Curriculum Vitae

Haruhiko Suwa

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Birth date and Place

January 10, 1970, Nagaokakyo, Kyoto, Japan

Nationality/Citizenship

Japanese/Japan

Majors

Systems Engineering, Mechanical Engineering and Manufacturing Engineering

Research Interests

Design and optimization of advanced manufacturing systems, advanced planning/scheduling. Recent interests include green manufacturing, capacity planning in green manufacturing, thermodynamical systems, and modeling of human skills.

Education

1994 - 1997	Ph.D. in Engineering, Kobe University, Japan.
1992 - 1994	M.E. in Systems Engineering, Kobe University, Japan.
1988 - 1992	B.E. in Systems Engineering, Kobe University, Japan.

Employment

1997 - 2001	Assistant Professor of Department of Industrial and Systems Engineering, Setsunan University, Japan.
2002 - 2009	Associate Professor of Department of Industrial and Systems Engineering, Setsunan University, Japan.
2010 - Present	Professor of Department of Mechanical Engineering, Setsunan University, Japan.
2012 - 2014	Visiting Scientist at Massachusetts Institute of Technology (MIT)
2016 - Present	Chair of Department of Mechanical Engineering, Setsunan University, Japan.

(Part-time lecturer)
Kyoto University in 2008, Kobe University in 2007-2010 and Ryukoku University in 2015-present.

Society Membership

American Society of Mechanical Engineers
The Japan Society of Mechanical Engineers
The Institute of Systems, Control and Information Engineers
Scheduling Society of Japan
Japan Society of Precision Engineering
Japan Industrial Management Association
The Society of Instrument and Control Engineers

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Awards and Honors

(Research)

2003 Best Presentation Award, The Institute of Electrical Engineers of Japan (Symposium on Electronics, Information and Systems Society).
2008 Academic Award, Scheduling Society of Japan.
2017 Outstanding Paper Award, Transactions of Institute of Systems, Control and Information Engineers

(Education)

2007 Award for Excellence in Teaching, Setsunan University.
2010 Special Award for Achievement in Education, Setsunan University.
2010 Award for Excellence in Teaching, Setsunan University.
2017 Special Award for Achievement in Education, Graduate School of Setsunan University

Research Support

2004 - 2006 Grants-in-Aid for Scientific Ministry of Education, Culture, Sports, Science and Technology No.16710128.
2008 - 2010 Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science No.20510151.
2011 - 2013 Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science No.23510195.
2016-2017 Fellowship Grants by YAMAMOTO METAL TECHNOS CO., LTD.
2018- Present Fellowship Grants by Okayama Prefecture in Japan.
2018 - Present Grants-in-Aid for Scientific Research of the Japan Society for the Promotion of Science No.18K11740.

Books

- Suwa, H. and Sandoh, H., ***Online Scheduling in Manufacturing***, Springer (2012)
- He wrote two books written in Japanese:
  - Tamaki, H., Suwa, H. and K. Yasuda, ***Systems Optimization*** (2004): Linear Programming, Non-linear Programming, Integer Programming and Discrete Optimization
  - Kaihara, T., Suwa, H. and Tamaki, H., 2005, ***Operations Research*** (2005): Mathematical Programming, Inventory Control, Game Theory & AHP, Queueing Systems, Combinatorial Optimization, Graph & Network, Scheduling, Simulations and Game Theory.

Peer-Reviewed Journals/Conference Papers (last five years)

- Suwa, H., Sakamoto, S., Nagata, M., Tezuka, K., and Samukawa, T., Applicability of Diamond Coated Tools for Ball-End Milling of Sintered Tungsten Carbide, International Journal of Automation Technology, Vol.14, No.1, pp.18--25, 2020.
- Yonemoto, R. and Suwa, H., Evaluation of Energy Efficiency and Productivity in Scheduling by Using Physical Simulator, Transactions of the Institute of Systems, Control and Information Engineers, Vol.32, No.5, pp.185--191, 2019.

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- Samukawa, T. and Suwa, H., A Basic Study on Predicting In-Process Energy Consumption in Machining Based on Specific Energy Consumption, Journal of Japan Society for Precision Engineering, Vol.83, No.4, pp.367-374,2017.
- Suwa, H., Sakamoto, S. and Samukawa, T., Capability of Diamond Coated Ball-End Tools in Milling of Sintered Tungsten Carbide, Proc. of 17th International Conference on Precision Engineering, 2018.
- Samukawa, T., Shimomoto, K. and Suwa, H., Capability of In-Process Specific Energy Consumption Model in Face Milling, Proc. of 2018 International Symposium on Flexible Automation, S044, 2018.
- Sakamoto, S., Suwa, H., and Moriwaki, T., Wear Properties of Diamond-Coated Ball End Tools in Milling of Tungsten carbide, Proc. of the 9th International Conference on Leading Edge Manufacturing in 21st Century, 2017.
- Yonemoto, R., Suwa, H. and Samukawa T., Evaluation of Energy Efficiency in Scheduling by Using Cyber-Physical Manufacturing Simulator, Proc. of International Symposium on Scheduling, pp.111-116, 2017.
- Samukawa, T. and Suwa, H., Development of Heterogeneous Measurement System for Predicting Power Consumption in Eco-Machining, Proc. of 2016 International Symposium on Flexible Automation, pp.413-419, 2016.
- Samukawa, T. and Suwa, H., An optimization of energy-efficiency in machining manufacturing systems based on a framework of multi-mode RCPSP, International Journal of Automation Technology, Vol.10, No.6, pp.985-992, 2016.
- Fujiwara, T., Suwa, H. and Morita, H., Dynamic Project Scheduling with Reduction of Activity Durations, International Journal of Project Organization and Management, Vol.8, No.3, pp.259-274, 2016.
- Suwa, H. and Morita, D., Reactive Project Scheduling Method to Enhance Project Progress under Uncertainty, Journal of Advanced Mechanical Design, Systems, and Manufacturing, Vol.10, No.3, 2016.
- Morita, D. and Suwa, H., An Exact Method for Robust Capacity Requirements Planning, International Journal of Automation Technology, Vol.9, No.3, 2015.
- Fujiwara, T., Suwa, H. and Morita, H., Dynamic Project Scheduling with Reduction of Activity Durations, International Journal of Project Organization and Management, 2014.
- Suwa, H. and Morita, D., Stability-Based Short-Term Capacity Requirement Planning under Uncertainty, Electronic Proceedings of The 2nd CIRP Robust Manufacturing Conference 2014, 2014.
- A Study on CPM-Based Dynamic Multi-Project Scheduling, Electronic Proceedings of 2014 International Symposium on Flexible Automation, 2014.
- Suwa, H. and Morita, D., A Study on Stability-Directed Capacity Requirement Planning: Application t Flexible Job Shops, Transactions of the Japan Society of Mechanical Engineering, Vol.80, No.814, 2014.