National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile: 1-2 paragraphs (not exceeding 500 words)

K. Srinivasan was born in Sivaganga, India, in 1977. He received the Bachelor's degree in Electronics and Instrumentation from the Shanmugha College of Engineering, Bharathidasan University, Tiruchirappalli, India, in 1998, and the M.E. degree (Hons.) in Instrumentation engineering and the Ph.D. degree from MIT, Anna University, Chennai, India, in 2002 and 2009, respectively. He qualified in GATE 2000 and awarded GATE fellowship during the master's degree program. He is currently an Associate Professor with the Department of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli. He has authored or coauthored more than 50 scientific research articles including conference proceedings. His current research interests include next-generation controller, network control systems, control on cyber physical systems, applying the control system concept in electronics, and instrumentation domain. Dr. K. Srinivasan is a member of the Institution of Engineers, ISA and IEEE, a Life Member of ISTE, and one of the founding members of the Automatic Control and Dynamic Optimization Society (ACDOS). He received the research training in NUS, Singapore, under the TEQIP Fellowship in 2007, the Young Scientist Project Grant in 2010, the International Conference Travel Grant in 2013 from DST, GOI, and the Young Faculty Research Fellow (YFRF) of MeiTY, GOI, in 2017. He received Distinguished alumni award in 2021 from MIT, Chennai for PG category. He has been a Reviewer of many technical journals, such as IEEE Transactions, ISA Transactions, IET Control Theory and Applications and IET signal processing.

1. Name: K. SRINIVASAN
2. Designation: Associate Professor
3. Office Address   Dept. of Instrumentation and Control Engineering, National Institute of Technology, Tiruchirappalli, Trichy, Tamil Nadu.
4. Telephone (Direct) (Optional):
   Telephone :   0431 250 3363
   Extn (Optional):   3363
   Mobile (Optional):   9443661591
5. Email (Primary): srinikkn@nitt.edu   Email (Secondary) :
6. Field(s) of Specialization: Instrumentation and Control

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	National Institute of Technology, Tiruchirappalli	12-03-2018	Present
Assistant Professor	National Institute of Technology, Tiruchirappalli	03-05-2006	11-03-2018
Senior Lecturer	Sairam College of Engineering	13-03-2005	02-05-2006
Lecturer	SSN College of Engineering	03-12-2003	10-06-2005

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph. D.	MIT, Anna University Chennai	2009	--	Design and Implementation of Nonlinear Control Schemes on The Simulated model of CSTR and pH Process
M.E.	MIT, Anna University Chennai	2002	1st class with Distinction	Instrumentation
B.E.	Shanmugha College of Engg. (SASTRA DU)	1998	1st class	Electronics and Instrumentation

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Warden	NITT hostel	02-07-2008	17-10-2011
Associate Dean (R&C)	NITT	10-10-2012	09-10-2015
Co-Ordinator	Siemens Centre of Excellence-Automation Lab	28-05-2018	17-09-2021
Staff advisor	Festember	11-09-2008	30-09-2008

Staff advisor, ICEA chapter	Sensor 2007	01-08-2006	31-03-2007
Staff advisor, ICEA chapter	Sensor 2008	01-08-2007	31-03-2008
Member of STF for CECASE	NITT	17-03-2018	13-09-2021
Member	Siemens Center of Excellence (CoE) - PCI Lab	28-05-2018	13-09-2021
Fifteenth convocation committee member	NITT	01-07-2019	30-07-2019
Board of studies member	NITT	01-07-2007	02-11-2017
Staff advisor	Festember, NITT	21-09-2009	27-09-2009
Member of STF for CECASE	NITT	12-10-2011	04-11-2017
TEQIP department in-charge	NITT	01-01-2014	03-07-2017
NBA committee member	NITT	01-10-2013	31-12-2013
NBA committee member	NITT	02-02-2016	05-10-2016
Alumni day organizing committee member	NITT	01-01-2007	30-04-2007
Seventh convocation committee member	NITT	05-07-2011	30-09-2011
Annual sports day committee member	NITT	01-03-2010	30-03-2010
Cricket meet organizing committee member	NITT	06-11-2008	16-12-2008
Fourth convocation organizing committee member	NITT	01-07-2008	09-09-2008
IMEC-2014 committee member	NITT	01-05-2014	16-06-2014
Stock verification committee member	NITT	17-06-2013	19-11-2013
Fifth convocation committee member	NITT	06-07-2009	24-08-2009
Member – crisis contribution	NITT	23-07-2011	24-07-2011
Alumni day faculty in-charge	NITT	01-06-2018	30-05-2019

Process control lab in-charge	ICE, NITT	17-03-2018	13-09-2021
Industrial automation lab in-charge	ICE, NITT	17-03-2018	13-09-2021
Process control lab in-charge	ICE, NITT	01-01-2007	07-11-2017
Industrial automation lab in-charge	ICE, NITT	04-11-2013	04-11-2013
CC chairperson, seventh semester	ICE, NITT	18-07-2017	07-11-2017
CC chairperson, fifth semester ice	ICE, NITT	09-07-2013	31-12-2013
CC chairperson, pg first semester ICE	ICE, NITT	02-07-2007	31-12-2007
CC chairperson, eight semester ICE	ICE, NITT	01-04-2016	30-06-2016
CC chairperson, fifth semster ICE	ICE, NITT	07-07-2014	07-07-2014
CC chairperson, sixth semester ICE	ICE, NITT	05-09-2009	29-06-2009
CC chairperson, fourth semester	ICE, NITT	02-01-2012	29-06-2012
PG project co-ordinator	ICE, NITT	06-07-2015	31-05-2016
UG project co-ordinator	ICE, NITT	01-01-2013	15-05-2013
MS/Ph.D admission process committee member	NITT	03-04-2013	11-11-2017
MS/Ph.D admission process committee member	NITT	01-12-2020	28-02-2021
CC chairperson, PG first semester	NITT	09-07-2012	09-07-2012
Guest lecture coordinator	NITT	21-03-2016	21-03-2016

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
BOS Member (EIE)	College of Engineering and Technology, SRM Institute of		29-6-2022

	Science and Technology, Katankulathu		
Anna University Syllabus Sub Committee Member (UG-EIE/ICE)	Anna University Chennai (Affiliated institutes)		24-6-2022
Anna University Syllabus Sub Committee Member	Anna University Chennai		2-08-2021
External Examiner of B.E. Final Year Project Viva Voce Examiner	MIT, Anna University Chennai		2021
PhD Thesis Examiner	SAP, Anna University, Chennai		2020
DC Member Of Oral Examination Board Member	Anna University		2019
Research Committee Panel Member	Kalasalingam ARE, Virudhunagar		2019
Resource Person	Mahendra Engineering College, Namakkal	24-07-2019	2019
Bode of Studies Member (ICE-UG/PG)	Kalasalingam ARE, Virudhunagar		4-6-2018
Bode of Studies Member (EIE)	Kalasalingam ARE, Virudhunagar		2018
Anna University Syllabus Sub Committee Member	Anna University, Chennai		2018
PhD Viva-voce Examiner	Anna University, Chennai		2015
Industrial visit for collaboration	Seshasayee paper board ltd, Erode		2015
Industrial visit for collaboration	Honeywell M/S Ltd, Madurai		2015
Keynote speaker/ Resource person	SriRamakrishna Institute of Technology, Coimbatore		2014
Visited MIT for NBA activities	MIT, Anna University Chennai		2014
Participant/ Centum VP DCS	Yokogawa Technical school		2014
Resource person/ technical presentation	SriRamakrishna Institute of Technology, Coimbatore		2013

Doctoral committee expert member, Guidance/approval	VIT university, AP		2013
Instructor/ Technical presentation	DRDL Hyderabad		2013
Chief guest for technical paper presentation	J J college of Engineering and Technology, Tiruchirappallli		2012
Doctoral committee expert member, Guidance/approval	VIT university, AP		2012
Doctoral committee expert member	MIT, Anna University Chennai		2012
BOS member	PSG Tech, Coimbatore		2012
Participant/ Specialized research training	National University Singapore		2007
Participant/ Procon RT simulator	TSPL factory		2006
Resource person/ technical presentation	Bharath Institute of higher education school		2003

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2021	Distinguished Alumni Award for PG	Madras Institute of Technology, Anna University, Chennai
2002	First Rank holder in M.E	Madras Institute of Technology, Anna University, Chennai
2022	Best performer (Faculty)	National Institute of Technology, Tiruchirappalli

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2007	TEQIP fellowship	TEQIP	26/11/2007	25/12/2007
2011	Young Scientist Travel Grant to attend the ADCONIP - 2013	DST	2013	
2018	Young Faculty Research Fellowship	MEIT,GOI	24/01/2018	--
2000	GATE scholarship	MHRD, GOI	2000	2002

13. Details of Academic Work
   (i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

- Process Control
- Transducer Engineering
- Industrial Instrumentation
- Modern Control Engineering
- Neural Network & Fuzzy Logic
- Logic and Distributed Control Systems
- Measurement and Instrumentation
- Computer Control of Processes
- VLSI Design
- Analog and Digital Instrumentation
- Applied Soft Computing Techniques
- System Identification and Adaptive Control

(iii)Projects guided at Postgraduate level

- Devi S - Development of Neural Network Based Internal Model Controller Schemes for pH Process (Phase 1, 2006)
- Devi S – Neuro modeling and Control of pH Neutralization Process (Phase 2, 2007)
- N Ravindra Kumar - Model Predictive Control of Networked Control System (Phase 1, 2007)
- N Ravindra Kumar - Design and Modeling of Networked Control System (Phase 2, 2008)
- Vinod Reddy Thupili - Design of Multi Model Based Controller and Implementation Using Micro Controller for Type I Diabetics (Phase 1, 2008)
- Vinod Reddy Thupili - Identification and Controller Design of Three Tank Interacting Process Using a Data Driven Approach (Phase 2, 2009)
- Dinesh Kumar R - Kalman Filter Based Epileptic Spike Enhancement and Detecti on (Phase 1, 2012)
- Dinesh Kumar R - Multi Sensor Data Fusion Using Different State Estimator Techniques (Phase 2, 2013)
- Jenesh A - Development of Fault Detection and Identification Algorithm for Multi Variable Control System Using Fast Fourier Transform Technique (Phase 1, 2012)
- Jenesh A - Development of FDI Algorithm for FOPDT and SOPDT Processes Using Fast Fourier Transform Technique (Phase 2, 2013)
- Indranil Dey - Micro Controller Based Implementation of RTDA Controller (Phase 1, 2014)
- Indranil Dey - Micro Controller Based Implementation of PID and Model Predictive Controller (Phase 2, 2014)
- Abhinav Srivastava - System Level Design and Modeling of Asynchronous Adaptive Level Based Sampling for Clock-Less ADC (2015)

- Karthic R - Modeling of Nonlinear Processes Using Multi Model Approach (Phase 1, 2014)
- Karthic R - Design and Development of Wireless Communication Model for Process Control Application (Phase 2, 2015)
- Dipak Kumar Sahoo - Design and Implementation of Different Control Strategies in DCS and Control of a Real Time Process (Phase 1, 2015)
- Dipak Kumar Sahoo - Development of Energy Efficient Network Topology and Controller for Indoor Lighting Control (Phase 2, 2016)
- Sarika G S - Development of Stand -Alone Driver Drowsiness Detection (DDD) System (Phase 1, 2015)
- Sarika G S - Modeling and Control of Unmanned Aerial Vehicle (Phase 2, 2016)
- Chetan Desai - Design and Modeling of Asynchronous Adaptive Level Based Sampling (Phase 1, 2016)
- Chetan Desai - Design and Modeling of Asynchronous Adaptive Level Based Sampling (Phase 2, 2017)
- Shuvdip Sarkar - Sensor Linearization Using SoP Computing Technique (Phase 1, 2016)
- Shuvdip Sarkar - Sensor Linearization Using SoP Computing Technique (Phase 2, 2017)
- Deba Prasad Jana - PLC based dynamic switching and condition monitoring of conveyor belt system (Phase 1, 2018)
- Deba Prasad Jana - Condition monitoring and fault detection of conveyor belt system (Phase 2, 2018)
- Syamala V V S Sai Uday Kiran Reddy - Attitude control and trajectory tracking of a quadcopter (UAV) using MPC (2019)
- Jortin Abraham James - Development of IoT based automation for smart multi-process station (2019)
- Ajil P. Roy - Design and development of a goggles based drowning detection system (2019)
- Prabhu P - IoT based Thermal Comfort Monitoring System (Phase 1, 2019)
- Prabhu P - Security issues in internet of things (IOT) based multi process station (Phase 2, 2020)
- Arun V. Thomas - Design and Implementation of Enhanced PID controller and analysis of Cyber Security issue for real time process using low cost microcontroller (2020)
- Honrao Shubham Nandkumar - Worst-case ε-stealthy attack design in cyber-physical system (Phase 1, , 2020)
- Honrao Shubham Nandkumar - Worst-Case $\mathcal{E}$-Stealthy Attack and FDIA Detection in Cyber-Physical System (Phase 2, , 2021)
- Preksha Gupta - Detection of False Data Injection Attack in Cyber Physical System using Machine Learning Technique (Phase 1, , 2021)
- Karthik R Warrier - Real time Implementation of PID Controller and Active Disturbance Rejection (ADRC) controller on Quadcopter (Phase 1, 2021)
- Preksha Gupta - Detection of False Data Injection Attack in Cyber Physical System using Machine Learning Technique (Phase 2, 2022)

- Karthik R Warrier - An active Disturbance Rejection Control (ADRC) strategy Implementation for the position and Orientation Control of Quadcopter system for the purpose of Trajectory Tracking (Phase 2, 2022)

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Indepth investigation on corrosion & tribological studies on Expandable Engine	GTRE, DRDO	Nov. 2018	Oct 2021	Completed
Smart process automation using industrial communication protocol and internet of things	Young Faculty Research Fellowship, Ministry of Electronics and Information Technology, GOI	Jan 2018	Sept. 2020	Completed
Electronification of ground water control and conveyor system in mines	Ministry Of Coal and Government of India	Jan 2018	March 2020	Completed
Development of Multi-model based nonlinear controller design for simulated and real time nonlinear processes	DST, GOI	September 2010	March 2014	Completed

Consultancy projects:

Title	Agency	Cost in Lakh	From	To	Ongoing/ Completed
Emergency Response Support System	CDAC Tiruvananthapuram	50 lakhs	22 November	21- November	Ongoing

				2021	2023	
Modeling and Control of processes with large process lag and random disturbances	CDAC Tiruvananthapuram under ASTEC Programme	10 Lakhs	September 2009	September 2012	Completed
Electrical performance evaluation of thermoelectric generator (TEG) system in boiler flue gas duct	B.H.E.L, Trichy	3.44 Lakhs	15 July 2016	14 April 2017	Completed

Patents:

Patent Title	Name of Applicant(s)	Patent No.	Awarded / Filed Date	Agency/ Country	Status
A method and System for Implementing MPPT Technique for Extracting the Maximum Power in TEG Systems	Dr. G. Saravana Ilango, Dr. K Srinivasan	Reg. No: 201741030634	30-08-2017	Intellectual Property of India	Filed
Drowning Detection device	Dr. K Srinivasan, Ajil Roy, Vijay R	Reg. No: 201741038209	27-10-2017	Intellectual Property of India	Filed

15. **Number of PhDs guided**

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
Dr. K. Anbarasan	Design and Performance analysis of RTDA control schemes for Linear and Non-linear processes	Guide	07/05/2015
Dr. Prashant Dattatraya Sarwade	Sensor Linearization using Multilinear Model Technique	Guide	23/07/2020
Dr. Avinash Kumar Roy	Development of Recursive Estimators for	Guide	05/04/2021

	Linear/Nonlinear Networked Control System			
Dr. V. Sridevi	Patient Independent System to detect the electrical onset of Temporal Lobe Epileptic Seizure	Co-guide	06/07/2021
Dr. Haseena B.A.	Design and development of Mixed Constrained Next Generation Controller for Industrial Process Control applications	Guide	14/07/2021
Dr. S.M.A.K. Azad	Performance Analysis of Process Automation Network in Exchange of Non-Critical Information	Guide	01/09/2021

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
05-2020	ACODS 2020	International	Participant & Speaker	IIT Madras	Chennai
27-03-2012	CAR 2012	International	Presenter	GSTF	Singapore/Bangkok
23-05-2011 - 27-05-2011	ADCONIP 2011	International	Presenter	IEEE/ Zhejiang University	China
20-07- 2011 - 22-07-2011	PACC2011	International	Participant	IEEE/CIT	Coimbatore
15-12-2010 - 19-12-2020	SYMOPA 2010	International	Speaker	CDAC	Thiruvananthapuram
27-10-2009 - 28-10-2009	ARTCOM - 2009	International	Participant	IEEE	Kottayam
15-09-2006 - 17-09-2006	IEEE INDICON 2006	International	Participant	IEEE	New Delhi

04-01-2007 - 06-01-2007	TIMA Conference	International	Speaker	TIMA	NIT Trichy
16-12-2005 - 17-12-2005	NPCID Conference	National	Participant	MIT/ANNA University	Chennai
15-03-2004 - 16-03-2004	Conference on Multi Variable System	National	Speaker	BIHER Deemed University	Chennai

Details of continuing education program attended:

Title	Organisation/Place	Duration
Research training in Process Control	Dept. of Chemical and Bimolecular Engineering, National University of Singapore	26-11-2007 - 25-12-2007
Advanced Optimal Control and Estimation	IISC Bangalore	28-07-2009 - 01-08-2009
Process Identification and Control	NIT Trichy	16-06-2008 - 28-06-2008
Instructional design and delivery system	NITTR Chennai	07-07-2008 - 12-07-2008
Applied Digital Signal Processing	AICTE/IITM Chennai	02-07-2007 - 07-07-2007
Embedded Systems & Technology	GSST/IIT Kharagpur	25-06-2007 - 30-06-2007
Computer Hardware and Networking Technologies	AICTE/ISTE	05-03-2007 - 09-03-2007
Trends in Intelligent Measurement and Control	AICTE/ISTE & MIT Chennai	22-11-2004 - 27-11-2004
Neuro Fuzzy based Industrial Automation	AICTE/ISTE & KONGU Engineering College	15-03-2004 - 28-03-2004
DCS Simulator Training	TSPL Mumbai	26-06-2006 - 28-06-2007
National seminar on Instrumentation Practices	ISA/MIT ANNA	27-10-2006

	University	- 28-10-2006
Systems and Simulation	IEEE & SSN College of Engineering, Kalavakkam	10-12-2003 - 13-12-2003
International seminar on Virtual Laboratories for remote access	College of Engineering, ANNA University, Chennai	21-02-2005 - 22-02-2005
Seminar on Information Technology in Instrumentation Technology and Teachers for tomorrow	ISA/MIT ANNA University	05-07-2002 - 06-07-2002
Non linear control system	TEQUIP & NITT	21-02-2008
Multi variable control system	TEQUIP & NITT	26-02-2008
Embedded on chip design tutorial	TIMA & NITT	04-01-2007
Virtual Instrumentation	National Instruments & SMKFM Institute of Technology, Kalavakkam	25-09-2004

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
FDP on Industrial Process Automation (IPA – 2019)	National	02.08.2019	08.08.2019	NITT
Workshop on Recent Trends in Industrial Process Automation (RTIPA -2019)	National	01.02.2019	05.02.2019	NITT
Workshop on Process Instrumentation and Control	National	04.07.2016	09.07.2016	NITT
Workshop on Advanced Control Engineering	National	09.10.2015	10.10.2015	NITT
Workshop on Industrial Automation	National	17.08.2015	19.08.2015	NITT
Workshop on Advanced Process Control	National	18.07.2013	20.07.2013	NITT
FDP on Laboratory Training for Technicians in Educational Institutions	National	24.06.2013	26.06.2013	NITT
FDP on Computer	National	04.01.2010	09.01.2010	NITT

Control of Processes				
Workshop on Challenges in Control Engineering	National	08.01.2009	09.01.2009	NITT
Workshop on Fault Diagnosis and Application	National	22.04.2008	22.04.2008	NITT
Workshop on Control Engineering Trends and Practices	National	03.11.2007	04.11.2007	NITT
Workshop on Control Engineering	National	14.07.2007	15.07.2007	NITT
FDP on Biomedical Instrumentation	National	24.11.2003	06.12.2003	Bharath Institute of Higher Education and Research
Workshop on Product Design Technologies and Entrepreneurship Awareness Programme for UG and PG Student	National	21.02.2015	22.02.2015	NITT
Sixth International Conference on Advances in Control & Opti mizati on of DynamicalSystems (ACODS 2020)	International	16.02.2020	19.02.2020	IIT Madras
ICECON - 2019 - Future Trends in Instrumentation and Control Engineering	International	19.12.2019	21.12.2019	NIT Trichy
ACODS-2016 (Co-Ordinator and Financial Chair)	International	01.02.2016	05.02.2016	NIT Trichy
ACODS - 2012	International	16.02.2012	18.02.2012	IISC Bangalore
ICECON 2009	International	07.12.2009	08.12.2009	NIT Trichy
ICECON 2007	International	27.12.2007	29.12.2007	NIT Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Lecture on Industrial Automation	2019	Mahendra Engineering College, Namakkal
Introduction to modern control theory	01-02-2013 - 02-02-2013	Advanced control engineering for scientist B,C and D at DRDL Hyderabad

Introduction to computer control of process	04-01-2010	CCP - 2010
MATLAB based simulation Experiments	05-01-2010	CCP - 2010
Multi model based nonlinear controller design with case studies	09-01-2009	Workshop on Control Engineering Trends and Practices, NITT
Computer control of Process	18-06-2008	AICTE sponsored two weeks SDP in process Identification and control
Industrial Automation (PLC and DCS)	28-06-2008	AICTE sponsored two weeks SDP in process Identification and control
MATLAB based Fuzzy Logic Design	03-11-2007	Workshop on control Engineering Trends and Practices, NITT
Design of controller for unstable system	14-07-2007	Workshop on control Engineering Trends and Practices, NITT
Design of controllers for unstable MIMO process	20-12-2006	TEQUIP sponsored Workshop on Unstable System NITT

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	IEEE	94545491
Life member	ISTE	LM 40913
Life member	IE (India)	M-140949-7
Member	ISA	

20. Academic Foreign Visits

Country	Duration of Visit	Programme
Singapore, TEQIP	26/11/2007 – 25/12/2007	Research Training in NUS

21. Publications

 (A) **Refereed Research Journals:**

Author(s)	Title of Paper	Journal	Volume (No.)	Pages	Year	Impact Factor of the Journal (Optional)
Avinash Kumar Roy and K. Srinivasan	Event based optimal filter for a networked system with multiplicative and auto/cross correlated process and measurement noise	International Journal of Adaptive control and signal processing	(Accepted)	13	2022	Q1(3.637)
Prabakar V, Srinivasan K.	Design and Development of Smart Wireless Sensor Network Based DAS for Aero Gas Turbine Engines	International Journal on Engineering Science and Technology			2021 (Accepted)	Q3
B. A. Haseena, K.Srinivasan	Scalable multiple linear model RTDA controller formulation for constrained nonlinear processes https://doi.org/10.1002/oca.2822	Optimal Control applications and methods			2021	Q2(2.530)
K. Senthilkumar, Avinash Kumar Roy and K. Srinivasan	Event triggered estimator-based controller design for networked control system https://doi.org/10.1016/j.isatra.2021.08.017	ISA Transactions	126	80 -93	2021	Q1(5.436)
S M A K Azad & Srinivasan Kannan	Anomaly Detection in Estimation of Load and Prediction of Load in Networked Control System Using Correlation and Regression Data Analysis https://doi.org/10.1080/03772063.2021.1886600	IETE Journal of Research, Taylor and Francis			2021	Q3(1.125)

S M A K Azad & Srinivasan Kannan	Bandwidth assessment of scheduled and unscheduled communication in hybrid networked control system https://doi.org/10.1080/23335777.2021.1924283	Cyber-Physical Systems, Taylor and Francis			2021	Q3(0.3)
Haseena B. A. and Srinivasan K.	Design and development of constrained next generation controller with and without event triggered mechanism for single link robot arm	Automatic Control & Computer Sciences	55	407–418	2021	Q3(1.30)
S.M. Abdul Kalam Azad and K. Srinivasan	Dynamic Network Scheduler for customized Aperiodic communication in Networked Control System	Automatic Control and Computer Sciences	55 (3)	263-276	2021	Q3(1.30)
Avinash Kumar Roy, Srinivasan Kannan	State estimation for a networked control system with packet delay, packet dropouts and uncertain observation in S-E and C-A channels	Optimal Control applications and methods	41(6)	2094 - 2114	2020	Q2(2.530)
S. M. A. K. Azad & K. Srinivasan	Analysis of time delays in scheduled and unscheduled communication used in process automation.	Automatika	61(1)	109-116	2020	Q2(0.764)
Srinivasan. K and Prashant D. Sarawade	An Included Angle Based Multilinear Model Technique for Thermocouple Linearization.	IEEE Transactions on Instrumentation and Measurement	69 (7)	4412-4424	2020	Q1(3.658)

Avinash Kumar Roy, Srinivasan Kannan	Development of event-triggered-based minimum variance recursive estimator for the NLNS using multi-model approach.	IET Signal Processing	13 (9)	766-777	2019	Q2(2.11)
Sridevi V, Ramasubba Reddy M, Srinivasan K, Radhakrishnan K, Rathore C, Nayak DS	Improved Patient-Independent System for Detection of Electrical Onset of Seizures.	Journal of Clinical Neurophysiology	36 (1)	14-24	2019	Q2(1.982)
Prashant Dattatraya Sarawade and Kannan Srinivasan	T–S fuzzy-based multi-LAE approach for sensor linearisation.	IET Science, Measurement & Technology	12 (8)	1015-1022	2018	Q2(1.975)
B.A. Haseena, K. Srinivasan	Development of mixed constrained RTDA controller for industrial applications.	ISA Transactions Elsevier Publications	81	197-209	2018	Q1(5.436)
Abhinav Srivastava and K. Srinivasan	Development of Mathematical Model for Signal Dependent Linear Adaptive Level Based Sampling.	International journal of circuit theory and applications. John Wiley & Sons publications	44(5)	1112-1126	2015	Q2(2.038)
Anbarasan K and K. Srinivasan	Design of RTDA controller for industrial process using SOPDT model with minimum or non-minimum zero.	ISA Transactions Elsevier Publications	57	231-244	2015	Q1(5.436)
Srinivasan K. and K. Anbarasan	Fuzzy scheduled RTDA controller design for non-linear processes.	ISA Transactions Elsevier Publications	52	252-267	2013	Q1(5.436)

Author(s)	Title	Journal	Vol(Issue)	Pages	Year	Quartile
VijayaRaghavan S. R., T. K. Radhakrishnan, K. Srinivasan	Soft sensor based Composition estimation and controller design for Ideal Reactive Distillation Column.	ISA Transactions Elsevier Publications	50	61-70	2011	Q1(5.436)
Srinivasan K and T. Vinod reddy	Design of Multi Model Based Controller Design and Implementation using Micro Controller for Blood glucose regulation of Type 1 Diabetic System	Int. J. Biomedical Engineering and Technology	5(4)	343-359	2011	Q4
Prakash J. and K. Srinivasan	Design of nonlinear PID controller and nonlinear model predictive controller for a continuous stirred tank reactor.	ISA Transactions Elsevier Publications	48	273-282	2009	Q1(5.436)
Sriram R., K. Srinivasan and T. Vinod Reddy	Internal Model Control design for blood glucose in Diabetic patients	International Journal of Pharmaceutical and Applied Sciences	1	48-51	2010	Q4
Srinivasan K., J. Singh , K. Anbarasan, R. Paik , R. Medhi and K.D. Choudhury	MPC and RTDA controller for FOPDT & SOPDT Process	International Journal of Information systems and Communication	3(1)	109-113	2012	Q4(4.57)

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Ajay Gopal Tirumalai Echambadi, Shuprajhaa T, Srinivasan K	Output Voltage Regulation of Step-Up Converters Using Predictive Control for PV Systems.	Recent trends in Instrumentation and Control (RTIC - 2022)	Accepted (In press)	Instrumentation and Control	MIT, Chennai	2022

Thulasi M Santhi, K. Srinivasan	Security Enhanced IoT Based Wireless Sensor Network Using Heuristic Algorithm and Advanced Encryption Standard.	Recent trends in Instrumentation and Control (RTIC - 2022)	Accepted (In press)	Instrumentation and Control	MIT, Chennai	2022
Prabakar V, K. Srinivasan	Design of an Integrated Data Acquisition System for Aero Engine Testing Using LabVIEW Virtual Instrumentation.	Proceedings of International Conference on Engineering, Science and Technology	Accepted	Recent trends in data acquisition	Chicago, USA	2022
C. Sanjay, K. Srinivasan	Analysis of the Zhang Neural Network and its Application for the Control of Nonlinear Dynamical Systems	3rd IFAC conference on Modelling, Identification and Control of Nonlinear Systems	366-371	Non linear control	Tokyo, Japan	2021
Senthilkumar K, Avinash Kumar Roy, Srinivasan Kannan	Prediction based event-triggered estimator for networked system	24th International symposium on Mathematical Theory of Networks and Systems MTNS 2020	54(9) 731-736	Mathematical trends in engineering	Cambridge, United Kingdom	2020
Pediredla Vijay Kumar , Challa Akhil, K. Srinivasan	A Novel Monitoring System for Haptic Belt Control to Augment Human Machine Interaction	Advances in Control & Optimization of Dynamical Systems 2020	53 (1) 585- 590		IIT Madras	2020
Shuprajhaa. T, Haseena B A, Srinivasan Kannan	Design and Development of Modified RTD-A Controller for Unstable Bioreactor,	Advances in Control & Optimization of Dynamical Systems 2020	53 (1) 240-245	Control and optimization	IIT Madras	2020

P. Chandrasekar, K. Srinivasan	Soft sensing based Online measurement of Backlash in CNC Servo systems	International Conference on Instrumentation and Control Engineering (ICECON-2019)	212-217	Instrumentation and Control	NIT-Trichy	2020
V Arun Thomas, K. Srinivasan, Thulasi M Santhi	Design and real-time implementation of microcontroller based enhanced digital PID control for lead acid battery charger	International Conference on Instrumentation and Control Engineering (ICECON-2019)	157-162	Instrumentation and Control	NIT-Trichy	2020
V Arun Thomas, K. Srinivasan	Design and implementation of enhanced PID controller in embedded platform for real-time applications	2nd International Conference on Power and Embedded Drive Control ICPEDC- 2019	40-45	Power electronics/ control	SSN College of Engineering, Chennai	2019
P.Chandrasekar and K.Srininivasan	Inferential based measurement of Backlash in Servo system	2nd International Mechanical Engineering Conference (IMEC 2019)		Mechanical	National Institute of Technology, Tiruchirappalli	2019
Prashant D. Sarawade and Srinivasan K	Thermocouple linearization using data driven approach	4th National Conference on "Recent Trends in Instrumentation and Control (RTIC)		Instrumentation and Control		2019
S. Vasanthakumar, K. Srinivasan	Design and development of ORGCC control strategy for trajectory tracking of UAV	Second international conference on Advancements in Automation, Robotics & sensing (ICAARS-		Automation and Robotics	PSG College of Technology, Coimbatore, Tamil	2018

		2018)			Nadu	
Ajil Roy, K. Srinivasan	Effective method of drowning detection based on the review of conventional drowning detection methods	Second international conference on Advancements in Automation, Robotics & sensing (ICAARS-2018)		Automation and Robotics	PSG College of Technology, Coimbatore, Tamil Nadu	2018
Ajil Roy, K. Srinivasan	A novel drowning detection method for safety of swimmers,	20th National Power Systems Conference-NPSC 2018		Power systems	National Institute of Technology, Tiruchirappalli	2018
Shuprajhaa T, Bharath kanna C and K. Srinivasan	E-IOT enabled remote monitoring of air pollutants in metropolitan cities.	International Conference on Energy, Environment and Industrial Safety, ICEEIS 2018	182	Industrial safety	Anna University, Chennai	2018
Avinash Kumar Roy , K. Srinivasan	Stochastic output feedback controller for two tank interacting nonlinear system	14th IEEE India Council International Conference (INDICON)		control	IIT Roorkee	2017
S.M.A.K. Azad. and K. Srinivasan	Delay Analysis of Control Net and Device Net in Distributed Control System	International Conference on Communication, Control, Instrumentation & Computational Technologies, IC3ICT		Communication, Control, Instrumentation	R.L. Jalappa Institute of Technology, Singapore	2017
Veerasingam Sridevi, Machireddy RamasubbaReddy, Kannan Srinivasan, Karupath Radhakrishn	Study of significance of spectral and wavelet energy measures to detect the electrical onset of seizure	International Conference on Inventive Computing and Informatics (ICICI), Coimbatore, Tamil Nadu		Computations	Coimbatore, Tamil Nadu	2017

an, Chaturbhuj Rathore, S Dinesh Nayak						
Karthic R, Avinash Kumar Roy, Srinivasan K	Neural Network based Multi-Model approach for Modeling of real time pH Neutralization Process	National Conference on Recent Trends in Instrumentation and Control (RTIC)		Instrumentation and Control	MIT, Chennai	2016
S.M.A.K. Azad. K. Srinivasan	Implementation of Open Communication Protocol through Wireless Medium for Process Automation	International Conference on Internet of Things and Applications, IOTA		IoT/IIoT	Maharastra Institute of Technology, Pune	2016
P. Satya Ravi Teja , V. Kushal , A. Sai Srikar and K. Srinivasan	Photosensitive security system for theft detection and control using GSM technology	International Conference On Signal Processing And Communication Engineering Systems (Spaces)		Signal processing	Guntur, India	2015
Abhinav Srivastava and K. Srinivasan	Clock-less positioning of sampling pulse for extraction of critical information adding advantage on fixed rate and level based sampling	International conference on Advances in Computing and Communications (ACC-2014)		Computations	Cochin, India	2014
Abhinav Srivastava and K. Srinivasan	Signal dependent adaptive level based sampling technique to minimize quantization error	International Conference TENCON-2014		Signal processing and control	Bangkok	2014
Akhilandeswari, Abhinav Srivastava,	Impact of electronic equipment and	Proceedings of First National Conference on			CEECASE, NIT Trichy	2013

G. Lakshminarayanan, K. Srinivasan and G. Saravana Illango	Techniques in the application of corrosion monitoring system	CST 2013				
Anbarasan K. and Srinivasan K.	Design and development of RTDA controller for SOPDT process	International Conference on Trends in Industrial Measurement and Automation (TIMA-2013)		Industrial Measurement	MIT campus, Anna University, Chennai	2013
Srinivasan K.	Impact of Electronic equipments and Techniques in the application of corrosion monitoring system	First National Conference on CST			NIT Trichy	2013
K. Srinivasan, A. Jenesh and K. Anbarasan	Development of fault detection and identification algorithm for FOPDT and SOPDT processes using Fast Fourier Transform technique	National Conference on Recent Trends in Instrumentation and Control (RTIC-2013)		Instrumentation and Control	MIT, Chennai	2013
R. Dinesh Kumar, K. Srinivasan, V. Sridevi	A multisensor Data Fusion using different State Estimators	National Conference on Recent Trends in Instrumentation and Control (RTIC-2013)		Instrumentation and Control	MIT, Chennai	2013
Srinivasan K., T.K. Radhakrishnan and Devi S.	Recurrent Neural Network based Internal Model Controller design for pH neutralization process	Second International Conference on Control, Automation and robotics (CAR 2012)		Automation, Control	Bangkok	2012
Akhil T.	Kalman filter	IEEE		Automation	CIT,	2011

Nair, Dr. T.K. Radhakrishnan, Dr. K. Srinivasan and Dr S. Rominus Valsalam	based state estimation of a thermal power plant	sponsored International conference on Process Automation, Control and Computing (PACC 2011)		, Control	Coimbatore	
Srinivasan K. and Prakash J.	Design and Implementation of Nonlinear Internal Model Controller on the Simulated Model of pH process	International Conference on Advanced Control of Industrial Processes (ADCONIP-2011)		Industrial Processes	China	2011
Srinivasan K. and Radhakrishnan T.K.	Development of Neural Network based soft sensor design for application to three tank interacting nonlinear MIMO process	International Conference SYMOPA 2010		Soft computing techniques	CDAC Tiruvananthapuram,	2010
Vinod Reddy T and Srinivasan K.	Multi model based controller design for Type I diabetic patients' held at	IEEE sponsored International Conference on Advances in Recent Technologies in Communication Computing (ARTCOM 2009)		Technologies in Communication	Kottayam, Kerala	2009
K. Srinivasan & J. Prakash	Design of Gain scheduled PID controllers for CSTR Process proceedings	The fifth International Conference on Trends in Industrial Measurements and Automation (TIMA-2007)	192-196	Industrial Measurements	NIT, Trichy	2007
Devi S	Recurrent Neuro	Theoretical,		Computatio	IIT,	2007

and K. Srinivasan	modeling of pH neutralization process	Applied, Computational and Experimental Mechanics & Aerospace Engineering ICTACEM 2007/061/1-7, Fourth International Conference		ns	Kharagh pur	
K. Srinivasan & J. Prakash.	Non-linear State Estimation for Continuous Stirred Tank Reactor using Neural Network State Filter	IEEE sponsored International Conference on Emerging Trends in Information and Communicatio n Technology (IEEE – indicon-2006)		Trends in Information and Communica tion	New Delhi	2006
K. Srinivasan.	Development of Feed Forward Neuro Dynamic Model for Three Tank Process	National Conference on Process Identification, Control and Diagnosis (NCPICD – 2005)	239-245	Process Identificatio n	Madras Institute of Technolo gy, Chennai.	2005
K. Srinivasan	Design of Decoupling controller for Non-Linear Chemical Mixing Process	AICTE Sponsored National conference on Multi variable control system.	103-109	Multi variable control	Bharath Institute of Higher Educatio n and Research , Chennai	2004
K. Srinivasan & P. Lakshmi	Application Of Neuro-Fuzzy Logic Controller For Non-Linear Chemical Mixing Process With	National Conference on Artificial Neural Network and Fuzzy Systems	93 – 99	Soft computing techniques	Annamal ai Universit y, Chidamb aram	2002

	Large Transportation Lag,	(NCANNFS-02)				
K. Srinivasan & P. Lakshmi.	Adaptive Neuro-fuzzy controller for Non-Linear Chemical Mixing Process	The seventh Inter National Conference on Control, Automatic, Robotics and Vision (ICARV-2002)	1626 - 1631.	Control, Automatic, Robotics	Singapore	2002
K. Srinivasan & P. Lakshmi	Application Of Fuzzy Logic Controller For Non-Linear Chemical Mixing Process With Large Transportation Lag	National Conference on Instrumentation Measurement and Control (IMAC 2002)		Instrumentation Measurement	Andhra University, Vishakha patnam	2002

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
S. M. A. K. Azad, K. Srinivasan	Delay Analysis of Control Net and Device Net in Distributed Control System. https://link.springer.com/bookseries/11156	Proceedings of 2nd International Conference on Intelligent Computing and Applications. Advances in Intelligent Systems and Computing, springer edition, Singapore	467 617-626 2017	
T. Shuprajhaa, K. Srinivasan, G. Saravana	Mobile SCADA solution for condition	Recent Trends in Instrumentation & Control	28-34 2019	

Ilango and M.P. Ambalavan an	monitoring of conveyor systems	(RTIC-2019) Allied publications private limited		
Kannan Srinivasan	Smart Process Measurement and Automation Challenges, Solution and Future Direction	CSI Transactions on ICT	93–98 2019	