




Bharathiar University

State University | "A⁺⁺" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p>Prof R SAKTHIVEL Professor and Head Department of Applied Mathematics Bharathiar University Coimbatore, 641046 Tamil Nadu E-mail: krsakthivel@buc.edu.in Phone: 8870199957 Office Number: 0422 2428622</p>	
<p>Research Area</p> <ul style="list-style-type: none"> • Systems and Control Theory • Diifferential Equations • Robust Control • Fault-tolerant Control • Stability and Stabilization • Robust Control • Fault-tolerant Control • Stability and Stabilization 	<p>Courses Teaching</p> <ul style="list-style-type: none"> • Ordinary Differential Equations • Control Theory
<p>Research Experience: 25</p>	<p>Teaching Experience: 23</p>
<p>Research Credentials (as on August 2024 – Source: Google scholar) H-index: 17489 Citations: 65 i10-index: 372</p>	
<p>Publications International Journals: 564 Books/Chapters: 31 Conferences: 10 National Journals: 3</p>	
<p>Career</p> <p>At Bharathiar University</p> <ol style="list-style-type: none"> 1. Designation : Professor Period : September 2018 - Till Date 2. Designation : Professor Period : November 2016 - August 2018 3. Designation : Professor and Head Period : July 2024 - Till Date <p>Other Institutes</p> <ol style="list-style-type: none"> 1. Designation : Professor Institution Name : Department of Mathematics, Sri Ramakrishna Institute of Technology, India Period : September 2013 - July 2016 2. Designation : Post Doctoral Fellow Institution Name : Department of Mathematics, Inha University, Inchon, South Korea Period : October 2001 - February 2003 3. Designation : Associate Professor Institution Name : Department of Mathematics, Sungkyunkwan University, South Korea Period : March 2012 - August 2013 4. Designation : Assistant Professor Institution Name : Department of Mathematics, Sungkyunkwan University, South Korea Period : March 2008 - February 2012 	



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Prof R SAKTHIVEL , Professor and Head , Department of Applied Mathematics

5. Designation : Lecturer

Institution Name : Department of Mathematics & Computer Applications, Sri Krishna College of Engineering and Technology, India
Period : June 2000 - August 2001

6. Designation : Research Associate

Institution Name : Department of Mathematics, Yonsei University, South Korea
Period : July 2005 - February 2006

7. Designation : Post Doctoral Fellow

Institution Name : Department of Mechanical Engineering, Pohang University of Science & Technology, South Korea
Period : April 2006 - February 2008

8. Designation : Post Doctoral Fellow

Institution Name : Department of Systems Innovation and Informatics (Formerly- Department of Control Engineering and Science) Kyushu Institute of Technology, Japan
Period : April 2008 - April 2009

Education

Ph. D.

Subject : Mathematics
Institution : Bharathiar University, Coimbatore
Affiliated University : Bharathiar University
Year of Award : December 1999

M. Phil.

Subject : Mathematics
Institution : Bharathiar University, Coimbatore
Affiliated University : Bharathiar University
Year of Award : October 1996

M. Sc.

Subject : Mathematics
Institution : Nallamuthu Gounder Mahalingam College
Affiliated University : Bharathiar University
Year of Award : May 1994

B. Sc.

Subject : Mathematics
Institution : Nallamuthu Gounder Mahalingam College
Affiliated University : Bharathiar University
Year of Award : May 1992

Projects

National Level

Ongoing - completed - 4

Research Guidance

Completed

Ph.D. - 19 M.Phil. - 16

On Going

Ph.D. - 6

Institutional Responsibilities

Head of the Department

Period : Jul 2024 to Till date

Nature of Responsibility :



Programs organized

1. Organizing Secretary (2023-03-30 - 2023-03-31)
2. Organizing Secretary (2023-02-20 -)
3. Organizing Secretary (2019-12-05 - 2019-12-07)
4. Organizing Secretary (2020-08-17 - 2020-08-21)
5. Convener (2017-03-15 - 2017-03-16)

Visits

1. Visiting Professor - 2013-12-01)
2. Visiting Professor (2010-12-31 - 2010-12-01)
3. Visiting Professor (2014-06-30 - 2014-06-01)
4. Visiting Professor (2014-06-01 - 2014-03-01)
5. Visiting Professor (2014-12-31 - 2014-12-01)
6. Visiting Professor (2015-04-01 - 2015-02-01)
7. Visiting Professor (2015-06-30 - 2015-06-01)
8. Visiting Professor (2015-12-31 - 2015-12-01)
9. Visiting Professor (2016-05-31 - 2016-05-01)
10. Visiting Professor (2016-08-31 - 2016-08-01)
11. Visiting Professor (2016-09-30 - 2016-09-01)
12. Visiting Professor (2015-06-30 - 2015-06-01)
13. Visiting Professor (2015-12-31 - 2015-12-01)
14. Visiting Professor (2017-05-31 - 2017-05-01)
15. Visiting Professor (2017-12-31 - 2017-12-01)
16. Visiting Professor (2018-05-01 - 2018-06-01)
17. Visiting Professor (2018-12-31 - 2018-12-01)
18. Visiting Professor (2019-05-01 - 2019-05-08)
19. Visiting Professor (2025-03-23 - 2025-03-15)
20. Visiting Professor (2024-09-27 - 2024-09-25)
21. Visiting Professor (2024-06-01 - 2024-05-01)
22. Visiting Professor - 2023-12-01)
23. Visiting Professor (2023-10-01 - 2023-09-30)
24. Visiting Professor - 2024-05-01)
25. Visiting Professor - 2022-12-01)
26. Invited talk (2009-12-29 - 2009-12-21)
27. Invited talk - 2019-10-01)
28. Invited talk - 2019-10-15)



Publications

International Journals - 564

564. Security-oriented sliding mode control design for interconnected PDE systems with input delay: A finite-time extended dissipative approach

Communications in Nonlinear Science and Numerical Simulation, Vol 150 & Page 109041 (November 2025)
M.R. Kumar, V.T. Elayabharath, R. Sakthivel and V. Panneerselvam

563. Improved intermediate estimator-based security control for networked periodic piecewise stochastic systems with attacks and additive delays

Chaos, Solitons & Fractals, Vol 198 & Page 116476 (September 2025)
T. Satheesh, N. Aravinth, R. Sakthivel and O.M. Kwon

562. Design of attack resistant robust control based on intermediate estimator approach for offshore steel jacket structures

Journal of Dynamic Systems, Measurement, and Control, Vol 147 & Page 051003 (September 2025)
R. Vanitha, T. Satheesh, R. Sakthivel and V.T. Elayabharath

561. Anti-disturbance reliable memory feedback tracking control for unmanned aerial vehicle systems

International Journal of General Systems, Vol 54 & Page 825-843 (August 2025)
S. Priyanka, R. Sakthivel, N. Birundh Devi and S. Mohanapriya

560. T3-ANFIS: Type-3 adaptive neuro-fuzzy inference system with a noniterative learning algorithm

IEEE Transactions on Cybernetics (August 2025)
A. Mohammadzadeh, K.A. Alattas, W.F. Xie, H. Taghavifar, C. Zhang and R. Sakthivel

559. A type-3 fuzzy logic system with uncertainty bound type-reduction and optimized secondary memberships an

International Journal of Fuzzy Systems (August 2025)
A. Mohammadzadeh, M.T. Vu, H. Taghavifar, K.A. Alattas, R. Sakthivel and C. Zhang

558. Superposed nonlinear waves and transitions in a (3+ 1)-dimensional variable-coefficient eight-order nonintegrable Kac–Wakimoto equation

Chaos, Solitons & Fractals, Vol 185 & Page 115057 (August 2025)
S. Singh, K. Sakkaravarthi, K. Manikandan and R. Sakthivel

557. Adaptive event-triggered dissipative filtering for interval type-2 fuzzy semi-Markov jump systems with quantization and sensor failures

ISA Transactions, Vol 163 & Page 39-50 (August 2025)
R. Kavikumar, O.M. Kwon, Y. Hu and R. Sakthivel

556. Disturbance estimator-oriented secured tracking control design for uncertain periodic piecewise polynomial time-varying systems with DoS attacks

European Journal of Control, Vol 85 & Page 101357 (August 2025)
N. Aravinth, R. Sakthivel, V. Panneerselvam and O.M. Kwon

555. Finite-time-based dissipative state estimation for discrete-time conic-type nonlinear systems with packet dropouts under round robin protocol

International Journal of Robust and Nonlinear Control, Vol 35 & Page 4701-4711 (July 2025)
R. Sakthivel, O.M. Kwon, M.J. Park and R. Sakthivel

554. Composite fault reconstruction and tracking control model for interval type-2 fuzzy-based cyber-physical systems: The sliding mode observer method

Asian Journal of Control, Vol 27 & Page 1627-1638 (July 2025)
S. Anusuya, R. Sakthivel, Y. Ren and F. Kong

553. Design of extended dissipative-based composite anti-disturbance reliable tracking control for stochastic Takagi–Sugeno fuzzy systems

International Journal of General Systems, Vol 54 & Page 602-628 (July 2025)
S. Priyanka, R. Sakthivel, S. Mohanapriya and G. Ran



552. Synchronisation of complex nonlinear dynamical networks with coupling delays via dual hybrid-triggered control design

International Journal of Systems Science, Vol 56 & Page 2014-2032 (July 2025)
N.B. Devi, R. Sakthivel, S. Mohanapriya and M. Vijayakumar

551. A type-3 fuzzy vibration controller based on active rotary inertia driver systems

Journal of Sound and Vibration, Vol 607 & Page 119072 (July 2025)
C. Zhang, C. Du, R. Sakthivel and A. Mohammadzadeh

550. Finite-time secured non-fragile control design for engine throttle valve system with multiple attacks under proportional integral observer

International Journal of Robust and Nonlinear Control, Vol 35 & Page 4201-4211 (July 2025)
T. Satheesh, M. Kayalvizhi, R. Sakthivel and P. Sozhaeswari

549. Fixed-time synchronization of hybrid impulsive complex networks via improved stability analysis

Nonlinear Dynamics (July 2025)
Q. Wang, A. Abdurahman, R. Tohti, H. Jiang and R. Sakthivel

548. Disturbance suppression-based secured resilient control design for delayed Korteweg-De Vries-Burgers equation with hybrid cyber attacks

Mathematical Methods in the Applied Sciences (July 2025)
P. Karthika, N. Aravinth and R. Sakthivel

547. Improved dynamic output feedback control for TS fuzzy systems against hybrid cyber-attacks via neural network method

Chaos, Solitons & Fractals, Vol 195 & Page 116235 (June 2025)
H. Zhang, Z. Chen, H. Sun and R. Sakthivel

546. Event-triggered based composite observer-oriented quantized truncated predictive tracking control for Markovian jump delay systems

Communications in Nonlinear Science and Numerical Simulation, Vol 145 & Page 108727 (June 2025)
N. Shobana, A. Mohammadzadeh, N. Wongvanich and R. Sakthivel

545. Prediction-based distributed state estimation control for IoT-enabled train positioning systems

IEEE Access, Vol 13 & Page 101922-101933 (June 2025)
L. Ponnarasi, P.B. Pankajavalli, Y. Lim, R. Sakthivel, S. Alfarhood and M. Safran

544. Security-infused finite-time bipartite synchronisation of switched reaction-diffusion neural networks under resilient observer

International Journal of Systems Science (June 2025)
V.T. Elayabharath, T. Satheesh, R. Sakthivel and Y. Ren

543. Secured state estimation-based tracking control design for periodic piecewise polynomial systems with deception attacks over a finite-horizon

International Journal of Robust and Nonlinear Control (June 2025)
N. Aravinth, R. Sakthivel, T. Satheesh and M.G. Hafez

542. Observer-based type-3 fuzzy control for gyroscopes: Experimental/theoretical study

Information Sciences, Vol 702 & Page 121907 (June 2025)
C. Zhang, C. Du, R. Sakthivel and A. Mohammadzadeh.

541. Design of robust tracking and disturbance attenuation control for vehicle lateral systems: A modified equivalent input disturbance approach

International Journal of Adaptive Control and Signal Processing, Vol 39 & Page 1036-1047 (May 2025)
S. Mohanapriya, A. Dhavasumani, C. Antony Crispin Sweetey, T. Satheesh and R. Sakthivel

540. Input-output finite-time robust stabilisation of distributed parameter cyber-physical systems with deception attacks

International Journal of Systems Science, Vol 56 & Page 1518-1539 (May 2025)
V. Panneerselvam, L. Hari Priya, N. Nithyadevi and R. Sakthivel



539. Robust modified repetitive tracking control design for singular Markovian jump fuzzy systems with probabilistic input delay

International Journal of Adaptive Control and Signal Processing, Vol 39 & Page 676-691 (April 2025)

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

538. Design of attack resistant robust fuzzy control of chaotic semi-Markov jump stochastic systems with multiple cyber attacks

International Journal of General Systems (April 2025)

R. Abinandhitha, T. Satheesh, R. Sakthivel and Y. Ren

537. Results on oscillatory properties of third-order functional difference equations with semi-canonical operators

Mathematica Slovaca, Vol 75 & Page 353-368 (April 2025)

E. Chandrasekaran, G.E. Chatzarakis, R. Sakthivel and E. Thandapani

536. Particle swarm optimization based linear quadratic gaussian semi active control algorithm for space framed structure using Magneto-Rheological Damper

Journal of Vibration Engineering & Technologies, Vol 13 & Page 262 (April 2025)

P. Chaudhuri, R. Manikandan and R. Sakthivel

535. H₂ filtering for discrete-time singular nonhomogeneous Markovian jump systems with time-varying delays

Asian Journal of Control (March 2025)

W. Chen, F. Gao, R. Sakthivel and G. Zhuang

534. Unified modifiable parameter-based fault reconstruction and fault-tolerant tracking control for uncertain periodic piecewise polynomial systems

International Journal of Systems Science (March 2025)

N. Aravinth, T. Satheesh, Y. Ren and R. Sakthivel

533. Periodicity and fixed-time stabilization of discontinuous neural networks with mixed delays: unbounded delay-dependent criteria

Acta Mathematica Scientia, Vol 45 & Page 1188-1204 (March 2025)

Z. Wang, L. Sun, F. Kong and R. Sakthivel

532. Numerical modelling and backstepping-based control of barge platform-supported offshore wind turbines under wind and wave loads

Ships and Offshore Structures (March 2025)

R. Manikandan, P. Chaudhuri and R. Sakthivel

531. New results on interval type-3 fuzzy control for nonlinear time-delay systems using convex relaxation technique

IEEE Transactions on Systems, Man, and Cybernetics: Systems, Vol 55 & Page 3630 - 3641 (March 2025)

B. Harikaran, S. Harshavarthini, S. Lee, R. Sakthivel and T. Sathiyaraj

530. Dissipative constraint-based multi-area power system with time-varying delays and cyber-attacks

ISA Transactions, Vol 158 & Page 315-327 (March 2025)

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

529. Observer-reliant event-triggered security control design for stochastic third-order PDE systems with multiple attacks

European Journal of Control, Vol 82 & Page 101186 (March 2025)

N. Shukla, N. Keerthana, R. Sakthivel, V.T. Elayabharath and J. Dabas

528. Design of dynamic hybrid-triggered dissipative resilient control for parabolic PDE cyber-physical switched systems with attacks

Communications in Nonlinear Science and Numerical Simulation, Vol 142 & Page 108584 (March 2025)

P. Karthika, P. Sozhaeswari, A. Mohammadzadeh and R. Sakthivel



527. Secure fault estimation and resilient fault-tolerant control for nonlinear chaotic systems based on fuzzy intermediate estimator

Chaos, Solitons & Fractals, Vol 192 & Page 115954 (March 2025)
N. Keerthana, V.T. Elayabharath, R. Sakthivel and S. Monisha

526. Resilient observer-based unified state and fault estimation for nonlinear parabolic PDE systems via fuzzy approach over finite-time interval

Applied Mathematics and Computation, Vol 488 & Page 129125 (March 2025)
V.T. Elayabharath, P. Sozhaeswari, N. Tatar, R. Sakthivel and T. Satheesh

525. Disturbance attenuation for neutral descriptor semi-Markovian jump systems with saturation nonlinearity and time delays

Asian Journal of Control, Vol 27 & Page 1075-1086 (March 2025)
S. Mohanapriya, S. Lee, C.S.A.C. Sweety and R. Sakthivel

524. Predictor-based anti-disturbance tracking control for non-linear input time-delay control systems

International Journal of Systems Science (February 2025)
N. Shobana, P. Chaudhuri, S. Priyanka and R. Sakthivel

523. Active disturbance rejection hybrid-triggered control for mode-dependent nonlinear PDE systems under resilient disturbance observer

International Journal of Systems Science, Vol 56 & Page 2866-2888 (February 2025)
P. Sozhaeswari, V.T. Elayabharath, T. Satheesh and R. Sakthivel

522. Quantized repetitive tracking control for Markovian jump nonlinear systems with disturbances and incomplete knowledge of transition rates

Journal of the Franklin Institute, Vol 362 & Page 107518 (February 2025)
N. Shobana, R. Sakthivel, P. Shi and S. Mohanapriya

521. Optimization algorithm-based fault-tolerant resilient control for helicopter system: The finite-time case

Journal of Computational and Nonlinear Dynamics, Vol 20 & Page 021007 (February 2025)
T. Satheesh, T.M. Anisha, R. Sakthivel, V.T. Elayabharath and Y. Ren

520. Fault estimation for semi-Markov jump cyber-physical control systems with external disturbances

International Journal of Adaptive Control and Signal Processing, Vol 39 & Page 277-291 (February 2025)
V. Panneerselvam, R. Sakthivel, N. Aravinth and O.M. Kwon

519. Dissipative constraint-based saturation control for fuzzy Markov jump systems within a finite-time interval

International Journal of Fuzzy Systems, Vol 27 & Page 77-92 (February 2025)
R. Kavikumar, B. Kaviarasan, O.M. Kwon and R. Sakthivel

518. Design of fault-tolerant non-fragile control for parabolic PDE systems with semi-Markov jump: the finite-time case

International Journal of Systems Science, Vol 56 & Page 2606-2623 (January 2025)
P. Sozhaeswari, R. Sakthivel, M. Chadli and R. Abinandhitha

517. Security-based control design for synchronization of switched reaction diffusion neural networks with hybrid attacks

Communications in Nonlinear Science and Numerical Simulation, Vol 140 & Page 108441 (January 2025)
V.T. Elayabharath, T. Satheesh, P. Sozhaeswari, R. Sakthivel and Y. Ren

516. Modified Smith predictor-based robust tracking control design for fractional-order singular semi-Markovian jump systems

Journal of the Franklin Institute, Vol 362 & Page 107382 (January 2025)
R. Vanitha, T. Satheesh, S. Mohanapriya, C. Antony Crispin Sweety and R. Sakthivel



515. Truncated predictive control for delayed cyber–physical systems under deception attacks

Journal of the Franklin Institute, Vol 362 & Page 107361 (January 2025)
S. Anusuya, R. Sakthivel, A. Mohammadzadeh and O.M. Kwon

514. Reliable finite-time control for nonlinear chaotic semi-Markov jump systems with incomplete transition rates

International Journal of Adaptive Control and Signal Processing, Vol 39 & Page 56-73 (January 2025)
R. Abinandhitha, R. Sakthivel, N. Tatar and Y. Ren

513. Finite-time resilient control for uncertain periodic piecewise polynomial time-varying systems

Transactions of the Institute of Measurement and Control, Vol 47 & Page 331-341 (January 2025)
V. Thilagamani, R. Sakthivel, T. Satheesh, A. Mohammadzadeh and R. Sasirekha

512. Design of functional estimation-based controller for the stabilization of time-delayed systems

The European Physical Journal Special Topics, 1-12 (December 2024)
D. Gomathi, S. Harshavarthini, T. Sathiyaraj, B. Harikaran and R. Sakthivel

511. Hybrid control design for nonlinear chaotic semi-Markov jump systems via fault alarm approach

Chaos, Solitons & Fractals 189, 115663 (December 2024)
R. Sakthivel, R. Abinandhitha, T. Satheesh and O.M. Kwon

510. Secure State Estimation-Based Stabilization of IoT-Enabled Wireless Power Transfer Systems

IEEE Transactions on Circuits and Systems I: Regular Papers Vol 72 & Page 443 - 452 (November 2024)
L. Ponnarasi, P.B. Pankajavalli, Y. Lim and R. Sakthivel

509. Distributed state estimation-based resilient controller design for IoT-enabled microgrids under deception attacks

Applied Energy, Vol 374 & Page 123997 (November 2024)
L. Ponnarasi, P.B. Pankajavalli, Y. Lim and R. Sakthivel

508. Fault reconstruction?based robust tracking control design for periodic piecewise polynomial systems with disturbances

International Journal of Robust and Nonlinear Control, Vol 34 & Pages 11124-11146 (November 2024)
N. Aravinth, R. Sakthivel, T. Satheesh and O.M. Kwon

507. Finite-Time Resilient Filtering for Discrete-Time TS Fuzzy Networked Control Systems with Switching Communication Channels under Cyber Attacks

IEEE Transactions on Fuzzy Systems, Vol 33 & Pages 857 - 868 (November 2024)
R. Sakthivel, O.M. Kwon, M.J. Park and R. Sakthivel

506. Input–Output Finite-Time Bipartite Synchronization for Multiweighted Complex Dynamical Networks Under Dynamic Hybrid Triggering Mechanism

Journal of Computational and Nonlinear Dynamics, Vol 19 & Pages 111004 (November 2024)
N. Birundha Devi, R. Sakthivel, S. Priyanka and O.M. Kwon

505. Observer-oriented quantized tracking control design for parabolic non-linear uncertain PDE systems with dissipative constraints

Communications in Nonlinear Science and Numerical Simulation, Vol 138 & Page 108201 (November 2024)
V. Elakkiya, N. Shobana, O.M. Kwon and R. Sakthivel

504. Stabilization of delayed semi-Markov jump neural networks with actuator faults: A quantized hybrid control approach

Nonlinear Analysis: Hybrid Systems, Vol 54 & Page 101509 (November 2024)
N. Aravinth, R. Sakthivel, A. Mohammadzadeh and S. Saat

503. Observer-based leader-following cluster consensus for positive multi-agent systems with input time-varying delay

International Journal of Systems Science, Vol 55 & Pages 3017-3031 (October 2024)
R. Sakthivel, A. Parivallal, O.M. Kwon and S. Manickavalli



502. Mode-dependent observer-based secured hybrid-driven reliable control for semi-Markov jump cyber-physical systems with DoS attacks

Chaos, Solitons & Fractals, Vol 187 & Page 115387 (October 2024)
V. Panneerselvam, N. Aravinth, R. Sakthivel and M.G. Hafez

501. Propagation of dust-ion acoustic shocks in unmagnetized four species dusty plasmas having double index generalized distributed electrons

Brazilian Journal of Physics, Vol 54 & Page 181 (October 2024)
P. Akter, M.G. Hafez and R. Sakthivel

500. Hybrid-triggered Proportional-Integral tracking control for fuzzy model based networked control systems against disturbance and actuator fault

Engineering Applications of Artificial Intelligence, Vol 136 & Page 108900 (October 2024)
N. Shobana, R. Sakthivel, S. Mohanapriya and O.M. Kwon

499. Synchronization for Industrial Internet of Things using Resilient Fault-tolerant Control Design

IEEE Access, Vol 12 & Pages 138816 - 138826 (September 2024)
S. Priyanka, N. Shobana, S. Alfarhood, P.B. Pankajavalli, R. Sakthivel and M. Safran

498. Hybrid-driven based reliable control for uncertain semi-Markov jump cyber-physical systems via two-sided looped-functional

Journal of the Franklin Institute , Vol 361 & Page 106999 (September 2024)
V. Panneerselvam, N. Aravinth, T. Satheesh and R. Sakthivel

497. Event-triggered synchronization control for fractional-order IT2 fuzzy multi-weighted complex dynamical networks with deception attacks

Communications in Nonlinear Science and Numerical Simulation, Vol 136 & Page 108091 (September 2024)
R. Sakthivel, O.M. Kwon, M.J. Park and R. Sakthivel

496. Event-triggered synchronization control for fractional-order IT2 fuzzy multi-weighted complex dynamical networks with deception attacks

Communications in Nonlinear Science and Numerical Simulation, Vol 136 & Page 108091 (September 2024)
R. Sakthivel, O.M. Kwon, M.J. Park and R. Sakthivel

495. Disturbance estimation-based resilient control design for interval type-2 fuzzy stochastic systems under multiple disturbance observer

International Journal of General Systems, Vol 53 & Pages 678-706 (August 2024)
S. Aarthi, T. Satheesh, R. Sakthivel and S. Marshal Anthoni

494. Disturbance rejection and tracking control design for nonlinear semi-Markovian jump systems

Information Sciences, Vol 677 & Page 120841 (August 2024)
S. Harshavarthini, R. Sakthivel, R. Abinandhitha and O.M. Kwon

493. Disturbance rejections of polynomial fuzzy systems under equivalent-input-disturbance estimator approach

Fuzzy Sets and Systems, Vol 488 & Page 109013 (July 2024)
P. Selvaraj, O.M. Kwon, S.H. Lee and R. Sakthivel

492. Dynamic feedback H[∞] control for discrete singular systems with time-varying delays

International Journal of General Systems, Vol 53 & Pages 544-563 (July 2024)
W. Chen, R. Sakthivel, F. Gao, F. Kong and G. Zhuang

491. Nonlinear propagation of ion-acoustic waves along with their bifurcation analysis in a negative ion plasma in the presence of quartic nonlinearity

Physics of Fluids, Vol 36 & Page 077170 (July 2024)
M.G. Hafez, P. Akter, K. Chettri, R. Sakthivel and A. Saha



490. Composite resilient reliable control for nonlinear chaotic semi-Markov jump fuzzy systems with multi-source disturbances

Engineering Applications of Artificial Intelligence, Vol 133 & Page 108121 (July 2024)
R. Abinandhitha, R. Sakthivel, S. Anandhi & O.M. Kwon

489. Observer-based hybrid triggered control design for cluster synchronization of nonlinear complex dynamical networks

International Journal of Adaptive Control and Signal Processing, Vol 38 & Page 1956-1974 (June 2024)
N.B. Devi, R. Sakthivel, M. Vijayakumar and A. Mohammadzadeh

488. Anti-windup scheme-based control for fractional-order systems subject to actuator and sensor saturation

International Journal of General Systems, Vol 53 & Pages 485-508 (May 2024)
R. Sakthivel, S. Sweetha, S. Mohanapriya and C. Antony Crispin Sweety

487. Modified equivalent input disturbance estimator-based active disturbance rejection for fractional-order TS fuzzy stochastic systems

Chaos, Solitons & Fractals, Vol 182 & Page 114840 (May 2024)
S. Mohanapriya, C.A.C. Sweety, T. Satheesh, R. Sakthivel & O.M. Kwon

486. Quantized Proportional-Integral Tracking Control for Two-Stage Chemical Reactor Systems

Journal of Computational and Nonlinear Dynamics, Vol 19 & Pages 051006 (May 2024)
R. Sakthivel, S. Priyanka, N. Shobana and S. Mohanapriya

485. Unified finite-time fault estimation and fault-tolerant control for Takagi-Sugeno fuzzy singular systems

International Journal of Adaptive Control and Signal Processing, Vol 38 & Page 1812-1828 (May 2024)
N. Keerthana, R. Sakthivel, N. Aravinth and S. Marshal Anthoni

484. Event-triggered position scheduling based platooning control design for automated vehicles

IEEE Transactions on Intelligent Vehicles, Vol 9 (April 2024)
P. Selvaraj, R. Sakthivel, O.M. Kwon and R. Sakthivel

483. Disturbance rejection-based non-fragile hybrid-triggered control design for repeated scalar nonlinear systems

International Journal of Systems Science Vol 55 & Page 1005-1020 (April 2024)
M.A. Safana, R. Sakthivel, N.B. Devi and S.M. Anthoni

482. Tracking control design for cyber-physical systems with disturbances and input delays: An interval type-2 fuzzy approach

International Journal of Adaptive Control and Signal Processing, Vol 38 & Page 1327-1346 (April 2024)
R. Sakthivel, S. Anusuya, F. Kong & W. Chen

481. Event-triggered control design with varying gains for polynomial fuzzy systems against DoS attacks

Mathematics and Computers in Simulation, Vol 218 & Page 1-14 (April 2024)
P. Selvaraj, O.M. Kwon, S.H. Lee, R. Sakthivel and S.M. Lee

480. Unified synchronization and fault-tolerant anti-disturbance control for synchronization of multiple memristor-based neural networks

International Journal of Robust and Nonlinear Control, Vol 34 & Page 2849-2864 (March 2024)
T. Satheesh, R. Sakthivel, N. Aravinth and H.R. Karimi

479. Hybrid-triggered-based fault-tolerant dissipative control for TS fuzzy parabolic PDE systems with external disturbances and deception attacks

Communications in Nonlinear Science and Numerical Simulation, Vol 130 & Page 107702 (March 2024)
P. Sozhaeswari, R. Sakthivel, R. Abinandhitha and P. Ramya

478. Propagation of collisional among multi-soliton, multi-singular soliton and rogue wave around the critical values in an unmagnetized plasma

Physica Scripta, Vol 99 & Page 035256 (February 2024)
S. Akter, M.G. Hafez and R. Sakthivel



477. Design of anti-disturbance reliable control for fuzzy networked control systems with multiple disturbances

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