




SRM Valliammai Engineering College (An Autonomous institution)

SRM Nagar, Kattankulathur-603203, Kancheepuram District, Tamil Nadu

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Personal Details

Name :	Dr. Andy Srinivasan		
Designation :	Professor and First Year Chief Coordinator		
Educational Qualification :	B.E., M.Tech., Ph.D.		
Experience:	18 Years		
Date of Joining :	28.08.2008		
Email ID :	andysrinivasan.eie@valliammai.co.in		
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Educational Details

Degree	Branch/Specialization	Institution / University	Year
B.E	Electronics and Instrumentation	Hindustan College of Engineering, Madras University-603103	1999
M.Tech	Process Control and Instrumentation	National Institute of Technology (REC), Bharadhidasan University, Trichirapalli-620015	2002
Ph.D.	A New method for Identification and Control of Wiener-type Nonlinear system	College of Engineering Guindy, Anna University Chennai-600025	2008

Professional Society Memberships

Life Member of Indian Society for Technical Education(ISTE)

Member of Indian Science Congress Association

International Association of Engineers

Publication Details

Journals:

1. Srinivasan A. and Lakshmi P. (2008), 'Identification and Control of Wiener Processes and its Application to Real-Time Heat Exchanger', Asia-pacific Journal of Chemical Engineering, 3(6), 622-629, <https://doi.org/10.1002/apj.119>, **Science Citation Indexed**.
2. Srinivasan A. and Lakshmi P. (2010), 'Wiener model based Controller Design for a physical Heat Exchanger', AMSE Journal of Modelling, Measurement and Control-Series-B-Mechanics and Thermics, 77(6), 74-88. **SCOPUS**.
3. Lakshmikhandan.K, Srinivasan. A and M.Dharani (2014) 'Optimal switching angle selection and harmonic elimination of multilevel inverter: A new hybrid technique', International Journal of Applied Engineering Research, 9(23), pp. 21921-21940, **SCOPUS**.
4. K.Lakshmikandan, M.Dharani, A.Srinivasan, (2014) 'Modeling and Analysis of Hybrid Filters for Harmonic Reduction In Medium Voltage Distribution Network, International Journal of Applied Engineering Research, Volume 9, Number 24, pp. 29193-29200, **SCOPUS**.
5. A. Asuntha, A.Brindha, S.Indirani and Andy Srinivasan. (2016), Lung cancer detection using SVM algorithm and optimization techniques, Journal of Chemical and Pharmaceutical Sciences, 9(4), 3198-3203, **SCOPUS**.
6. Arunraj M, Andy Srinivasan, Vimala Juliet. (2018), "Online Action Recognition from RGB-D cameras based on Reduced Basis Decomposition" Journal of Real-time Image Processing, pp. 1-16, <https://doi.org/10.1007/s11554-018-0778-8>, **Science Citation Indexed expanded, SCOPUS, IF-2.010**,

1861-8200.

7. Asuntha, A., Srinivasan.A. (2020), Deep learning for lung Cancer detection and classification, Multimedia Tools and Applications, 2020, **Science Citation Indexed, SCOPUS.**
8. Asuntha A, Faizy, Rahu S, Akshay Menon, Pranjal, Andy Srinivasan. (2019), “A hybrid feature extraction approach for the detection of melanoma using neural network”, International Journal of Research in Pharmaceutical Sciences, **SCOPUS.**
9. Asuntha, A., Sree Charan, Y., Siddartha, M., Udhaykumar, K., Srinivasan, A. (2019), “Identification of diabetics mellitus using iridology”, International Journal of Research in Pharmaceutical Sciences, **SCOPUS.**
10. Asuntha, A., Srinivasan, A. (2019), Lung cancer detection using Adaptive Bilateral Filter (ABF) techniques, International Journal of Research in Pharmaceutical Sciences, **SCOPUS.**
11. Srinivasan A. and Lakshmi P. (2008), ‘Real-Time Identification and Control of Heat Exchanger Process’, Journal of Automation & Systems Engineering, 2(1), 30-40.
12. Lakshmi P. and Srinivasan A. (2008), ‘Wiener model based Nonlinear PID controller for CSTR’, International Journal of Power System and Power Electronics, 2(1), 7-12.
13. Jenifer.Z and Andy Srinivasan, (2012) ‘Real-Time identification and control of inverted pendulum using LABVIEW’ ABI International Journal of Modern Science and Engineering, 1(1), 7-16.
14. V. Vijayalakshmi, Andy Srinivasan and Z.Jenifer. (2013), ‘Real Time Pole Placement Controller Design and Implementation of A Rotary Inverted Pendulum - Using LABVIEW’, Industrial Science Journal, 1(1), 1-8, ISSN-2347-5420.
15. Asuntha, Andy Srinivasan (2014), ‘Tuning Of Controllers for Non Linear Process using Intelligent Techniques’, International Journal of Innovative Science Engineering and Technology, 1(5), 180-183.
16. A Asuntha, Andy Srinivasan (2014), Intelligent PID Controller Tuning Using PSO for Linear System, International Journal of Innovative Science Engineering and Technology, 1(5), 166-174.
17. K.Chithra, Andy Srinivasan, A.Asuntha, V.Vijayalakshmi (2015), ‘Modeling and control of non-linear multivariable system using optimization techniques, International Journal of Applied Engineering Research, 3(III), 12780-12785.
18. K.Chithra¹, Andy Srinivasan², V.Vijayalakshmi³, A.Asuntha⁴ (2015), ‘PID Controller Tuning in Reverse Osmosis System based on Particle Swarm Optimization’, International Journal for Research in Applied Science & Engineering Technology, 3(III), 351-358.
19. Lakshmikhandan K, Srinivasan A, Dharani M, Manjula U & Monika J. (2016), “Design of Single Phase Nine Level Inverter for an Unbalanced Capacitor”, Middle-East Journal of Scientific Research, 24, Recent Innovations in Engineering, Technology, Management & Applications, 74-80, ISSN 1990-9233.
20. A. Asuntha, Neelima Singh and Andy Srinivasan. (2016), PSO, Genetic Optimization and SVM Algorithm used for Lung Cancer Detection, Journal of Chemical and Pharmaceutical Research, 8(6), 351-359.
21. Lakshmikhandan K, Andy Srinivasan, Mohd. Ali Jagabar Sathk. (2017) ‘Single DC Source-based Multilevel Converter Topology with Reduced Power Switches and Conduction Losses, Journal of Electrical Engineering, 17(4), 298-309, INSPEC 3, SJR 0.12.
22. Lakshmikhandan K, Dr.Andy Srinivasan & Dharani M. (2017), “Performance Analysis of 11-Multilevel Inverters using Sinusoidal PWM Techniques with Reduced Switching Pattern”, Asian Journal of Research in Social Science and Humanities, 7(3), 791-801, ISSN 2249-7315. SJIF 5.997.
23. Indrajit Jana, Asuntha, Brindha A, Selvam K, and Andy Srinivasan. (2017), “Tuning of PID Controller for Reverse Osmosis (RO) Desalination System Using Particle Swarm Optimization (PSO) Technique, International Journal of Control Theory and Applications, 10(39) , 83-92, SJR 0.1,
24. Asuntha, Indrajit Jana, Selvam K, Brindha A, and Andy Srinivasan. (2017), “Reverse Osmosis (RO) desalination system using PID tuning, Research Journal of pharmaceutical, Biological and Chemical Sciences, 8(2), 2572 – 2580.
25. Asuntha, Indrajit Jana, Selvam K, Brindha A, and Andy Srinivasan. (2017), “ Model Reference Adaptive Controller (MRAC) for Reverse Osmosis (RO) desalination system using MIT rule, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 8(2) , 2572 – 2580.
26. Asuntha A, Parveen Banu A, Ainhaviarasi K, Bharath Kumar S, Andy Srinivasan. (2017), “Feature extraction to detect Bone Cancer Using Image Processing”, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 8(3), 434-442.
27. Asuntha. A, Ch.Sowrya, S.Swetha, L.Kuhitha, Andy Srinivasan. (2017), “Non-Linear Control Design of Ball and Beam System”, Research Journal of Pharmaceutical, Biological and Chemical Sciences, 8(3), 618 – 623.
28. M.Pooja Lakshmi, J.M.Sivadharani, B.Swetha Lakshmi, Andy Srinivasan. (2018), ‘A homonized traffic control system in Smart cities’, International journal of modern trends in engineering science, 5(3), 73-76.
29. Andy Srinivasan, W.Sciviya, M.Shobana, M.Shanmuga Sundari, S.Supriya. (2020), “Human Safety in Mining using Wireless Sensor Network”, International Journal of Advance Research and Innovative Ideas in Education, 6.

30. Andy Srinivasan, Adithiya Vikram.V, Ashwin.B, Gokulakrishnan.S, Midhun.K. (2020), "Method of Analysis on Fruits Nutrients", International Journal for Research & Development in Technology, 3(3).
31. Balajiram.V, Bharathwaj.T.A, Dharun Pranesh.K, Kasiraja @ Sathish.P, Andy Srinivasan. (2019), Optical Character Recognition for Visually Impaired People in Shopping Trolley Using Raspberry Pi 3, International Research Journal of Engineering and Management Studies, 3(3), 1-12.
32. Andy Srinivasan, Keerthana.D, Keerthana.M, Lalitha Priya.K. (2019), Voice Based Home Automation using Raspberry Pi and Echo-Dot, International Journal of Engineering Science and Computing, 9(3), 20184-20186.
33. Asuntha A, Andy Srinivasan. (2018), Bone Cancer Detection Using Artificial Neural Network, Indian J.Sci.Res. 17(2), 56-63.
34. Arunraj M, Andy Srinivasan, Vimala Juliet. (2018), "Online Action Recognition from RGB-D cameras based on Reduced Basis Decomposition", MATLAB Programming in Code ocean, <https://doi.org/10.24433/CO.bffdb1e3-f7f0-48ea-a9aa-0202dcba2517>.

Conferences:

1. S.Raja Rajan, Andy Srinivasan, S.Visalakshi. (2014), 'Regenerative Control of DC Drive System', IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), pp. 43-46, **SCOPUS**.
2. Srinivasan A. (2003), 'Non-linear control of isothermal Continuous Stirred Tank Reactor', International conference on emerging technology, India, pp. 232-235.
3. Srinivasan A. and Lakshmi P. (2004), 'Identification of Wiener-type system using relay feedback method', Proceeding of International Conference on Trends in Industrial Measurements and Automation, India, pp. 240-244.
4. Srinivasan A. and Lakshmi P. (2005), 'Identification of Wiener-type system and its application to Heat Exchanger,' National Conference on Process Identification, Control and Diagnosis, India, pp. 262-269.
5. Jenifer.Z and Andy Srinivasan, (2012) 'Real-Time identification and control of inverted pendulum using LABVIEW' International Conference in Magna on Emerging Engineering Trends, ICMEET-2012.
6. V.Vijayalakshmi and Andy Srinivasan, 'Design and implementation of a rotary inverted pendulum using LABVIEW interface', National conference on modeling, simulation and optimization-NCMSO 2012.
7. Vijayalakshmi.V. Jenifer.Z. and Andy Srinivasan (2013), 'Full State feedback Controller Design for a Rotary Inverted pendulum-A Mechatronic Equipment', National Conference on Advances in Electrical Energy Applications(AEEA-2013)-3rd and 4th January 2013.
8. Raja Rajan.S. Andy Srinivasan (2014), 'Regenerative Control of DC Drive System', Proceedings of the National Conference-STRAEE'14, 21st March 2014, pp. 43-45.
9. K.Chithra¹, Dr.Andy Srinivasan², V.Vijayalakshmi³, A.Asuntha⁴, 'PID Controller Tuning in Reverse Osmosis System based on Particle Swarm Optimization', International Conference on Advance Research and Innovation in Engineering, Science, Technology and Management (ICARSM-15), April 4 and 5.
10. K.Chithra¹, Dr.Andy Srinivasan², V.Vijayalakshmi³, 'Model predictive Controller based Reverse Osmosis Process', 2nd National Conference on Emerging trends in Electronics, Instrumentation and Control (EtEIC-2015), 11th April, Chennai, pp. 72-76.
11. K. Lakshmikhandan, Andy Srinivasan, M. Dharani, Enhancement of Power Quality for Electric Vehicle using Transformer-less Hybrid Series Active Filter, International Conference on Recent Advances in Technology, Engineering and Science (ICRATES) Organized by C.Abdul Hakeem College of Engineering and Technology, Vellore, Tamil Nadu, 27th and 28th July 2016.
12. Andy Srinivasan, G.Ajith, M.Ajithkumar, N.Alagappan, V.Vidya, 'Prevention of Pollution from Industries Using Interlocking Technique & IOT', International Conference on Emerging Trends in Science, Engineering & Technology, Jerusalem College of Engineering[ICETSET], Chennai – 600 100, 17th and 18th March 2017.
13. K. Lakshmikhandan, Andy Srinivasan, M. Dharani, Single phase multilevel asymmetrical multilevel inverter with reduced harmonics using 63 level inverter, 3rd national conference on Recent Innovations in Engineering Technology, Management and Applications,(RIETMA-2K17), Vaniyambadi-635751, 7 and 8 April 2017.
14. K. Lakshmikhandan, Andy Srinivasan, M. Dharani, A Single phase 63 level Asymmetrical multilevel inverter with reduced number of swiches, 4th international conference on Engineering and applied sciences, Vandavasi-604 408, 22-24 March 2017.
15. Asuntha A, Andy Srinivasan, Bone Cancer Detection Using Artificial Neural Network, 2nd international conference on recent innovations in engineering and technology, 21 and 22 December 2017, Aurara's scientific, Technological and Research Academy, Hyderabad.

16. Andy Srinivasan, Sowrirajan N., Neural Networks Based Control of Nonlinear Process, International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering, SRM Valliammai Engineering College, 6th September 2019

17. Arunraj M¹*, Andy Srinivasan².(2020), ‘Log and Yeo-Johnson transformation for subject-independent human activity recognition using IMU signals, International conference on , SRM Institute of science and technology, kattankulathur.

Research and Development Details

1. No. of Ph.D. candidates guided/ guiding: 1
2. No. of Ph.D. candidates guiding: 4
3. No of Conferences Convened: 2.
4. Publications in Science Citation Indexed : 3.
5. Publications in Annexure-I of Anna University: 2.
6. Publications in Annexure-II of Anna University: 4.
7. Doctoral Committee Member of Anna University Chennai.
8. Recognised as a Research Supervisor in the Area of Auto tuning, Nonlinear Process Identification and Control Instrumentation of Anna University Chennai and SRM institute of Science and Technology, Kattankulathur.
9. No. of Research Proposals fetched/ sanctioned from Funding Agency: 1 : Fieldbus and DCS workstation, AICTE, Rs. 19,25,000, 2017-2018
10. Department Research Coordination Committee Member (DRCC) of SRM University.
11. Represented the SRM-VEC for NBA-Accreditation during 2013 in New Delhi.

Other Particulars

1. Syllabus Review Sub-Committee Member of M.E-Control and Instrumentation, Regulations-2003, Anna University Chennai.
2. Received “Teaching Award in Engineering” by Education Matters and Staffordshire University, UK.
3. Sports committee member of SRM Valliammai Engineering College.
4. Nodal officer of the Anti-Ragging committee of the SRM Valliammai Engineering College.
5. Attended:

Name of the In-plant Training/ Conference/ Workshop/ Context/ Seminar and FDP	Organisation	Year
Attended 3 weeks in plant training in ISRO SHAR-SPROB centre	@Sriharikota	1998
Attended and Presented paper in the International Conference on Emerging technology. Venue:	@Kalinga Institute of Industrial Technology, Bhubaneswar	2003
Attended and Presented paper in the International Conference on TIMA-04	@IITM	2004
National Conference-NCPICD-2005	@MIT, Cromeppet	2005
FDP on nonlinear Control system	@CEG, AU	2006
AICTE sponsored Training Program Conducted by Indian Heritage Academy Bangalore.	@ CEG AU	2007
7-days FDP on Neural Network and Fuzzy Logic Control.		
2 day workshop on High Voltage Testing Techniques.		
FDP of Process Control	@MIT, Cromeppet	2008
Annual Technical Paper Context by National instruments	@Chennai	2009
National Seminar on Automation System Technology & Tutorial on Advanced Automation conducted by CDAC, Thruvandapuram and Department of Instrumentation, MIT	@MIT Anna University Chennai	2009
Attended 2 day National seminar on automation system		
Attended one day workshop on “Industrial DCS and Field bus”	@Chennai by Yokogawa India Ltd, Chennai-2010	2010

Attended 1 day National seminar on image and video processing	@MIT, Anna University Chennai	2010
Workshop on Outcome based accreditation process and parameters	@SRM university	2012
FDP on DSP	@MIT, Anna University Chennai	2013
2 day FDP on Embedded system	@VEC	2016
2 day FDP on VLSI Design	@VEC	2016
2 day FDP on Communication Engineering	@VEC	2016
2 day FDP on Power Electronics	@VEC	2017
2 day FDP on Electrical Measurements	@VEC	2017
AU Sponsored 7-days FDP on Linear Integrated Circuits	@KCG College of Engineering	2017
2 day FDP on DSP	@VEC	2017
NPTEL course on “Outcome based pedagogic principles for effective teaching”		2017
NPTEL course on “effective Engineering teaching in Practice”		2018
2 day FDP on Industrial Data Networks	@VEC	2018
NPTEL course on “Stress Management”	@VEC	2018

6. Conducted:

FDP/Workshop/Conference	Resource person and Industry/organisation	Number of participants
7 days training cum workshop(2009)	Industrial DCS and Field bus by TATA Honey-Well	66 students and 4 Faculties
1 day training cum workshop on adv. automation system in oil and power sector(2015)	Excel Automation Solutions	90 students
Emerging Trends in Electronics, Instrumentation and Control (EtEIC-2015)	Dr.S.Visalakshi, Andy Srinivasan and 11th April 2015	External:14 Internal : 6 Total : 20
Emerging Trends in Electronics, Instrumentation and Control (EtEIC-2014)	Andy Srinivasan and 3rd May 2014	External:28 Internal : 2 Total : 30
Computer control of Process(2018)	2 days FDP @VEC	2017

7. Expert lecture delivered outside the parent organisation:

Topic	FDP/ Guest lecture	Organisation	Year
Identification and control of nonlinear system using Neural networks in MATLAB		College of Engineering Guindy, Anna University Chennai.	2007
Auto tuning on Non-linear Control system	FDP Program		2006
Recent trends in Power electronic applications in renewable energy system		Adhiparasakthi College of Engineering, GB nagar, Kalavai.	2017
Recent trends in Electrical measurement.	Guest lecturer	Adhiparasakthi College of Engineering, GB nagar, Kalavai.	2017
Teaching Pedagogy-Acceptive and Receptive learning.	Faculty Orientation Program	@VEC	2013
Lectured on topic “Application of Fuzzy logic and Neural Networks controllers”	7-day FDP on Intelligent Control	@CEG Anna University Chennai	2013
Lectured on Process Dynamics	2-days FDP on Process Control	@VEC	2017
Temperature measurement @ Industrial Instrumentation-1	FDP	Jeppiaar Engineering College, Chennai	2019

8. Chair Person of Examinations

EEE-Board Anna University Chennai during 2013-2014
 Anna University Chennai during 2018-2019