Babji Srinivasan

Associate Professor, <u>IIT Madras</u>

LIST OF PUBLICATIONS (LAST FIVE YEARS)

TITLE	CITED BY	YEAR
Other Sites & Tools		2020
M Kodappully, B Srinivasan, R Srinivasan		
CEP		
Dynamic assessment of control room operator's cognitive workload using Electroencephalography (EEG)		2020
MU Iqbal, B Srinivasan, R Srinivasan		
Computers & Chemical Engineering 141, 106726		
Machine learning approach for blockage detection and localization using pressure transients		2020
S Gurav, P Kumar, G Ramshankar, PK Mohapatra, B Srinivasan		
2020 IEEE International Conference on Computing, Power and Communication		
Sensor placement for leak localization in water distribution networks using machine learning		2020
R Madbhavi, A Joshi, S Munikoti, L Das, PK Mohapatra, B Srinivasan		
2020 IEEE International Conference on Computing, Power and Communication		
Measuring smart grid resilience: Methods, challenges and opportunities	2	2020
L Das, S Munikoti, B Natarajan, B Srinivasan		
Renewable and Sustainable Energy Reviews 130, 109918		
La promoción de la inclusión a través de la protección social	1	2020
D Bas		
Inclusión y cohesión social en el marco de la Agenda 2030 para el Desarrollo		
Process control fundamentals: analysis, design, assessment, and diagnosis		2020
R Rengaswamy, B Srinivasan, NP Bhatt		
CRC Press		
IPMS for load sharing, monitoring and diagnosis of electrical loads in AFVs		2020
D Agarwal, S Ramu, M Nagarajan, P Rajappan, J Chinnachamy,		

TITLE	CITED BY	YEA
2020 7th International Conference on Signal Processing and Integrated		
Tensor completion based state estimation in distribution systems	2	202
R Madbhavi, HS Karimi, B Natarajan, B Srinivasan		
2020 IEEE Power & Energy Society Innovative Smart Grid Technologies		
Fault diagnosis and degradation analysis of pmdc motors using fea based models	1	202
D Agarwal, M Kumari, B Srinivasan, P Rajappan, J Chinnachamy		
2020 IEEE International Conference on Power Electronics, Smart Grid and		
Enhanced tensor completion based approaches for state estimation in distribution systems		202
R Madbhavi, B Natarajan, B Srinivasan		
Institute of Electrical and Electronics Engineers		
Development of operational resilience metrics for water distribution systems		202
J Mankad, D Borse, L Das, N Padhiyar, B Srinivasan		
Resilience, Response, and Risk in Water Systems, 19-41		
NeuralCompression: A machine learning approach to compress high frequency measurements in smart grid	1	202
L Das, D Garg, B Srinivasan		
Applied Energy 257, 113966		
Recent developments towards enhancing process safety: Inherent safety and cognitive engineering	6	201
R Srinivasan, B Srinivasan, MU Iqbal, A Nemet, Z Kravanja		
Computers & Chemical Engineering 128, 364-383		
On developing a framework for detection of oscillations in data	4	201
MF Ullah, L Das, S Parmar, R Rengaswamy, B Srinivasan		
ISA transactions 89, 96-112		
Random forest-based robust classification for lithographic hotspot detection		201
R Dawar, S Barai, P Kumar, B Srinivasan, NR Mohapatra		
Journal of Micro/Nanolithography, MEMS, and MOEMS 18 (2), 023501		

	CITED	
TITLE	BY	YEAR
A practical approach to improve alarm system performance: Application to power plant	3	2019
J Sompura, A Joshi, B Srinivasan, R Srinivasan		
Chinese Journal of Chemical Engineering 27 (5), 1094-1102		
Fault detection and isolation in electrical machines using deep neural networks		2019
M Sai, P Upadhyay, B Srinivasan		
Defence Science Journal 69 (3), 249		
Frequency-induced morphology alterations in microconfined biological cells	2	2019
H Banerjee, B Roy, K Chaudhury, B Srinivasan, S Chakraborty, H Ren		
Medical & biological engineering & computing 57 (4), 819-835		
Effect of transformation in compressed sensing of smart grid data	2	2019
A Joshi, L Das, B Natarajan, B Srinivasan		
2019 IEEE PES GTD Grand International Conference and Exposition Asia (GTD		
Data-Driven Approaches for Diagnosis of Incipient Faults in DC Motors	4	2019
S Munikoti, L Das, B Natarajan, B Srinivasan		
IEEE Transactions on Industrial Informatics 15 (9), 5299-5308		
Electroencephalogram based biomarkers for tracking the Cognitive workload of operators in process industries		2019
MU Iqbal, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 46, 1393-1398		
Data driven approaches for diagnosis of incipient faults in DC motors		2019
M Sai, L Das, B Natarajan, B Srinivasan		
Institute of Electrical and Electronics Engineers		
A segmentation approach for oscillation characterization		2018
MF Ullah, L Das, S Parmar, B Srinivasan, R Rengaswamy,		
Sample plan selection techniques for lithography process model building		2018
P Kumar, B Srinivasan, NR Mohapatra		
Journal of Micro/Nanolithography, MEMS, and MOEMS 17 (4), 043501		

TITLE	CITED BY	YEAR
A novel approach for benchmarking and assessing the performance of state estimators		2018
L Das, G Kumar, R Rengaswamy, B Srinivasan		
ISA transactions 80, 137-145		
A framework for efficient information aggregation in smart grid	5	2018
A Joshi, L Das, B Natarajan, B Srinivasan		
IEEE Transactions on Industrial Informatics 15 (4), 2233-2243		
Multiple stages of regression to improve accuracy in calibrated lithography process models	2	2018
P Kumar, AE Rosenbluth, RM Pusuluri, R Viswanathan, B Srinivasan,		
Journal of Micro/Nanolithography, MEMS, and MOEMS 17 (2), 023503		
Toward preventing accidents in process industries by inferring the cognitive state of control room operators through eye tracking	3	2018
L Das, MU Iqbal, P Bhavsar, B Srinivasan, R Srinivasan		
ACS Sustainable Chemistry & Engineering 6 (2), 2517-2528		
An overview of system input & structural parameter's influence on optoelectronic properties in AZO thin films		2018
P Rawat, B Srinivasan, E Panda		
A practical approach to improve the performance of alarm systems in industries: application to combined-cycle power plant		2018
A Joshi, J Sompura, B Srinivasan, R Srinivasan		
Elsevier		
Eye tracking as a tool to enhance operator learning in safety critical domains		2018
P Bhavsar, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 44, 2347-2352		
Process fault detection in heat recovery steam generator using an Artificial Neural Network simplification of a dynamic first principles model	1	2018
P Patil, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 44, 2065-2070		
Towards obviating human errors in real-time through eye tracking	3	2018

TITLE	CITED BY	YE
MU Iqbal, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 43, 1189-1194		
Simulation and analysis of Indian residential electricity consumption using agent-based models	1	2
S Dhar, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 43, 205-210		
Enhancement of energy efficiency at an Indian milk processing plant using exergy analysis	4	2
B Srinivasan, J Pal, R Srinivasan		
Sustainable Energy Technology and Policies, 425-450		
Non-intrusive load monitoring of residential electricity sector using factorial hidden markov mode		2
N Patel, B Srinivasan, R Srinivasan		
Quantifying situation awareness of control room operators using eye-gaze behavior	16	2
P Bhavsar, B Srinivasan, R Srinivasan		
Computers & chemical engineering 106, 191-201		
How Does a Control Room Operator Identify the Process? Insights Using a Cognitive Engineering Approach		2
L Das, B Srinivasan, R Srinivasan		
2017 AIChE Annual Meeting		
A novel approach to evaluate state estimation approaches for anaerobic digester units under modeling uncertainties: Application to an industrial dairy unit	2	2
L Das, G Kumar, MD Rani, B Srinivasan		
Journal of environmental chemical engineering 5 (4), 4004-4013		
Data mining and control loop performance assessment: The multivariate case	8	2
L Das, R Rengaswamy, B Srinivasan		
AlChE Journal 63 (8), 3311-3328		
Fault Diagnosis of Anaerobic Digester System Using Nonlinear State Estimator: Application to India's Largest Dairy Unit		2

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TITLE	CITED BY	YEAR
MD Rani, L Das, B Srinivasan		
Frontiers International Conference on Wastewater Treatment and Modelling		
Study of water reuse opportunities in a large-scale milk processing plant through process integration	19	2017
E Buabeng-Baidoo, N Mafukidze, J Pal, S Tiwari, B Srinivasan, T Majozi,		
Chemical Engineering Research and Design 121, 81-91		
Intelligent power management system with fault detection capabilities for armored fighting vehicles		2017
B Srinivasan		
Indian Institute of Technology Gandhinagar		
Cognitive behavior based framework for operator learning: knowledge and capability assessment through eye tracking		2017
L Das, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 40, 2977-2982		
Lessons learnt from alarm management in a combined-cycle gas turbine power plant		2017
J Sompura, P Shankar, S Gamit, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 40, 2461-2466		
Water conservation, re-use and challenges: a case study performed at Amul dairy	1	2017
S Tiwari, B Srinivasan		
CRC Press		
A multivariate data driven approach for modelling the cognitive behaviour of control room operator using eye tracking		2016
PK Bhavsar, B Srinivasan, R Srinivasan		
Simulation and analysis of power systems using non-intrusive appliance load monitoring		2016
N Patel, B Srinivasan, R Srinivasan		
A critical review of monitoring approaches in anaerobic and aerobic systems: application to anaerobic system in India's largest dairy company		2016
DM Rania, S Tiwaria, A Talatib, B Srinivasana		

TITLE	CITED BY	YEAR
On the detection of valve nonlinearities in otherwise linear closed-loop systems	1	2016
T Spinner, B Srinivasan, R Rengaswamy		
IEEE Transactions on Automatic Control 62 (2), 955-960		
Towards predicting human error: Eye gaze analysis for identification of cognitive steps performed by control room operators	19	2016
M Kodappully, B Srinivasan, R Srinivasan		
Journal of Loss Prevention in the Process Industries 42, 35-46		
Cognitive engineering for process safety: effective training for process operators using eye gaze patterns		2016
K Madhu, B Srinivasan, R Srinivasan		
European Symposium on Computer Aided Process Engineering		
Exploring water reuse opportunities in a large-scale milk processing plant through superstructure optimization		2016
E Buabeng-Baidooa, N Mafukidzea, S Tiwari, B Srinivasan, T Majozia,		
European Symposium on Computer Aided Process Engineering		
Optimal back-off point determination and controller weight selection for multivariate systems under finite-horizon control	3	2016
T Spinner, B Srinivasan, R Rengaswamy		
Journal of Process Control 40, 134-145		
Pupillometry based real-time monitoring of operator's cognitive workload to prevent human error during abnormal situations	20	2016
P Bhavsar, B Srinivasan, R Srinivasan		
Industrial & Engineering Chemistry Research 55 (12), 3372-3382		
Simulation and experimental studies to enhance water reuse and reclamation in India's largest dairy industry	14	2016
S Tiwari, CR Behera, B Srinivasan		
Journal of environmental chemical engineering 4 (1), 605-616		
Eye gaze movement studies of control room operators: A novel approach to improve process safety	26	2016
C Sharma, P Bhavsar, B Srinivasan, R Srinivasan		

TITLE	CITED BY	YEAR
Computers & Chemical Engineering 85, 43-57		
Cognitive Engineering for Process Safety: Effective Training for Process Operators Using Eye Gaze Patterns		2016
M Kodappully, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 38, 2043-2048		
Non-intrusive Appliance Load Monitoring for Electrical Energy Systems Simulation and Analysis–A case study in India	3	2016
N Patel, B Srinivasan, R Srinivasan		
Computer Aided Chemical Engineering 38, 2061-2066		
A novel framework for integrating data mining with control loop performance assessment	9	2016
L Das, B Srinivasan, R Rengaswamy		
AIChE Journal 62 (1), 146-165		
Towards predicting human error: eye gaze analysis for identification of cognitive steps performed by control room operators		2016
K Madhu, B Srinivasan, R Srinivasan		
Elsevier		
Lithography process model building using locally linear embedding	2	2015
P Kumar, AE Rosenbluth, B Srinivasan, R Viswanathan, NR Mohapatra		
2015 International Conference on Simulation of Semiconductor Processes and		
Multivariate control loop performance assessment with Hurst exponent and Mahalanobis distance	13	2015
L Das, B Srinivasan, R Rengaswamy		
IEEE Transactions on Control Systems Technology 24 (3), 1067-1074		
A new measure to improve the reliability of stiction detection techniques	3	2015
B Srinivasan, T Spinner, R Rengaswamy		
Industrial & Engineering Chemistry Research 54 (30), 7476-7488		
Selective transformations between nanoparticle superlattices via the reprogramming of DNA-mediated interactions	94	2015

TITLE	CITED BY	YEAR
Y Zhang, S Pal, B Srinivasan, T Vo, S Kumar, O Gang		
Nature materials 14 (8), 840-847		
On-line performance monitoring of PEM fuel cell using a fast EIS approach	4	2015
L Das, B Srinivasan, R Rengaswamy		
2015 American Control Conference (ACC), 1611-1616		
Model based predictive control for energy efficient biological nitrification process with minimal nitrous oxide production	6	2015
CR Behera, B Srinivasan, K Chandran, V Venkatasubramanian		
Chemical Engineering Journal 268, 300-310		
Fast and accurate lithography simulation using cluster analysis in resist model building	11	2015
P Kumar, B Srinivasan, NR Mohapatra		
Journal of Micro/Nanolithography, MEMS, and MOEMS 14 (2), 023506		
Fiber interrogator for Bragg grating sensors based on cavity ring-down technique	1	2015
S Chopra, L Das, B Srinivasan		
SPIE Digital Library		
Performance monitoring of control room operators through eye gaze analysis		2015
PK Bhavsar, S Parmar, B Srinivasan, R Srinivasan		
AIChE		
Particle self-assembly in lyotropic hexagonal liquid crystals: Effect of particle loading, shape and phase transition kinetics		2015
P Thareja, SV Kulkarni		
Carnegie Mellon University		
A novel control algorithm based DSTATCOM for load compensation		2015
R Sreejith, NM Pindoriya, B Srinivasan		
Journal of Physics: Conference Series 659 (1), 012031		
Event driven multivariate analysis of eye gaze data for behavior analysis in process operations		2015
K Madhu, B Srinivasan, R Srinivasan		

On-line performance monitoring and control of the PEM fuel cell using a fast EIS approach L Das, B Srinivasan, R Rengaswamy American Automatic Control Council Structural similarities and differences between smart grids and process industry supply chains: India case study N Patel, R Abhinav, B Srinivasan, R Srinivasan Computer Aided Chemical Engineering 37, 2387-2392 An integrated approach for oscillation diagnosis in linear closed loop systems 9 201 B Srinivasan, U Nallasivam, R Rengaswamy Chemical Engineering Research and Design 93, 483-495 Data-based automated diagnosis and iterative retuning of proportional-integral (PI) controllers 1 Spinner, B Srinivasan, R Rengaswamy Control Engineering Practice 29, 23-41 Data driven approach for performance assessment of linear and nonlinear Kalman filters 7 201 L Das, B Srinivasan, R Rengaswamy 2014 American Control Conference, 4127-4132 Detection of stiction in interacting systems using a hammerstein model approach R Rengaswamy, B Srinivasan, T Spinner ADCONIP 2014 An approach to identify the cognitive load on the operator using pupillometry information C Shama, B Srinivasan, R Srinivasan IIT Gandhinagar Cognitive studies in process control using eye gaze tracking information 201	TITLE	CITED BY	YEA
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Cognitive studies in process control using eye gaze tracking information 201	C Sharma, B Srinivasan, R Srinivasan		
	IIT Gandhinagar		
C Sharma, PK Bhavsar, B Srinivasan, R Srinivasan	Cognitive studies in process control using eye gaze tracking information		201
	C Sharma, PK Bhavsar, B Srinivasan, R Srinivasan		

TITLE	CITED BY	YEAR
Towards the development of an operator Cognitive assessment model for process control applications		2014
K Madhu, B Srinivasan, R Srinivasan		
IIT Gandhinagar		
Understanding cognitive behavior of process operators during abnormal situations through eye tracker studies	1	2014
C Sharma, PK Bhavsar, B Srinivasan, R Srinivasan		
AICHE		
Detection of Stiction in Interacting Systems using a Hammerstein Model Approach	2	2014
T Spinner, B Srinivasan, R Rengaswamy		
International Symposium on Advanced Control of Chemical Processes		

Process model accuracy enhancement using cluster based approach

P Kumar, S Barai, B Srinivasan, NR Mohapatra

Physics of Semiconductor Devices, 33-36