

**PUBLICATION LIST**  
**BABJI SRINIVASAN**

**PEER REVIEWED INTERNATIONAL JOURNAL ARTICLES**

- J1.M. Sai<sup>#</sup>, Das, L<sup>#</sup>, B. Natarajan & **Srinivasan, B\***. (2018). Data Driven Approaches for Diagnosis of Incipient Faults in Electric Motors. *IEEE Transactions on Industrial Informatics*. . Impact Factor: 5.43. [10.1109/TII.2019.2895132](https://doi.org/10.1109/TII.2019.2895132)
- J2.Sompura, J., Joshi, A., **Srinivasan, B\***, & Srinivasan, R\*. (2018). A practical approach to improve alarm system performance: Application to power plant. *Chinese Journal of Chemical Engineering*.
- J3.Kumar, P., **Srinivasan, B.**, & Mohapatra, N. R. (2018). Sample plan selection techniques for lithography process model building. *Journal of Micro/Nanolithography, MEMS, and MOEMS*, 17(4), 043501.
- J4.Banerjee, H., Roy, B., Chaudhury, K., **Srinivasan, B.**, Chakraborty, S., & Ren, H. (2018). Frequency-induced morphology alterations in microconfined biological cells. *Medical & biological engineering & computing*, 1-17.
- J5.Ullah, M. F., Das, L., Parmar, S., Rengaswamy, R., & **Srinivasan, Babji\***. (2019). On developing a framework for detection of oscillations in data. *ISA transactions*.
- J6.A. Joshi, <sup>#</sup>Das, L<sup>#</sup>, B. Natarajan & **Srinivasan, B\***. (2018). A Framework for Efficient Information Aggregation in Smart Grid. *IEEE Transactions on Industrial Informatics*. Impact Factor: 5.43. [10.1109/TII.2018.2866302](https://doi.org/10.1109/TII.2018.2866302)
- J7.Das, L<sup>#</sup>, Kumar, G.<sup>#</sup>, Rengaswamy, R., & **Srinivasan, B\***. (2018). A novel approach for benchmarking and assessing the performance of state estimators. *ISA transactions*. Impact Factor: 3.37 DOI: <https://doi.org/10.1016/j.isatra.2018.06.005>
- J8.Das, Laya<sup>#</sup>; Mohammed, Umair<sup>#</sup> Bhavsar, Punit<sup>#</sup>; **Srinivasan, Babji\*** and Srinivasan, R, "Towards Preventing Accidents in Process Industries by Inferring the Cognitive State of Control Room Operators through Eye Tracking", *ACS sustainable chemistry and engineering* 6(2), 2517-2528.. Impact Factor: 6.14
- J9.Das, L., Kumar<sup>#</sup>, G., Rani, M. D.<sup>#</sup>, & **Srinivasan, Babji\***. A novel approach to evaluate state estimation approaches for anaerobic digester units under modeling uncertainties: Application to an industrial dairy unit. *Journal of Environmental Chemical Engineering*, 5(4), 4004-4013, 2017. Impact Factor: 1.385
- J10. Bhavsar, Punitkumar<sup>#</sup>; **Srinivasan, Babji\*** and Srinivasan, R, "Quantifying situation awareness of control room operators using eye-gaze behavior", *Computers & Chemical Engineering*, vol. 106, pp. 191-201, Nov. 2017. Impact Factor: 2.784
- J11. Buabeng-Baidoo, Esther; Mafukidze, Nielsen; Pal, Jaideep<sup>#</sup>; Tiwari, Sarojini<sup>#</sup>; **Srinivasan, Babji**; Majozi, Thokozani and Srinivasan, Rajagopalan, "Study of water reuse opportunities in a large-scale milk processing plant through process integration", *Chemical Engineering Research and Design*, DOI: 10.1016/j.cherd.2017.02.031, vol. 121, pp. 81-91, May 2017. Impact Factor: 2.795

- J12. Das, Laya<sup>#</sup>; Rengaswamy, R and **Srinivasan, Babji\***, "Data Mining and Control Loop Performance Assessment: The Multivariate Case", *AChE*, DOI: 10.1002/aic.15689, Feb. 2017. *Impact Factor: 2.748*
- J13. Spinner, Tim; **Srinivasan, Babji** and Rengaswamy, R, "On the detection of valve nonlinearities in otherwise linear closed-loop systems", *IEEE Transactions on Automatic Control*, DOI: 10.1109/TAC.2016.2592690, vol. 62, no. 2, pp. 955-960, Feb. 2017.
- J14. Bhavsar, Punitkumar<sup>#</sup>; **Srinivasan, Babji\*** and Srinivasan, R, "Pupillometry based real-time monitoring of operator's cognitive workload to prevent human error during abnormal situations", *Industrial & Engineering Chemistry Research*, DOI: 10.1021/acs.iecr.5b03685, vol. 55, no. 12, pp. 3372–3382, Mar. 2016.
- J15. Spinner, Tim; **Babji Srinivasan** and Rengaswamy, R, "On the detection of valve nonlinearities in otherwise linear control loops", *IEEE Transactions on Automatic Control*, 2016.. *Impact Factor: 2.779*
- J16. Spinner, Tim; **Babji Srinivasan** and Rengaswamy, R, "Optimal back-off point determination and controller weight selection for multivariate systems under finite-horizon control", *Journal of Process Control*, 2016.. *Impact Factor: 2.653*
- J17. Tiwari, Sarojini<sup>#</sup>, Chitta Ranjan Behera<sup>#</sup>, and **Babji Srinivasan\***. "Simulation and experimental studies to enhance water reuse and reclamation in India's largest dairy industry." *Journal of Environmental Chemical Engineering* DOI: 10.1016/j.jece.2015.12.001 vol. 4, no. 1, pp. 605-616, Mar. 2016
- J18. Sharma, Chandresh<sup>#</sup>; Bhavsar, Punit<sup>#</sup>; **Babji Srinivasan\*** and Srinivasan, Rajagopalan, "Eye gaze movement studies of control room operators: a novel approach to improve process safety", *Computers & Chemical Engineering*, DOI: 10.1016/j.compchemeng.2015.09.012, vol. 85, pp. 43-57, Feb. 2016. *Impact Factor: 2.784*
- J19. Das, Laya<sup>#</sup>; **Babji Srinivasan\***, and Rengaswamy, R, "Multivariate control loop performance assessment with Hurst exponent and Mahalanobis distance", *IEEE Transactions on Control Systems Technology*, DOI: 10.1109/TCST.2015.2468087, no. 99, Sep. 2015. *Impact Factor: 2.474*
- J20. Sharma, Chandresh<sup>#</sup>; Bhavsar, Punit<sup>#</sup>; **Srinivasan, Babji\*** and Srinivasan, R, "Eye gaze movement studies of control room operators: a novel approach to improve process safety", *Computers & Chemical Engineering*, DOI: 10.1016/j.compchemeng.2015.09.012, Oct. 2015. *Impact Factor: 2.784*
- J21. Das, Laya<sup>#</sup>; **Srinivasan, Babji\*** and Rengaswamy, R, "A novel framework for integrating data mining with control loop performance assessment", *AChE Journal*, DOI:10.1002/aic.15042, Sep. 2015 *Impact Factor: 2.748*
- J22. Das, Laya<sup>#</sup>; **Srinivasan, Babji\*** and Rengaswamy, R, "Multivariate control loop performance assessment with Hurst exponent and Mahalanobis distance", *IEEE Transactions on Control Systems Technology*, DOI: 10.1109/TCST.2015.2468087, no. 99, Sep. 2015. *Impact Factor: 2.474*
- J23. Madhu, K.<sup>#</sup>; **Srinivasan, Babji\*** and Srinivasan, R, "Towards predicting human error: eye gaze analysis for identification of cognitive steps performed by control room operators", *Journal of Loss Prevention in the Process Industries*, DOI:10.1016/j.jlp.2015.07.001, Jul. 2015. *Impact Factor: 1.406*

- J24. **Srinivasan, Babji\***; Spinner, Tim and Rengaswamy, Raghunathan, "A new measure to improve the reliability of stiction detection techniques", *Industrial and Engineering Chemistry Research*, DOI: 10.1021/acs.iecr.5b00939, Jul. 2015. *Impact Factor: 2.206*
- J25. Kumar; Pardeep#; **Srinivasan; Babji\*** and Mohapatra, N., "Fast and accurate lithography simulation using cluster analysis in resist model building", *Journal of Micro/Nanolithography, MEMS, and MOEMS*, DOI: 10.1117/1.JMM.14.2.023506, vol. 14, no. 2, May 2015. *Impact Factor: 1.230*
- J26. Zhang, Yugang; Pal, Suchetan; **Srinivasan, Babji**; Vo, Thi; Kumar, Sanat and Gang, Oleg, "Selective transformations between nanoparticle superlattices via the reprogramming of DNA-mediated interactions", *Nature Materials*, DOI: 10.1038/nmat4296, May 2015. *Impact Factor: 36.4*
- J27. Vo, Thi; Venkatasubramanian, Venkat; Kumar, Sanat; **Srinivasan, Babji**; Pal, Suchetan; Zhang, Yugang and Gang, Oleg, "Stoichiometric control of DNA-grafted colloid self-assembly", *Proceedings of the National Academy of Sciences of the United States of America. (PNAS)*, DOI: 10.1073/pnas.1420907112, vol. 112, no. 16, pp. 4982-4987, Mar. 2015. *Impact Factor: 9.737*
- J28. Behera, Chitta Ranjan#; **Srinivasan, Babji\***; Chandran, K and Venkatasubramanian, V, "Model based predictive control for energy efficient biological nitrification process with minimal nitrous oxide production", *Chemical Engineering journal*, DOI:10.1016/j.cej.2015.01.044, Jan. 2015. *Impact Factor: 4.058*
- J29. **Srinivasan, Babji\***; Nallasivam, Ulaganathan and Rengaswamy, Raghunathan, "An integrated approach for oscillation diagnosis in linear closed loop systems", *Chemical Engineering Research and Design* DOI: 10.1016/j.cherd.2014.07.004, vol. 93, pp. 483-495, Jan. 2015. *Impact Factor: 2.281*
- J30. T. Spinner, **Babji Srinivasan**, R. Rengaswamy, Data-Based Automated Diagnosis and Iterative Retuning of Proportional-Integral (PI) Controllers, *Control Engineering Practice*. Vol 29, Pg: 23-41, 2014. *Impact Factor: 1.669*
- J31. **Babji Srinivasan**, T. Vo, Z. Yugang, O. Gang, S. Kumar, V. Venkatasubramanian , Designing of DNA grafted particles that self-assemble into desired crystalline structures using the genetic algorithm, *PNAS (Proceedings of National Academy of Sciences)*, accepted for publication, 2013 *Impact Factor: 9.737*.
- J32. **Babji Srinivasan**, T. Spinner, R. Rengaswamy, Control loop performance assessment using Detrended Fluctuation Analysis, *Automatica*, 48(7), pp 1359 -1363, 2012. *Impact Factor: 2.919*
- J33. **Babji Srinivasan**, U. Nallasivam, R. Rengaswamy. Root cause analysis of linear oscillatory closed loop systems, *Industrial Engineering and Chemistry Research*, 51(42), pp 13712-13720, 2012. *Impact Factor: 2.206*
- J34. **Babji Srinivasan**, R. Rengaswamy. Automatic oscillation detection and characterization in closed loop systems, *Control Engineering Practice*, 20(8), pp 733-746, 2012. *Impact Factor: 1.669*
- J35. M. Jeevan, **Babji Srinivasan**, B. Swastika, S.A. Vanapalli and R. Rengaswamy. Design of a model-based feedback controller for active sorting and synchronization of droplets in a

- microfluidic loop, *AIChE*, 58(7), pp 2120 - 2130, 2011. *Impact Factor: 2.493*
- J36. U. Nallasivam, **Babji Srinivasan** K. Vidyashankar, N.M. Karim, R. Rengaswamy. Computationally efficient identification of Global ARX parameters with Guaranteed Stability, *IEEE transactions on Automatic Control*, 56(6), pp 1406-1411, 2011. *Impact Factor: 2.718*
- J37. S. Subramanian, **Babji Srinivasan**, J. Zhao, R. Rengaswamy, G.B. Mckenna. Application of Empirical mode decomposition in the field of Polymer Physics, *Journal of Polymer Science – Part B*, 49, pp 277-290, 2011. *Impact Factor: 1.53*
- J38. U. Nallasivam, **Babji Srinivasan**, R. Rengaswamy. Stiction identification in nonlinear control loops, *Computers & Chemical Engineering*, 34 (11), pp 1890-1898, 2010. *Impact Factor: 2.367*
- J39. K. Villez, **Babji Srinivasan**, R. Rengaswamy, S. Narasimhan, V. Venkatasubramanian. Resilient Control in view of valve stiction: Extension of Kalman based FTC, *Computers & Chemical Engineering*, 28, pp 547-552, 2010. *Impact Factor: 2.367*
- J40. **Babji Srinivasan**, A.K. Tangirala. Source separation in systems with correlated sources using NMF, *Journal of Digital system processing*, 20(2), pp 417-432, 2010. *Impact Factor: 1.918*
- J41. **Babji Srinivasan**, A K. Tangirala.. Time delay estimation in closed-loop processes using Average Mutual Information theory, *Control and intelligent systems*, 37(3), pp 176-182, 2009. *Impact Factor: 0.5*
- J42. **Babji Srinivasan**, P. Gorai, A.K. Tangirala. Detection and Quantification of valve stiction using Hilbert-Huang Transform , *Journal of Adaptive Data Analysis*, 1(3), pp 425-446, 2009.

#### **CONTRIBUTED (NON-INVITED) PAPERS/ABSTRACTS IN PUBLISHED CONFERENCE PROCEEDINGS:**

- C1. Bhavsar, P<sup>#</sup>, **Srinivasan, B<sup>\*</sup>**, & Srinivasan, R. (2018). Eye tracking as a tool to enhance operator learning in safety critical domains. In *Computer Aided Chemical Engineering*(Vol. 44, pp. 2347-2352). Elsevier.
- C2. Patil, P<sup>#</sup>, **Srinivasan, B<sup>\*</sup>**, & Srinivasan, R. (2018). Process fault detection in heat recovery steam generator using an Artificial Neural Network simplification of a dynamic first principles model. In *Computer Aided Chemical Engineering* (Vol. 44, pp. 2065-2070). Elsevier.
- C3. Iqbal, M. U.<sup>#</sup>, **Srinivasan, B.<sup>\*</sup>** & Srinivasan, R. (2018). Towards obviating human errors in real-time through eye tracking. In *Computer Aided Chemical Engineering* (Vol. 43, pp. 1189-1194). Elsevier.
- C4. Sompura, Jay<sup>#</sup>; Patil, Parag S<sup>#</sup>; **Srinivasan, Babji<sup>\*</sup>** and Srinivasan, R, "Lessons learnt from alarm management in a combined-cycle gas turbine power plant", in *the 27th European Symposium Computer Aided Process Engineering (ESCAPE)*, Barcelona, ES, Oct. 1-5, 2017.
- C5. Das, Laya<sup>#</sup>; **Srinivasan, Babji** and Srinivasan, R., "Cognitive behavior based framework for

- operator learning: knowledge and capability assessment through eye tracking", in *the 27th European Symposium Computer Aided Process Engineering (ESCAPE)*, Barcelona, ES, Oct. 1-5, 2017.
- C6. Rani, Mallavarappu Deepika<sup>#</sup>; Das, Laya<sup>#</sup> and **Srinivasan, Babji**, "Fault diagnosis Of anaerobic digester system using nonlinear state estimator: application to India's largest dairy unit", in *the Frontiers International conference Wastewater Treatment and Modeling*, Palermo, IT, May 21–24, 2017.
- C7. Patel, Nikita<sup>#</sup>; **Babji Srinivasan** \* " Non-intrusive Appliance Load Monitoring for Electric Energy Systems Simulation and Analysis – A case study in India", in the ESCAPE26 Conference, in Portoroz, Slovenia, June 12-June 15, 2016.
- C8. Madhu K<sup>#</sup>; **Babji Srinivasan**\* and Srinivasan, R," Cognitive Engineering for Process Safety: Effective Training for Process Operators using Eye Gaze Patterns", in the ESCAPE26 Conference, accepted for presentation in Portoroz, Slovenia, June 12-June 15, 2016.
- C9. Sreejith, R.<sup>#</sup>; Pindoriya, Naran and **Srinivasan, Babji**\*, "A novel control algorithm based DSTATCOM for load compensation", in *the 12th European Workshop on Advanced Control and Diagnosis (ACD2015)*, University of West Bohemia, Pilsen, CZ, Nov. 19-20, 2015.
- C10. Das, Laya<sup>#</sup>; **Srinivasan, Babji**\* and Rengaswamy, R, "On-line performance monitoring and control of the PEM fuel cell using a fast EIS approach", in *the 2015 American Control Conference*, Hilton Palmer House, Chicago, US, Jul. 1-3, 2015.
- C11. Patel, Nikita; Abhinav, Rishabh; **Srinivasan, Babji**\* and Srinivasan, R,"Structural similarities and differences between smart grids and process industry supply chains: India case study", in *the PSE2015/ESCAPE25 Conference*, Copenhagen, DK, May 31-Jun. 4, 2015.
- C12. **Srinivasan, Babji**\* and Tiwari, Sarojini<sup>#</sup>, "Modeling and optimization of effluent treatment plant in a dairy industry for water reuse", in *the WEF-EESS Asia-Pacific, Wastewater Treatment and Reuse Conference 2015*, Singapore, SG, Jun. 28 - Jul. 1, 2015
- C13. Vo, Thi; Venkatasubramanian, Venkat; Kumar, Sanat; **Srinivasan, Babji**; Pal, Suchetan; Zhang, Yugang and Gang, Oleg, "Stoichiometric control of DNA-grafted colloid self-assembly", in *the APS March Meeting 2015*, American Physical Society, San Antonio, Texas, US, Mar. 2-6, 2015.
- C14. Das, Laya<sup>#</sup>; **Srinivasan, Babji**\* and Rengaswamy, R, "Data driven approach for performance assessment of linear and nonlinear Kalman filters", in *the 2014 American Control Conference*, Portland, US, Jun. 4-6, 2014.
- C15. Madhu, K<sup>#</sup>; **Srinivasan, Babji**\* and Srinivasan, R, "Towards the development of an operator Cognitive assessment model for process control applications", in *the 2nd International Conference on Safety*, IIT Gandhinagar, IN, Dec. 2-4, 2014.
- C16. Sharma, C<sup>#</sup>.; Bhavsar, Punitkumar Kanubhai<sup>#</sup>; **Srinivasan, Babji**\* and Srinivasan, R, "Cognitive studies in process control using eye gaze tracking information", in *the 2nd International Conference on Safety*, IIT Gandhinagar, IN, Dec. 2-4, 2014.
- C17. ChittaRanjan Behera, **Babji Srinivasan**\* K. Chandran, V. Venkatasubramanian. A Reliability Measure for Model Based Stiction Detection Approaches, accepted for presentation

in ICAER, IIT-Bombay 2013. Corresponding Author, Complete work done at IITGn

- C18. Laya Das, **Babji Srinivasan\***, R. Rengaswamy. Data driven approach for performance assessment of linear and nonlinear Kalman filters, ACC (American Control Conference), 2014, Portland USA. Corresponding Author, Complete work done at IITGn
- C19. Chandresh Sharma,# PunitKumar#, **Babji Srinivasan\***, R. Srinivasan, Understanding cognitive behavior of process operator during abnormal situation through eye tracker studies, AICHE Annual Conference, 2014.
- C20. T. Spinner, **Babji Srinivasan**, R. Rengaswamy. Detection of Stiction in Interacting Systems using a Hammerstein Model Approach. ADCONIP 2014 May 28 – 30, Hiroshima, Japan
- C21. Pardeep Kumar#, Samit Barai, **Babji Srinivasan**, Nihar Mohapatra. Cluster Based Process Models for Full-Chip Resist Simulation", IWPSD 2013, Delhi
- C22. Hritwick Banerjee#, **Babji Srinivasan\***, Modelling, optimization and control of droplet based microfluidic technology for single-cell high-throughput screening. Microfluidics & Lab on a Chip Conference , Bangalore, India
- C23. Thi Vo, **Babji Srinivasan**, Sanat Kumar, Oleg Gang and Venkat Venkatasubramanian Quantitative Modeling of DNA Grafted Nanoparticle Self-Assembly, AICHE Annual Conference 2013
- C24. **Babji Srinivasan**, T. Spinner, R. Rengaswamy. A Reliability Measure for Model Based Stiction Detection approaches. , In Proceedings of the 8th IFAC Symp. on Adv. Con. of Chem. Proc. Singapore
- C25. **Babji Srinivasan**, U. Nallasivam, R. Rengaswamy. Diagnosis of root cause for oscillations in closed-loop chemical process systems. IFAC, 2011, Milano, Italy.
- C26. **Babji Srinivasan**, U. Nallasivam, R. Rengaswamy. Multiple root cause analysis of linear oscillatory closed-loop single-input single-output systems. ADCONIP, May 23-26, 2011 Hangzhou, China.
- C27. U. Nallasivam, **Babji Srinivasan**, R. Rengaswamy. Stiction identification in nonlinear process control loops. ADCHEM, July 12 – 15, 2009, Istanbul, Turkey.
- C28. **Babji Srinivasan**, A. K. Tangirala. Issues in spectral source separation techniques for plant-wide oscillation, International conference on signal and image processing, September 24 – 26, 2008, Heidelberg, Germany.
- C29. **Babji Srinivasan**, A. Gupta, A. K. Tangirala. Source separation in multivariate interacting systems using Non negative matrix factorization, Signal processing, Communication, Control and Instrumentation, January 3 – 5, 2008, Pune, India.
- C30. **Babji Srinivasan**, P. Gorai K. Tangirala. Detection of Nonlinearities in processes using Hilbert-Huang Transform, National Conference of Frontiers in Chemical Engineering, December 12 – 14, 2007, IIT - Guwahati, India.

## **BOOK CHAPTERS**

- B1. **Srinivasan, B.**, Pal, J., & Srinivasan, R. (2018). Enhancement of energy efficiency at an Indian milk processing plant using exergy analysis. In *Sustainable Energy Technology and Policies* (pp. 425-450). Springer, Singapore.
- B2. Rani, Mallavarappu Deepika#; Das, Laya# and **Srinivasan, Babji\***, "Fault diagnosis of anaerobic digester system using nonlinear state estimator: application to India's largest dairy unit", in *Lecture Notes in Civil Engineering*, DOI: 10.1007/978-3-319-58421-8\_43, vol. 4, Springer International Publishing, 2017, pp. 272-277, ISBN: 978-3-319-58421-8.
- B3. Tiwari, Sarojini# and **Srinivasan, Babji\***, "Water conservation, re-use and challenges: a case study performed at Amul dairy", in *The water-food-energy nexus: processes, technologies and challenges*, CRC Press, 2017, ISBN: 9781498760836.

## **CONTRIBUTED (NON-INVITED) PAPERS/ABSTRACTS AT CONFERENCES: -**

1. Bhavsar, Punitkumar Kanubhai#; Parmar, Sweta#; **Srinivasan, Babji\*** and Srinivasan, R, "Attention aware systems in process control rooms through real-time pupillometry", in the AIChE Annual Meeting, Salt Lake City, US, Nov. 8-13, 2015.
2. Bhavsar, Punitkumar Kanubhai#; **Srinivasan, Babji\*** and Srinivasan, R, "Performance Monitoring of Control Room Operators through Eye Gaze Analysis", in the AIChE Annual Meeting, Salt Lake City, US, Nov. 8-13, 2015.
3. Madhu Kodapully#; **Srinivasan, Babji\*** and Srinivasan, R, "Event Driven Multivariate Analysis of Eye Gaze Data for Behavior Analysis in Process Operations", in the AIChE Annual Meeting, Salt Lake City, US, Nov. 8-13, 2015.
4. Sharma, C.#; Bhavsar, Punitkumar Kanubhai#; **Srinivasan, Babji\*** and Srinivasan, R\*, "Understanding Cognitive behavior of process operators during abnormal situations through eye tracker studies", in the AIChE Annual Meeting, Atlanta, US, Nov. 16-21, 2014.
5. Thi Vo, **Babji Srinivasan**, Sanat Kumar, Oleg Gang and Venkat Venkatasubramanian " Quantitative Modeling of DNA Grafted Nanoparticle Self-Assembly" - Status - Accepted in Annual Meeting of AIChE 2013, San Fransisco, CA, USA
6. Hritwick Banerjee, **Babji Srinivasan**, Modelling, optimization and control of droplet based microfluidic technology for single-cell high-throughput screening Microfluidics & Lab on a Chip Conference , Bangalore, India.
7. **Babji Srinivasan**, K. Chandran, V. Venkatasubramanian. Multiple neural network model predictive control for BNR in waste water treatment plants. Annual meeting of AIChE, Pittsburgh October 28 - November 2, 2012
8. G. Greeshma, **Babji Srinivasan**, A.H. Park, V. Venkatasubramanian. A Hybrid model based HAZOP analysis of Geological sequestration of Carbon dioxide (**Best Paper Of the Session & invited for publication in AIChE**) Annual meeting of AIChE, Pittsburgh October 28 - November 2, 2012

9. B. Swastika, **Babji Srinivasan**, M. Jeevan, R. Rengaswamy, S.A. Vanapalli. Experimental and Simulation Studies of Nonlinear Dynamics of Droplets in a Microfluidic Loop Device. Annual meeting of AIChE, November 7-12, 2010, Salt lake city, USA.
10. **Babji Srinivasan**, U. Nallasivam and R. Rengaswamy. Diagnosis of Source of Oscillations in Linear Closed-Loop Chemical Processes. Annual meeting of AIChE, November 7-12, 2010, Salt lake city, USA.
11. **Babji Srinivasan**, U. Nallasivam and R. Rengaswamy. Detection of valve stiction in closed-loop nonlinear systems using Volterra and stable AR model identification. Annual meeting of AIChE, November 8-13, 2009, Nashville, USA.