl. No. : 8

Name of the candidate : H. Divya

Title of the Thesis : Studies on robust control design for Markovian jump systems with time-delays

Year : 2017- 2021

Sl. No. : 9

Name of the candidate : V. T. Suveetha

Title of the Thesis : Studies on finite-time filter design for discrete-time dynamical systems

Year : 2018- 2021

Ongoing:

Completed:

- [M.Phil.](#)
-

Ongoing

Sl. No. : 1

Name of the candidate : V.T. Elayabharath

Title of the Thesis : Ongoing

Year : 2021-till date

Sl. No. : 2

Name of the candidate : P. Ramya

Title of the Thesis : Ongoing

Year : 2021-till date

Sl. No. : 3

Name of the candidate : P. Sozhaeswari

Title of the Thesis : Ongoing

Year : 2021-till date

Completed

Sl. No. : 1

Name of the candidate : V. Thilagamani

Title of the Thesis : Finite-time resilient reliable intermittent control design for chaotic systems

Year : 2017-2018

Sl. No. : 2

Name of the candidate : T. Santhiya

Title of the Thesis : Finite-time stabilization of uncertain systems via nonlinear fault-tolerant control

Year : 2017-2018

Sl. No. : 3

Name of the candidate : K. Pavithra

Title of the Thesis : Finite-time extended dissipative based robust control design for nonlinear systems

Year : 2017-2018

Sl. No. : 4

Name of the candidate : R. Amsaveni

Title of the Thesis : Non-fragile control design for consensus of stochastic semi-Markovian jumping multi-agent systems with probabilistic delay

Year : 2018-2019

Sl. No. : 5

Name of the candidate : S. Manickavalli

Title of the Thesis : Observer-based bipartite consensus for uncertain Markovian jumping multi-agent systems with actuator saturation

Year : 2018-2019

Sl. No. : 6

Name of the candidate : R. S. Shanmugapriya

Title of the Thesis : Non-fragile control design for consensus of semi-Markov jumping multi-agent systems with disturbances

Year : 2018-2019

Sl. No. : 7

Name of the candidate : R. Abinandhitha

Title of the Thesis : Anti-disturbance observer-based finite-time reliable control design for fuzzy switched systems

Year : 2019-2021

Sl. No. : 8

Name of the candidate : S. Anusuya

Title of the Thesis : Dynamic output feedback-based tracking control design with input time-varying delay for fuzzy systems

Year : 2019-2021

Sl. No. : 9

Name of the candidate : N. Aravinth

Title of the Thesis : Synchronization of hierarchical hybrid coupled neural networks

Year : 2019-2021

Sl. No. : 10

Name of the candidate : N. Shobana

Title of the Thesis : State observer-based predictive proportional integral tracking control design for Takagi-Sugeno fuzzy systems

Year : 2021-2022

- [M.Sc](#)
-

Ongoing

Accordion content 1.

Completed

Sl. No. : 1

Name of the candidate : S. Harshavarthini

Title of the Dissertation : Stabilization of neutral systems with actuator saturation via nonlinear reliable control

Year : 2015-2017

Sl. No. : 2

Name of the candidate : V. Thilagamani

Title of the Dissertation : Existence and uniqueness of solutions of nonlocal fractional differential equations

Year : 2015-2017

Sl. No. : 3

Name of the candidate : G. Renuga

Title of the Dissertation : Existence and uniqueness of solutions for an IVP of fractional order differential equations

Year : 2015-2017

Sl. No. : 4

Name of the candidate : H. Divya

Title of the Dissertation : Existence results for Caputo fractional Integro differential equations

Year : 2015-2017

Sl. No. : 5

Name of the candidate : S.R. Aravindh

Title of the Dissertation : Existence of solutions for nonlinear coupled fractional differential equations

Year : 2016-2018

Sl. No. : 6

Name of the candidate : G. Manopriya

Title of the Dissertation : Existence and uniqueness of solutions for a coupled

system with integral boundary conditions

Year : 2016-2018

Sl. No. : 7

Name of the candidate : S. Priyanka

Title of the Dissertation : Dynamic output-feedback control design for networked control systems

Year : 2016-2018

Sl. No. : 8

Name of the candidate : C.A. Suruthi Sri

Title of the Dissertation : Finite-time stabilization of uncertain nonlinear time-delay system

Year : 2016-2018

Sl. No. : 9

Name of the candidate : M. Selladurai

Title of the Dissertation : Fractional-order boundary value problems with nonlocal conditions and Riemann - Liouville integral boundary conditions

Year : 2016-2018

Sl. No. : 10

Name of the candidate : R. S. Shivasivapriyaa

Title of the Dissertation : Stability analysis for fractional-order neural networks with mixed time-delays based on LMI approach

Year : 2016-2018

Sl. No. : 11

Name of the candidate : R. S. Shanmugapriya

Title of the Dissertation : Finite-time stabilization for a class of switched systems with time-varying delay

Year : 2016-2018

Sl. No. : 12

Name of the candidate : R. Amsaveni

Title of the Dissertation : Existence result for fractional Integro-Differential equations with coupled boundary conditions

Year : 2016-2018

Sl. No. : 13

Name of the candidate : S. Venkateshwari

Title of the Dissertation : Existence of solutions of Caputo type sequential fractional differential equations

Year : 2016-2018

Sl. No. : 14

Name of the candidate : K. Indhumathi

Title of the Dissertation : Existence result for fractional differential equations

Year : 2016-2018

Sl. No. : 15

Name of the candidate : P. Vasudevan

Title of the Dissertation : Existence and uniqueness of coupled fractional differential equations

Year : 2016-2018

Sl. No. : 16

Name of the candidate : A. Joshua Anand

Title of the Dissertation : On a coupled system of fractional differential equations with coupled nonlocal and integral boundary conditions

Year : 2016-2018

Sl. No. : 17

Name of the candidate : T. Satheesh

Title of the Dissertation : Observer-based H^∞ control design for uncertain nonlinear networked control systems with random packet losses

Year : 2017-2019

Sl. No. : 18

Name of the candidate : A. Priyanka

Title of the Dissertation : Existence and uniqueness of solutions for multi-term fractional differential equations with boundary conditions

Year : 2017-2019

Sl. No. : 19

Name of the candidate : S. Subashree

Title of the Dissertation : Existence and uniqueness of solutions for sequential fractional Integro-Differential equations and inclusions with

nonlocal boundary conditions

Year : 2017-2019

Sl. No. : 20

Name of the candidate : S. Nannila Selvi

Title of the Dissertation : Existence and uniqueness of solutions for nonlinear fractional differential equations with nonlocal integral boundary conditions

Year : 2017-2019

Sl. No. : 21

Name of the candidate : T. Saideepika

Title of the Dissertation : Existence and uniqueness of solutions for Caputo-Hadamard sequential fractional order neutral differential equations

Year : 2017-2019

Sl. No. : 22

Name of the candidate : Anargha Sivadas

Title of the Dissertation : Existence and uniqueness of solutions for fractional differential equations with fractional integral boundary condition

Year : 2018-2020

Sl. No. : 23

Name of the candidate : S. Anitha

Title of the Dissertation : Existence and uniqueness of solutions for hadamard fractional differential equations with hadamard type boundary conditions

Year : 2018-2020

Sl. No. : 24

Name of the candidate : K. Dhanushmathy

Title of the Dissertation : Existence result for nonlinear neutral liouville-caputo-type fractional differential equations

Year : 2018-2020

Sl. No. : 25

Name of the candidate : A. Lukeshwari

Title of the Dissertation : Boundary value problem for fractional differential equations via banach fixed point theory

Year : 2018-2020

Sl. No. : 26

Name of the candidate : B. Ranjani

Title of the Dissertation : Existence and uniqueness of solutions for coupled hybrid fractional differential equations with dirichlet boundary conditions

Year : 2018-2020

Sl. No. : 27

Name of the candidate : M.M. Boojitha

Title of the Dissertation : Existence and uniqueness results for coupled system of Caputo type fractional integro differential equations with boundary conditions

Year : 2019-2021

Sl. No. : 28

Name of the candidate : Y. Dorthy jenifer

Title of the Dissertation : Existence and uniqueness solution of coupled system of Hadamard fractional differential equations with nonlocal conditions

Year : 2019-2021

Sl. No. : 29

Name of the candidate : N.P. Karthika

Title of the Dissertation : Existence and uniqueness of solutions for coupled fractional differential equations and inclusions

Year : 2019-2021

Sl. No. : 30

Name of the candidate : M. Moganapriya

Title of the Dissertation : Existence and uniqueness of solutions for system of Hilfer-Hadamard sequential fractional differential equations

Year : 2019-2021

Sl. No. : 31

Name of the candidate : M. Priyanka

Title of the Dissertation : Nonlinear integro-differential equations with fractional derivatives and nonlocal boundary data

Year : 2019-2021

Sl. No. : 32

Name of the candidate : P. Suryaprabha

Title of the Dissertation : Existence results for nonlocal multi-point and multi-term fractional order boundary value problems

Year : 2019-2021

Sl. No. : 33

Name of the candidate : K. Swathi lakshmi

Title of the Dissertation : Stability and stabilization of fractional order non-linear systems with time delay

Year : 2019-2021

Sl. No. : 34

Name of the candidate : K. Aishwarya

Title of the Dissertation : Existence of solutions for hybrid Hilfer fractional implicit differential equations

Year : 2020-2022

Sl. No. : 35

Name of the candidate : S. Bharathi

Title of the Dissertation : Existence and uniqueness of solutions for coupled non-separated system of Hadamard-type fractional differential equations

Year : 2020-2022

Sl. No. : 36

Name of the candidate : S. Ganasri

Title of the Dissertation : Existence and uniqueness of mild solutions for nonlinear Hilfer fractional differential equations with boundary conditions

Year : 2020-2022

Sl. No. : 37

Name of the candidate : G. Lokeshwaran

Title of the Dissertation : Existence and uniqueness results for coupled nonlinear sequential fractional differential equations

Year : 2020-2022

Sl. No. : 38

Name of the candidate : M. Sukirtha

Title of the Dissertation : ∞ sampled-data control for uncertain parabolic PDE

systems with semi-Markov switching

Year : 2020-2022

Sl. No. : 39

Name of the candidate : S. Susanna rani

Title of the Dissertation : Existence and uniqueness of solutions for nonlinear fractional integro-differential equations with integral boundary conditions

Year : 2020-2022

Ongoing:

Completed:

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books / Chapters](#)
- [Database](#)

2023

481. Analysis of diffusive size-structured population model and optimal birth control,

M. Kumar, S. Abbas and R. Sakthivel,

Evolution Equations and Control Theory, 12, 423-445, (2023).

<https://doi.org/10.3934/eect.2022036>

480. Dissipative constraint-based control design for singular semi-Markovian jump systems using state decomposition approach,

B. Kaviarasan, O.M. Kwon, M.J. Park and R. Sakthivel,

Nonlinear Analysis: Hybrid Systems, 47, 101302, (2023).

<https://doi.org/10.1016/j.nahs.2022.101302>

479. Disturbance rejection and robust tracking control design for turbofan systems,

R. Sakthivel, S. Priyanka, O.M. Kwon, S. Mohanapriya and M.J. Park,

Applied Mathematical Modelling, 113, 1-12, (2023).

<https://doi.org/10.1016/j.apm.2022.08.018>

2022

478. Analysis of nonlinear fractional diffusion equations with a Riemann-liouville derivative,

T.B. Ngoc, N. H. Tuan, R. Sakthivel and Donal O'Regan,

Evolution Equations & Control Theory, 11, 439-455 (2022).

<https://doi.org/10.3934/eect.2021007>

477. Optimal deep learning control for modernized microgrids,

S.R. Yan, W. Guo, A. Mohammadzadeh and R. Sakthivel,

Applied Intelligence, 1-18 (2022).

<https://doi.org/10.1007/s10489-022-04298-2>

476. Event-Triggered Finite-Time Dissipative Filtering for Interval Type-2 Fuzzy Complex Dynamical Networks With Cyber Attacks,

R. Sakthivel, O.M. Kwon, M.J. Park and R. Sakthivel,

IEEE Transactions on Systems, Man, and Cybernetics: Systems, 1-12 (2022).

<https://doi.org/10.1109/TSMC.2022.3221641>

475. Resilient finite-time fault detection dissipative-based filter for semi-Markovian jump systems with incomplete measurements,

R Sakthivel, V Nithya and V.T. Suveetha,

International Journal of Adaptive Control and Signal Processing 36, 1216-1230 (2022).

<https://doi.org/10.1002/acs.3398>

474. A predictive type-3 fuzzy control for underactuated surface vehicles, A. Taghieh, C. Zhang K. A. Alattas, Y. Bouteraa S. Rathinasamy and A. Mohammadzadeh,

Ocean Engineering, 266, 113014, (2022).

<https://doi.org/10.1016/j.oceaneng.2022.113014>

473. Non-linear control design for optimized power regulations in spar wind turbines under wind and wave loads,

R. Manikandan, R. Sakthivel and M. Chadli,

Ocean Engineering, 266, 112916, (2022).

<https://doi.org/10.1016/j.oceaneng.2022.112916>

472. Time-dependent neural networks with activation functions violating the standard Lipschitz condition,

N. E. Tatar and R. Sakthivel,

Mathematical Methods in the Applied Sciences, 45, 11659-11666, (2022).

<https://doi.org/10.1002/mma.8472>

471. Tracking control design for periodic piecewise polynomial systems with multiple disturbances,

R. Sakthivel, N. Aravinth and O.M. Kwon,

International Journal of Robust and Nonlinear Control, (2022).

<https://doi.org/10.1002/rnc.6316>

470. Composite disturbance rejection and tracking control design for fuzzy model based systems with cyber attacks,

R. Sakthivel, S. Anusuya, S. Harshavarthini and O. M. Kwon,

Journal of the Franklin Institute, (2022).

<https://doi.org/10.1016/j.jfranklin.2022.10.057>

469. Anti-disturbance observer-based control for fuzzy chaotic semi-Markov jump systems with multiple disturbances and mixed actuator failures,

R. Abinandhitha, R. Sakthivel, N. Tatar and R. Manikandan,

Chaos, Solitons and Fractals, 164, 112679, (2022).

<https://doi.org/10.1016/j.chaos.2022.112679>

468. Resilient Control-Based Fault Estimation for Networked Control Systems with Jumping Parameters and Deception Attacks,
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