Curriculum Vitae

Yoshiyuki Yamashita

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Head of Process Systems Engineering Laboratory
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Education

- B.S., Chemical Engineering, Tohoku University, Japan, 1982
- M.S., Chemical Engineering, Tohoku University, Japan, 1984
- Ph.D., Chemical Engineering, Tohoku University, Japan, 1987

Employment

- Assistant Professor, Tohoku University, 1987 – 1992
- Associate Professor, Tohoku University, 1992 – 2007
- Visiting Professor, OHIO State University, USA, 1994 – 1995
- Visiting Professor, Universiti Teknologi Malaysia (UTM), 2011 and 2016
- Professor, Tokyo University of Agriculture and Technology, 2007 – present

Awards and Honors

- Young Investigator Award, Society of Chemical Engineers (SCEJ), Japan, 1993
- Outstanding Paper Award of 2000 & 2008, Journal of Chemical Engineering of Japan, 2000 & 2008
- SICE Certified Engineer, The Society of Instrument and Control Engineers, 2007
- Director, Society of Instrument and Control Engineers, Japan, 2006 – 2008
- Editor-in-Chief, Journal of Chemical Engineering of Japan, 2009 – 2011
- Chair, Systems, Information & Simulation Technologies Division, SCEJ, 2012 – 2013
- Director, Society of Chemical Engineers, Japan, 2013 – 2015
- President, Virtual Engineering Community (VEC), 2014 – present
- Chairman, 143rd University-Industry Cooperative Research Committee (Process Systems Engineering), Japan Society for the promotion of science, 2016 – present
- Chair, AI/IoT Committee, Society of Chemical Engineers, Japan, 2018– present

Research Interests

- Process Systems Engineering
- Smart Manufacturing
- Process Control and Monitoring
- Time-series Analysis and Artificial Intelligence Applications

Short List of Selected Publications

1) H. Takeda and Y. Yamashita, “Process Identification and Design of Robust PI Controller for a Self-oscillating Integral Process with Dead Time,” *J. Chem. Eng. Japan*, **52**, 447-454 (2019)
2) T. Taguchi and Y. Yamashita, “A Hybrid Approach for Process Optimization of Distillation Reflux Condition using First Principle Models and Least Squares Regression,” *Computer Aided Chem. Eng.*, **44**, 229-234 (2018)
3) K. Inagaki and Y. Yamashita, “Real-time monitoring of saccharide concentrations in simulated moving-bed chromatography,” *J. Chem. Eng. Japan*, **50**, 136-141 (2017)
4) H. Tanatavikorn and Y. Yamashita, “Batch Process Monitoring based on Fuzzy Segmentation of Multivariate Time-Series,” *J. Chem. Eng. Japan*, **50**, 29-36 (2017)
5) M.S.M. Sarip, Y. Yamashita, *et al*., “Modeling and optimization of the hot compressed water extraction of palm oil using artificial neural network,” *J. Chem. Eng. Japan*, **49**, 614-621 (2016)
6) Y. Yamashita and K. Sasagawa, “Co-learning with locally weighted PLS for soft sensors of nonlinear processes,” 5th AdCONIP, Hiroshima, May (2014)
7) J. Kon, Y. Yamashita, *et al*., “Practical application of model identification based on ARX models with transfer functions,” *Control Eng. Practice*, **21**, 195-203 (2013)
8) Y. Yamashita, “Semi-qualitative Trend Analysis for the Monitoring of Process Control Loops,” *J. Adv. Comput. Intell. & Intell. Informatics*, **16**, 503-507 (2012)
9) Y. Yamashita, “Knowledge-based attributes generation for data-driveen fault diagnosis in process systems,” Computer Aided Chem. Eng., **31**, 310-314 (2012)
10) Y. Yamashita, "An Automatic Method for Detection of Valve Stiction in Process Control Loops," *Control Eng. Practice*, **14,** 503-510 (2006)
11) Y. Yamashita, “A Clustered Class Distribution Approach for Process Monitoring and Fault Detection,” *Chem. Eng.Commun.*, **191**, 302-313 (2004)
12) Y. Yamashita, "Supervised Learning for the Analysis of Process Operational Data," *Computers & Chemical Engineering*, **24S**, 471-474 (2000)

Professional Activities

- International Program Committee of PSE2006, PSE2012, PSE2018, ESCAPE27, ESCAPE28, PSE2006/ESCAPE16, PSE2015/ESCAPE21, AdCONIP2014, AdCONIP2017 and others.
- Chair, International Program Committee of PSE Asia 2016, Tokyo
- General Chairs, PSE 2021 symposium, Kyoto
- Member of AIChE, IEEE, SCEJ, SICE and others.