

Curriculum Vitae

Yoshiyuki Yamashita

Professor, Dr.

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Education

- B.S., Chemical Engineering, Tohoku University, Japan, 1982
(Thesis title: Dynamic Behavior on a Perforated Tray)
- M.S., Chemical Engineering, Tohoku University, Japan, 1984
(Thesis title: Nonlinear Oscillatory Behavior of a Catalytic Reactor)
- Ph.D., Chemical Engineering, Tohoku University, Japan, 1987
(Thesis title: Qualitative Characteristics and Control of Chemical Processes)

Employment

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

Awards and Honors

- Young Investigator Award, Society of Chemical Engineers (SCEJ), Japan, 1993
- Outstanding Paper Award of 2000, Journal of Chemical Engineering of Japan, 2000
- SICE Certified Measurement and Control Engineer, The Society of Instrument and Control Engineers (SICE), 2007
- Outstanding Paper Award of 2008, Journal of Chemical Engineering of Japan, 2008
- Director, SICE, 2006 – 2008
- Chair, Research committee on Dependable Control Systems, SICE, 2009 – 2010
- Editor-in-Chief, Journal of Chemical Engineering of Japan, 2009 – 2011
- Chair, IT Education division, Society of Chemical Engineers, Japan, 2010 – present

- Chair, Systems, Information and Simulation (SIS) Division, SCEJ, 2012 – 2014
- Chief Information Officer and Director, SCEJ, 2013 – 2015
- Best Reviewer Award, Journal of Chemical Engineering of Japan, 2015 and 2016
- Chair of the International Program Committee, PSE Asia, Tokyo, 2016
- Chair of the JSPS process systems engineering committee, 2016 – 2022
- President, Virtual Engineering Community, 2014 – present
- Excellent Poster Award, APCChE 2019, Sapporo, 2019
- Outstanding Paper Award of 2019, Journal of Chemical Engineering of Japan, 2020
- SIS Division Technology Award, SCEJ, 2020
- Outstanding Paper Award of 2020, Journal of Chemical Engineering of Japan, 2021
- SIS Division Technology Award, SCEJ, 2022
- Chair, PSE community, SIS, SCEJ, 2022 – present
- Vice President, SICE, 2022 – present
- General Chair of the PSE 2021+ symposium, Kyoto, 2022

Selected list of recent publications

1. Masaharu Daiguji and Yoshiyuki Yamashita, “An approach for Stiction Compensation in Industrial Process Control Valves,” *Comput. Chem. Eng.*, **158**, 107641 (2022)
2. Shigeki Ootakara and Yoshiyuki Yamashita, “Closed-loop Identification and PID Retuning of Self-excited Oscillatory Process from Poor PID Controller Tuning,” *J. Chem. Eng. Japan*, **54**, 672-684 (2021)
3. Takafumi Yamaguchi and Y. Yamashita, “Quality prediction for multi-grade batch process using sparse flexible clustered multi-task learning,” *Comput. Chem. Eng.*, **150**, 107320 (2021)
4. Junqing Xia and Y. Yamashita, “Physical-Principle Based Extended Attributes for Process Fault Detection,” *J. Chem. Eng. Japan*, **53**, 337-350 (2020)
5. H. Takeda and Y. Yamashita, “Process Identification and Design of Robust PI Controller for a Self-oscillation Integral Process with Dead Time,” *J. Chem. Eng. Japan*, **52**, 447-454 (2019)
6. 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 Chemical Engineering*, **44**, 229-234 (2018)
7. Koji Inagaki and Y. Yamashita, “Automatic Endpoint Determination for a Fluidized-Bed Dryer by using In-Line NIRS,” *Kagaku Kogaku Ronbunshu*, **43**, 29-36 (2017)
8. Harakhun Tanatavikorn and Y. Yamashita, “Batch Process Monitoring based on Fuzzy Segmentation of Multivariate Time-Series,” *J. Chem. Eng. Japan*, **50**, 53-63 (2017)
9. Mohd Sharizan Md Sarip, Noor Azian Morad, Y. Yamashita, Tomoya Tsuji, Mohd Azizi Che Yunus, Mustafa Kamal Abd Aziz, Hon Loong Lam, “Crude palm oil extraction using hot compressed water,” *Separation and Purification Technology*, **169**, 103-112 (2016)