

Curriculum Vitae

Name : Minoru Sasaki (Male)

Date and Place of Birth : September 13, 1956 (Sendai, Japan)

Citizenship : Japan

Permanent Resident of Country : Japan

Home Address : 579-8 Kamimakuwa
Motosu,
Gifu Prefecture., 501-0461
Japan

Home Phone & Fax : +81-58-323-6375

Business Address : Department of Mechanical Engineering
Faculty of Engineering
Gifu University
1-1 Yanagido,
Gifu, Gifu Pref., 501-1193
Japan

Business Phone : +81-58-293-2541

Business Fax : +81-58-230-1892

Cellular Phone : +81-90-4250-4906

Business E-Mail : sasaki@gifu-u.ac.jp

Education:

Degree	Institution	Date
B.S.	Yamagata University	March 1980
M.S.	Tohoku University	March 1982
Ph.D.	Tohoku University	March 1985

(All in Mechanical Engineering)

Business Experience:

Institution Until	Position	From
Tohoku University 1988 Dept. of Mech. Eng.	Research Associate	April 1985 March

Miyagi National College 1989 of Technology Dept. of Mech. Eng.	Research Associate	April 1988	March
Miyagi National College 1991 of Technology Dept. of Mech. Eng.	Assistant Professor	April 1989	December
University of California Los Angeles Electrical Eng. Dept.	Visiting Professor	August 1990	July 1991
Miyagi National College of Technology Dept. of Mech. Eng.	Associate Professor	January 1992	March 1993
Gifu University February 2003 Dept. of Mech. Eng.	Associate Professor	April 1993	
University of California 1997 Los Angeles Electrical Eng. Dept.	Visiting Professor	October 1997	December
Georgia Institute of Technology The George W. Woodruff School of Mechanical Engineering	Visiting Professor	January 1998	March 1998
Gifu University Present Dept. of Human and Information Systems Eng.	Professor		March 2003
Gifu University March 2008 Dept. of Human and Information Systems Eng.	Department chair	April 2007	
Institute of Field Robotics, November 2009 King Mongkut's University of Technology Thonburi	Visiting Professor	September 2009	

Gifu University,	Head of Supporting and Development Center for Technology Education Faculty of Engineering,	April 2009	March 2011
Gifu University Present	Director of Career Center, Assistant Executive Director	April 2011	
Gifu University,	Assistant President,	April 2012	Present
Dedan Kimathi University of Technology, Nyeri, Kenya -	Visiting Professor, School of Engineering	August 2011	Present
Gifu University	Senior Professor	June 2016	Present

Social Activity:

- Asia-Pacific Magnetic Recording Conference 2000 Publicity 2000
- 78th JSME International Journal Editor 2000-2001
- 78th JSME Information, Intelligence and Precision Equipment Division Secretary 2000-2001
- 1st International GDCN Conference Program Committee 2000
- The Third Romanian-Japanese Joint Seminar on Applied Electromagnetics and Mechanics Organizing Committee 2001
- E-TECH INTERNATIONAL CONFERENCE Program Committee 2001
- International Conference on Mechatronics and information Technology Program Committee 2001
- 79th JSME International Journal Editor 2001-2002
- 79th JSME Information, Intelligence and Precision Equipment Division Secretary 2001-2002
- E-TECH INTERNATIONAL CONFERENCE Program Committee 2002
- E-TECH INTERNATIONAL CONFERENCE Program Committee 2003-11
- The 2003 International Conference on Mechatronics and Information Technology General Chair 2003
- The 2007 International Conference on Mechatronics and Information Technology General Chair 2007
- The 2009 International Conference on Mechatronics and Information Technology Advisory Committee 2009
- The 2011 International Conference on Mechatronics and Information Technology Advisory Committee 2011
- Executive director of Society of Instruments and Control Engineers 2008-2010
- Executive board members of Japan Society of Applied Electromagnetics and Mechanics 2008-
- Board members of trustees of Society of Instruments and Control Engineers 2010-

- Program chair of 2011 IEEE/SICE International Symposium on System Integration 2011
- JSPS (Japan Society for the Promotion of Science) Committee members on Grants-in-Aid for Scientific Research 2008-
- Editor of the Journal of Electrical Engineering and Technology 2012-
- Editor of the Transactions of Japan Society of Mechanical Engineers(JSME) 2012-
- Associate Editor of the Mechanical Engineering Journal 2013-
- JSME Medals and Awards selection committee members 2013-
- SICE (Society of Instrument and Control Engineers) fellows 2014-

Membership: ASME, IEEE, JSME (Japan Society of Mechanical Engineers), SICE(Society of Instrument and Control Engineers), RSJ(Robotics Society of Japan), JSASS(Japan Society for Aeronautical and Space Sciences), Japan Society of Applied Electromagnetics and Mechanics Planetary Society

Publications:

1. On the Dynamic Stability of a Stepped Beam Subjected to a Compressive Force (Hideo Saito and Minoru Sasaki), Trans. JSME Ser.C, Vol.49, No.448, pp.2149-2154 (1983).
2. Vibration and Stability of Elastically Supported Multi-Span Beams under Conservative and Non-Conservative Loads (S.CHONAN and M.SASAKI), Journal of Sound and Vibration, Vol.99, No.4, pp.545-556 (1985).
3. Vibration and Stability of Elastically Supported Circular Plates under Conservative and Non-Conservative Loads (M.SASAKI and S.CHONAN), Journal of Sound and Vibration, Vol.103, No.1, pp.99-108 (1985).
4. Parametric Instability of Elastically Supported Multi-Span Beams (M.SASAKI and S.CHONAN), Journal of Sound and Vibration, Vol.109, No.2, pp.181-191 (1986).
5. Parametric Instability of Elastically Restrained Circular Plates (M.SASAKI and S.CHONAN), Journal of Acoustical Society of America, Vol.82, No.3, pp.946-951 (1987).
6. Manual Control of a Flexible Arm and Application to Automatic Control Systems (M.SASAKI, H.INOOKA and T.ISHIKURA), Proceedings of the 1987 Korean Automatic Control Conference, Vol.2-2, pp.905-908 (1987).
7. Manual Control of a Flexible Arm and its Application to an Automatic Control System (M.SASAKI, H.INOOKA and T.ISHIKURA), IEEE Transactions on Systems, Man, and Cybernetics, Vol.20, No.3, pp.718-722 (1990).
8. Trajectory Control of a Flexible Robot Arm Using Inverse Dynamics (M.SASAKI, E.YAMAGATA and H.INOOKA), Proceedings of the 1988 Korean Automatic Control Conference, Vol.2-2, pp.987-992 (1988).
9. The Hybrid Position/Force Control of a Flexible Robot Arm Using Inverse Dynamics (M.SASAKI, E.YAMAGATA, T.SAIKAWA and H.INOOKA), Proceedings of the International Symposium on Advanced Computers for Dynamics and Design '89, pp.85-90 (1989).

10. Application of Inverse Dynamics for Hybrid Translational Position/Force Control of a Flexible Robot Arm (M. SASAKI and H. INOOKA), Proceedings of the 1989 Korean Automatic Control Conference, Vol.2, pp.595-599 (1989).
11. Dynamic Characteristic and Control of a High-Polymer Piezoelectric Actuator (M. SASAKI and H. INOOKA), Trans. of JSME Ser.C, Vol.57, No.534,pp.174-178 (1991).
12. Piezopolymer Flexible Micro-Manipulator (M. SASAKI and P.K.C. WANG), Proceedings of the 1991 Korean Automatic Control Conference, Vol.2-2,pp.1459-1464 (1991).
13. A Distributed-Parameter Model for the Flexible Micro-Manipulator Dynamics (M. SASAKI), 1992 Japan-Korea Joint Seminar on Advanced Mechatronics, pp.100-112 (1992).
14. Piezopolymer Bimorph Flexible Micro-Actuator (M. SASAKI) Proceedings of the 1st International Conference on Motion and Vibration Control, Yokohama, pp.368-373 (1992).
15. Stability Analysis of Piezopolymer Flexible Twisting Micro-actuator with a Linear Feedback Control (M. Sasaki, P. K. C. Wang, F. Fujisawa), Proceedings of Korea Automatic Control Conference '93, pp.197-201(1993).
16. Stability Analysis of Piezopolymer Flexible Micro-Actuator with a Linear Feedback Control (M. Sasaki), Proceedings of the 2nd International Conference on Motion and Vibration Control, Yokohama pp.361-366(1994).
17. Positioning Control of a Redundant Actuator, M. Sasaki, M. Setta, K. Satoh and F. Fujisawa, Proceedings of Korea Automatic Control Conference '94, pp.605-610(1994).
18. Piezopolymer Flexible Micro-Actuator with Multi-Degrees of Freedom (Minoru Sasaki, Yijing Zhu and Fumio Fujisawa), Proc. of 5th International Conference on Adaptive Structures, pp.513-522 (1994).
19. Optimal Force Tracking Control of a Piezoelectric High-Polymer Actuator Masayuki Okugawa, Minoru Sasaki, Kengo Suzuki and Masanobu Ishihara, Proc. of 5th International Conference on Adaptive Structures, pp.602-611 (1994).
20. Stability Analysis of Piezopolymer Flexible Micro-Actuator with a Linear Feedback Control Minoru Sasaki, Second International Conference on Motion and Vibration Control, pp.361-366 (1994).
21. Experimental Investigation on Rigid Rotor Balance Containing Error in Influence Coefficient (Comparison of Balancing Condition between the Least Squares Method and the Influence Coefficient method) (Fumio Fujisawa, Minoru Sasaki, Yasuro Hori, Koki Shiohata, Takashi Kohno and Hiroyuki Ohsawa), Trans. JSME Ser.C, 61-58414431449(1995).
22. Trajectory Tracking Control of a Flexible Micro-Manipulator using Neural Networks Minoru Sasaki, Kengo Suzuki and Fumio Fujisawa Proc. of 1995 IEEE International Conference on Systems, Man and Cybernetics, 2939-2944 (1995).
23. Vibration Control of a Hydraulic System using a Fuzzy Logic Controller Minoru Sasaki, Tomoki Hiramatsu and Fumio Fujisawa Proc. of Asia-Pacific Vibration Conference '95, Vol.1, 173-178 (1995).
24. Track-Following Control of Dual Stage Hard Disk Drive using Neural Networks Minoru Sasaki, Ryuji Yamada, Fumio Fujisawa, Kenji Mori and Hiromu Hirai Proc. of the 1st International Workshop on Advanced Mechatronics, 96-110 (1995).

25. An Approach to Motion Control of Flexible System Minoru Sasaki, Ryoichi Okamoto and Fumio Fujisawa Proc. of International Conference on Structural Dynamics, Vibration, Noise and Control, Vol.2, 1089-1094 (1995).
26. Controller Design Method a Flexible Micro-Manipulator Masayuki Okugawa and Minoru Sasaki Proc. of the International Symposium on Microsystems, Intelligent Materials and Robots, pp.71-74(1995).
27. Motion Control of a Piezopolymer Bimorph Flexible Microactuator, Minoru Sasaki, Masayuki Okugawa, Journal of Robotics and Mechatronics, 467-473(1995).
28. Analysis of Unbalanced vibration of a Hollow Cylindrical Rotor Partially Filled with Liquid (Takahashi Rikuro, Fumio Fujisawa, Minoru Sasaki and Kouji Okuda), Turbo Machine, 24-3, 1420(1996).
29. Learning and Tuning Fuzzy Logic Controller for Vibration Control of a Hydraulic System, Boon Tzong Yeo, Tomoki Hiramatsu, Minoru Sasaki and Fumio Fujisawa Proc. of the Third International Conference on Motion and Vibration Control, Vol.2, 110-115 (1996).
30. Neuro-Control System for Track-Following Control of Dual Stage Hard Disk Drive, Minoru Sasaki, Eiji Ida, Akiyoshi Yokoi, Fumio Fujisawa, Kenji Mori, and Hiromu Hirai Proc. of the Third International Conference on Motion and Vibration Control, Vol.2, 136-141 (1996).
31. Robust Track-Following Control of Dual Stage Hard Disk Drive, Toshiya Suzuki, Kohji Satoh, Minoru Sasaki, Fumio Fujisawa, Kenji Mori and Haruaki Ohtsuki, Proc. of the Third International Conference on Motion and Vibration Control, Vol.2, 142-147 (1996).
32. Neural Network for Trajectory Tracking Control of a Flexible Micro-Manipulator M. Sasaki, M. Kawafuku, T. Katsuno, and F. Fujisawa, Proc. of 1996 IEEE International Conference on Systems, Man and Cybernetics, 648-654 (1996).
33. Controller Design for a Hydrocone Crusher, Part 1: Modeling and Simulation of the Hydroset Circuit, Raphael Mwangobola, M. Sasaki, F. Fujisawa and H. Yamamoto, Proc. of '96 Korea Automatic Control Conference International Program 259-262 (1996).
34. Robust Motion Control of a Flexible Micro-Actuator using H_∞ Control Method, M. Okugawa, M. Sasaki and F. Fujisawa Proc. of '96 Korea Automatic Control Conference International Program, 397-400 (1996).
35. Positioning Control of a Piezopolymer Actuator using Neural Networks Motohiro Kawafuku, Teruyo Katsuno, Minoru Sasaki and Fumio Fujisawa, Proc. of 20th International Symposium on Space Technology and Science (1996).
36. Motion Control of Flexible Cartesian Robots Kouji Okuda, Minoru Sasaki, Fumio Fujisawa and Toshimi Shimizu, Proc. of 20th International Symposium on Space Technology and Science (1996).
37. Two-Degree-of-Freedom Control System for Motion Control of Flexible Cartesian Robots Minoru Sasaki, Kouji Okuda, Ryoichi Okamoto and Fumio Fujisawa Proc. of Active Control of Vibration and Noise 1996 ASME International Congress and Exposition pp.127-134 (1996).
38. Active Control of Sinusoidal Noise (Formulation of Control Algorithm and Stability Condition), (Mitsuru Nakamura, Minoru Sasaki, Fumio Fujisawa, Daisuke Tsukahara, Yasunori Yamada and Kiyosei Shibata), Trans JSME Ser. C 63-606 pp.423-430(1997).
39. Neural-Network-Based Controller with Application to a Flexible Micro-Actuator-Direct Neural Controller and its Extension to an Open-Loop Neural Controller- (Kazuhiko

- Takahashi and Minoru Sasaki), IEICE Trans.ELECTRON., Vol.E80-C, No.2, pp.246-254(1997).
40. Feedback-Error-Learning Neural Network for Trajectory Control of aFlexible Micro-Actuator (Motohiro Kawafuku, Minoru Sasaki and FumioFujisawa), Proc. of 1997 IEEE/ASME International Conference on AdvancedIntelligent Mechatronics, (1997).
 41. Comparison of Robust Track-Following Control Systems for a Dual Stage HardDisk Drive (Toshiya Suzuki, Takamasa Usui, Minoru Sasaki, Fumio Fujisawa, Takashi Yoshida and Hiromu Hirai), Proc. of International Conference onMicromechatronics for Information and Precision Equipment, (1997).
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 43. Robust Track-Following Control of a Dual Stage Hard Disk Drive using MixedSensitivity Problem (Toshiya Suzuki, Minoru Sasaki, Takamasa Usui, FumioFujisawa, Takamasa Usui, Takashi Yoshida and Hiromu Hirai), Proc. of 2nd Asian Control Conference (1997).
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 46. Active Noise Control of Periodic Noise with Higher Order HarmonicFrequencies (Control Performance Improvement by using a Spectrum Shaping Method), (Mitsuru Nakamura, minoru Sasaki, Fumio Fujisawa, YasunoriYamada and Kiyosei Shibata), Trns. JSME Ser.C,1997.
 47. Development of an Active Noise Control System with Minimized Amount of Calculation, (Mitsuru Nakamura Minoru Sasaki, Fumio Fujisawa, Isao Sumidaand Yasuro Hori), Trans. IEEJ Ser. D,1997.
 48. Tip Trajectory Based on a Gaussian Velocity Profile for Motion Control ofFlexible Cartesian Robots (K.Okuda, K.Kuhara, M.Sasaki, Y. Hori, F.Fujisawa) Proc. of the Asia-Pacific Vibration Conf. '97, MA-14, pp.126-131(1997).
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 50. Multi-Sensing method of a piezoelectric actuator using an observer(M. Okugawa and M. Sasaki) Journal of The Japan Society of AppliedElectromagnetics and Mechanics, Vol.6, No.1, pp.50-55(1998).
 51. Robust Motion Control of a Flexible Micro-Actuator Using the LQG/LTR Design Method (M. Okugawa and M. Sasaki) Trans. of The JSME Ser.(C),Vol.63, No.618, pp.194-199(1997-12).

52. Experimental Investigation on Rigid Rotor Balancing Containing Measurement Errors in Initial Unbalanced Vibration (M. Sasaki, Y. Hori and F. Fujisawa) Research Report of The Faculty of Engineering Gifu University, No.49, pp.15-22(1998).
53. A Radial-Basis-Function-Network-Based Controller with Application to Controlling A Flexible Micro-Actuator (Kazuhiko Takahashi, Takayuki Yamada, Minoru Sasaki) Trans. IEE of Japan (E), Vol.118-E, No.1, pp.14-21(1998).
54. Track-Following Control of a Dual Stage Hard Disk Drive Using Neuro-Control System (M. Sasaki, T.Suzuki, E.Ida, F.Fujisawa, M.Kobayashi and H. Hirai), Engineering Application of Artificial Intelligence, Vol.11pp.706-716(1998).
55. Comparison of Robust Track-Following Control System for a Dual Stage Hard Disk Drive (T.Suzuki, M.Sasaki, F.Fujisawa, T.Usui, H.Hirai and T. Yoshida), Advances in Information Storage System, Vol.10, pp.101-118(1999).
56. Application of Neural Network System for Track-Following Control of a Dual Stage Hard Disk Drive (M.Sasaki, T.Suzuki, F.Fujisawa, E.Ida, H.Hirai and M. Kobayashi), Advances in Information Storage System, Vol.10, pp.119-133(1999).
57. Force Control of Flexible Arm Using Two-Degree-of-Freedom Control System (K. Okuda, K. Kuhara, M. Sasaki and F. Fujisawa) Trans. of The JSME Ser.(C), Vol.64, No.620, pp.1382-1389(1998-4).
58. Positioning Control of a Self-Sensing Micro PVDF Actuator (A. Ogasawara, M. Sasaki and A. Ooishi) Trans. of The JSME Ser.(C), Vol.64, No.620, pp.1320-1326(1998-4).
59. Vibration Control of a Hydraulic System using a Learning Fuzzy Logic Controller (M. Sasaki, B. T. Yeo, A. Ogasawara and F. Fujisawa) Trans. of The JSME Ser.(C), Vol.64, No.624, pp.2867-2874(1998-8).
60. Neural Network for Trajectory Control of a Flexible Micro-Actuator (M. Kawafuku and M. Sasaki) Trans. of The JSME Ser.(C), Vol.64, No.626, pp.3813-3819(1998-10).
61. Learning Fuzzy Logic Controller for Hovering a Helicopter (M. Sasaki, H. Ishida, T. Katsuno and A. Ogasawara), Proc.1998 Conference of the North American Fuzzy Information Processing Society, pp.25-28, (1998-8).
62. Identification and Control of a Non-Minimum Phase Flexible Dynamical System Using Neural Networks (M. Sasaki, A. Ogasawara and M. Kawafuku), Proc. 1998 IEEE International Conference on Systems, Man, and Cybernetics, pp.1756-1761(1998-10).
63. Self-Tuning PID Control of a Flexible Micro-Actuator Using Neural Networks, (M. Kawafuku, M. Sasaki and S. Kato, Proc. 1998 IEEE International Conference on Systems, Man, and Cybernetics, pp.3067-3072 (1998-10).
64. Positioning control of a self-sensing PVDF actuator using neural networks (M. Sasaki, A. Ogasawara and M. Kawafuku), Journal of The Japan Society of Applied Electromagnetics and Mechanics, Vol.7No.1, pp.52-60(1999).
65. Positioning Control of a Piezopolymer Actuator Using Neural Networks (M.Kawafuku, T. Katsuno, M. Sasaki and F. Fujisawa), International Journal of Intelligent Mechatronics: Design and Production, Vol.2, No.2, pp.76-87 (1997).
66. Vibration Control by Accumulator for Vertically Driven Hydraulic System (Investigation on Load Adaptive Vibration Control), (F. Fujisawa, K. Hikage, M. Yoshihara, M. Sasaki and Y. Hori), Research Report of the Hachinohe Institute of Technology, Vol.17pp.3-14(1998).
67. Robust Track-Following Control of Dual Stage Hard Disk Drive using Mixed Sensitivity Problem (M. Sasaki, T. Usui and K. Ito), ASME Information Storage and Processing

- System Division 10th Symposium on Information Storage and Processing Systems, (1999).
68. Adaptive Learning Method of Neural Network Controller using an Immune Feedback Law (M. Kawafuku, M. Sasaki and K. Takahashi), Proceedings of the 1999 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, pp.641-646(1999).
 69. An Immune Feedback Mechanism Based Adaptive Learning of Neural Network Controller (M. Sasaki, M. Kawafuku and K. Takahashi), Proceedings of the 6th International Conference on Neural Information Processing, pp.502-507(1999).
 70. Track-Following Control of Dual Stage Hard Disk Drives (K. Ito, T. Miura and M. Sasaki), Proceedings of the 3rd International Workshop on Advanced Mechatronics, pp.93-98(1999).
 71. Disturbance Cancellation in a Hard Disk Drive using Neural Networks (M. Sasaki and K. Ito), Proceedings of the 3rd International Workshop on Advanced Mechatronics, pp.260-265(1999).
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 73. Comparison of Feedback Controllers for Feedback-Error-Learning Neural Network Control System with Application to a Flexible Micro-Actuator M. Sasaki, M.Kawafuku and K.Takahashi), JSME International Journal Series C, pp.149-156(2000).
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 79. PASSIVITY-BASED CONTROL OF ROTATIONAL AND TRANSLATIONAL TIMOSHENKO ARMS (M. Sasaki, T. Ueda and W. J. Book), Proc. the Fifth International Conference on Motion and Vibration Control 2000, pp.475-480(2000).
 80. Position-Sensorless Control of Magnetic Levitation using Current and Magnetic Flux (Y. Kobayashi, M. Sasaki, M. Okugawa, Y. Hori and Y. Takenaka), Proc. the Fifth International Conference on Motion and Vibration Control 2000, pp.317-322(2000).
 81. Soft Computing and Its Applications for Knowledge-Based Industry (M. Sasaki), Proc. the International Conference on Knowledge-based Industry, pp.97-116 (2000).
 82. System Identification and Controller Design of a Self-Sensing Piezoelectric Cantilever structure (Masajuki Okugawa and Minoru Sasaki), Proc. SPIE's 8th Annual International Symposium on Smart Structures and Materials, (2001).
 83. Mobile Robot Control by Brain-Wave Bio Potentials, (Choi Kyoung Ho, Minoru Sasaki and Andrew Junker), Proc. of the IIP 2001, pp.68-71(2001).

84. Effect of the Vertical Component of Movement on Slippage of a Power Transformer as Caused by Earthquakes (Yasuro Hori, Keizaburo Kawashima, Kiyoshi Minoguchi and Minoru Sasaki), *Trans. of The JSME Ser.(C)*, Vol.67, No.657, pp.1354-1359(2001).
85. Brain-Wave Bio potentials based Mobile Robot Control: Wavelet-Neural Network Pattern Recognition Approach (Choi Kyoung ho and Minoru SASAKI), *Proc. 2001 IEEE International Conference on Systems, Man, and Cybernetics*, (2001-10).
86. Communications with a Brain-wave bio-potential based computer interface, (Choi Kyoung ho and Minoru SASAKI), *Proc. ICCAS2001*, (2001-10).
87. Self-tuning vibration control of a rotational flexible arm using neural networks, (Minoru SASAKI and Yasuro HORI), *Proc. KSEEE 2001*, (2001-8).
88. Robust Control of Active Magnetic Levitation System, (Minoru Sasaki, Yoshimitsu Kobayashi, Yasuro Hori and Fumio Fujisawa), *Proc. RJSAEM01*, (2001-9).
89. Recognition of Emotion with Brain-Computer Interfaces, (Choi Kyoung ho, and Minoru Sasaki), *Proc. ICMIT01'*, (2001-12).
90. Active Electromagnetic Levitation Control of a Flexible Beam by Using Disturbance Observer, (Minoru Sasaki, Yoshimitsu Kobayashi, Yasuro Hori and Fumio Fujisawa), *Proc. ICMIT01'*, (2001-12).
91. End Point Motion Estimation of a Cantilevered Piezoelectric Beam, (Yoonsu Nam, Minoru Sasaki, and Juno Yoon), *Proc. ICMIT01'*, (2001-12).
92. An Approach for Automating a Hydrocone Crusher in the Mineral Processing Industry, (Raphael L. Mwangobola and Minoru Sasaki, *Proc. of The Zimbabwe Institution of Engineers*, pp.10-16, Vol.2, no.1, (July 2001).
93. Mobile Robot Control by Neural Networks EOG Gesture Recognition, (Choi Kyoung ho and Minoru SASAKI), *Proc. 8th International Conference on Neural Information Processing*, pp.170-175, Vol.1, (Nov. 2001).
94. Disturbance compensation of magnetic levitation using current and magnetic flux, (Minoru Sasaki, Yoshimitsu Kobayashi, Masayuki Okugawa, Yasuro Hori, Yoshihiro Takenaka), *Journal of The Japan Society of Applied Electromagnetics and Mechanics*, Vol.9, No.3, pp.349-357(2001).
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97. End point Motion Estimation of a Cantilevered Piezoelectric Beam, (Yoonsu Nam, Minoru Sasaki and Juno Yoon), *JSME International Journal*, Vol. 45, No. 3, pp. 722-729(2002).
98. System Identification and Controller Design of a Self-Sensing Piezoelectric Cantilever structure (Masayuki Okugawa and Minoru Sasaki), *Journal of Intelligent Material Systems and Structures*, Vol. 13, No. 4, pp.241-252.
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104. Communications with a Brain-Wave Bio-Potential Based Computer Interface, (Choi Kyoung ho and Minoru Sasaki), Machine Intelligence and Robotic Control, Vol. 4, No. 1, (2002), pp. 11-14.
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226. The Study of Dynamic Characteristics of Selemion CMV-based IPMC Actuators in Humidity-Controlled Environments, H. Ngetha, M. Sasaki, H. Tamagawa, S. Ito, K. Ikeda, *Journal of the Japan Society of Applied Electromagnetics and mechanics*, Vol.23, No.4, pp.742-747, 2015.
227. Meisam Taheri, Minoru Sasaki, Kojiro Matsushita, Harrison Ngetha, Satoshi Ito; A Study of Different Optimization Methods of Tool Path Machines (Tool Path Optimization by Using Genetic Algorithm), *Proceedings of 2015 International Conference on Mechatronics and Information Technology*, pp.71-76, December 2-5, 2015, Delpino Resort, 2015. (Best paper award)
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230. Hirohisa Tamagawa, Kota Ikeda, Minoru Sasaki and Harrison Ngetha, A Circuit Model Analysis of the Bending Curvature Spike Induction of Ag-coated Nafion IPMC, *Proceedings of 2015 International Conference on Mechatronics and Information Technology*, pp.132-139, December 2-5, 2015, Delpino Resort, 2015.
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233. Harrison Ngetha, Stephen Mathenge, Meisam Taheri, Minoru Sasaki, Solar Home Systems for the Kenya's Central Highlands Rural Community: Lessons from Gifu, Japan, **THE 2ND INTERNATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP**, November 2-4, 2016, Nyeri, Kenya, the *Journal of Applied Sciences, Engineering and Technology for Development (JASETD)*.

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235. Matsushita K., Miyasaka T., Mouri T., Mulembo T., Ngetha H.2, Sasaki M. Project-Based Learning in Graduate Course of Mechatronic Engineering at Gifu University, THE 2ND INTERNATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, November 2-4, 2016, Nyeri, Kenya, the Journal of Applied Sciences, Engineering and Technology for Development (JASETD).
236. Kojiro Matsushita, Satoshi Ito, Shunichi Kato, Harrison Ngetha, Minoru Sasaki, Comparison of GPS Smoothing Methods between Extended Kalman Filter and Particle filter for UAV, THE 2ND INTERNATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, November 2-4, 2016, Nyeri, Kenya, the Journal of Applied Sciences, Engineering and Technology for Development (JASETD).
237. Matsushita K., Ito S., Saeki T., Ngetha H., Sasaki M., Active Vibrational Control of Flexible Manipulator Using Filtered-x LMS Algorithm, THE 2ND INTERNATIONAL CONFERENCE ON SCIENCE, TECHNOLOGY, INNOVATION AND ENTREPRENEURSHIP, November 2-4, 2016, Nyeri, Kenya, the Journal of Applied Sciences, Engineering and Technology for Development (JASETD).
238. Contact-Force Control of a Flexible Timoshenko Arm, Takahiro Endo, Minoru Sasaki and Fumitoshi Matsuno, IEEE Transaction of Automatic Control, Vol.62, No.2, pp.1004-1009, Feb. 2017.
239. Autonomous oscillatory shape change of DEA induced by the charge-discharge process under a constant voltage, Hirohisa Tamagawa, Masaki Kakihana and Minoru Sasaki, JOURNAL OF ADVANCED DIELECTRICS, Vol. 7, No. 1 (2017) 1750002 (5 pages).
240. Contact-Force Control of a Flexible Timoshenko Arm in Rigid/Soft Environment, Takahiro Endo, Minoru Sasaki, Fumitoshi Matsuno, and Yingmin Jia, IEEE Transaction of Automatic Control, Vol.62, No.5, pp.2546-2553, May. 2017.
241. Adaptive Gain Tuning Feedback Control of a Flexible Manipulator, Minoru Sasaki, Ryo Nakamura, Waweru Njeri, Kojiro Matsushita and Satoshi Ito, Advances in Intelligent Systems Research, 2nd International Conference on Control, Automation, and Artificial Intelligence (CAAI 2017), Atlantis Press, volume 134, pp.575-580, (2017).
242. Internal Model Control of a Multilink Flexible Manipulator, Waweru Njeri*, Minoru Sasaki and Kojiro Matsushita, Advances in Intelligent Systems Research, 2nd International Conference on Control, Automation, and Artificial Intelligence (CAAI 2017), Atlantis Press, volume 134, pp.109-114, (2017).
243. Vibration Control of Flexible Manipulator Using Filtered Inverse Controller, Waweru Njeri, Minoru Sasaki and Kojiro Matsushita, Advances in Intelligent Systems Research, 2nd International Conference on Control, Automation, and Artificial Intelligence (CAAI 2017), Atlantis Press, volume 134, pp.102-104, (2017).
244. Identification and Discrimination of the Limb Motions using Brain Waves from Motor Imagery, Minoru Sasaki, Toshifumi Kojima, Kojiro Matsushita, Satoshi Ito, Titus Mulembo, Muhammad Ilhamdi Rusydi, Advances in Intelligent Systems Research, 2nd

- International Conference on Control, Automation, and Artificial Intelligence (CAAI 2017), Atlantis Press, volume 134, pp.96-101, (2017).
245. Development of a Driving Simulator with Analyzing Driver's Characteristics Based on a Virtual Reality Head Mounted Display Seyyed Meisam Taheri, Kojiro Matsushita, Minoru Sasaki, Journal of Transportation Technologies, 2017, 7, pp. 351-366.
 246. Estimation of Viewpoint Direction and Viewing Angle Using EOG, Minoru Sasaki, Naoya Ozeki, Satoshi Ito, Harrison Ngetha. Journal of Applied Sciences, Engineering and Technology for Development, Vol. 3, No. 1, 1 – 10, 3 July 2018.
 247. Comparison of Simulation of Contact Force Control of Flexible Manipulator Using Bernoulli-Euler theory and Timoshenko theory, Minoru Sasaki, Takashi Kuwabara, Waweru Njeri, Kojiro Matsushita and Harrison Ngetha, Journal of Applied Sciences, Engineering and Technology for Development, Vol. 3, No. 1, 11 – 23, 3 July 2018.
 248. Two-degree-of-freedom control of a multilink flexible manipulator using filtered inverse feedforward controller and strain feedback controller, Waweru Njeri, Minoru Sasaki, Kojiro Matsushita, Harrison Ngetha, Journal of Applied Sciences, Engineering and Technology for Development, Vol. 3, No. 1, 23 – 33, 3 July 2018.
 249. Waweru Njeri; Minoru Sasaki; Kojiro Matsushita, Two-degree-of-freedom control of a multilink flexible manipulator using filtered inverse feedforward controller and strain feedback controller, The 2018 IEEE International Conference on Applied System Innovation 2018 (IEEE ICASI 2018)(Best Conference Paper Awards).
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(not included domestic Proceedings papers)

Supervisor of Ph.D.

1. Mitsuru Nakamura, "Study on Active Control Algorithm of Periodic Noise", 1997.
2. Motohiro Kawafuku, "Positioning Control of Flexible Systems using Neuro Controllers", 2000.
3. Toshimi Shimizu, "Non-linear Control of Mechanical Systems Based on Passivity", 2002.
4. Masayuki Okugawa, "Smart Flexible Beam with Piezoelectric Material and its Applications", 2003.
5. Choi Kyoung ho, "Man-Machine Interface Through Bio-Potential Signals", 2004.
6. Hiroyuki Yamada, "Self-Sensing Actuators and its Application to Information Equipments Control", 2005.
7. Yoshifumi Kuriyama, "Study on optimal approach with CFD simulator and its application to die casting process", 2010.

8. MUHAMMAD ILHAMDI RUSYDI, "Control of robot manipulators using electrooculography", 2014.
9. Yoshimitsu Kobayashi, "Design and Construction of Active Electromagnetic Levitation Conveyance System with Current and Magnetic Flux Feedback", 2014.
10. Takuya Kobayashi, "Social Dissemination of nonlinear Structural Simulation Technologies", December 2015.
11. Harrison Thuku Ngetha, "Dynamic Characteristics and Control of Selemion CMV-based IPMC Actuators", March 2016.
12. Taheri Seyyed Meisam, "Driver Behavior Analysis Based on a Head-mounted VR Driving Simulator", September 2017.

External examiners of Ph.D.

1. Ying Li, "Nonlinear Control Designs of Hard Disk Drive Servos". School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, 2005.
2. Li Hui, "Advanced Control Design for Hard Disk Drive Systems", School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore, 2010.
3. Darwin Gouwanda, "Real-time wireless ambulatory gait monitoring system incorporating online periodical gait evaluations," Monash University, Malaysia, 2011.
4. Owais Ahmed Malik, "An Intelligent Rehabilitation and Performance Monitoring System for Anterior Cruciate Ligament Reconstructed Subjects Using Multi-Modal Wireless Integrated Sensors," University Brunei Darussalam, Negara Brunei Darussalam, 2014.
5. Promotion of Dr. O. E. Simolowo from the Grade of Senior Lecturer to Reader in the Department of Mechanical Engineering of the University. University of Ibadan, Nigeria, 2015.
6. Promotion of Dr D.A.Fadare from the grade of senior lecturer to Reader in the Department of Mechanical Engineering in the University of Ibadan, 2016.
7. Joko Triloka, "An Integrated Knee-Flexion Analysis and Pattern Recognition System for Lower Limb Muscles using Multi-Sensor Data Fusion," University Brunei Darussalam, Negara Brunei Darussalam, 2018..
- 8.

Awards

1. 29th March 2002 11th MAGDA Conference, 2002 JSAEM Best Technical Contribution Award of the Japan Society of Applied Electromagnetics and Mechanics in 2001, "Force

- control of a self-sensing PZT actuator", (Minoru Sasaki, Hiroyuki Yamada, Yasuro Hori)Journal of The Japan Society of Applied Electromagnetics and Mechanics, Vol.9, No.3, pp.358-363(2001).
2. June 3, 2005 in 2005 International Conference on Control, Automation, and Systems Best Presentation Award, Active Random Noise Control using Adaptive Learning Rate Neural Networks, Minoru Sasaki, Takumi Kuribayashi, Satoshi Ito.
 3. 20th December 2004 Wuhan University of Technology, Institute of International Education, Visiting Professor.
 4. 2006 JSAEM Best Paper Awards in FY2006 "Control of a self-sensing micro-actuator using neural network", J. Jpn. Soc. Appl. Electromagn. Mech., Vol.13, No.4 (2005), pp.282-287. Hiroyuki Yamada, Minoru Sasaki, Yoonsu Nam, Satoshi Ito.
 5. 1st November 2006 JSAEM Awards in FY2006 Distinguished Service Award.
 6. 30th October 2005 9th All Japan Idea water rocket contest Jury's special award "Hop Step Jump Go".
 7. 25th December 2009 Society of Instruments and Control Engineers System Integration Division Distinguished Service Award.
 8. 20th February 2012 Kimathi University College of Technology Visiting Professor, Nyeri, Kenya.
 9. 19th December 2012 Society of Instruments and Control Engineers System Integration Certificate Merit for Outstanding Contribution.
 10. 3rd December 2015; Best Paper Award of ICMIT 2015 "A Study of Different Optimization Methods of Tool Path Machines (Tool Path Optimization by Using Genetic Algorithm)", Seyyed Meisam Taheri, Minoru Sasaki, Kojiro Matsushita, Harrison Ngetha, Satoshi Ito.
 11. 1st June 2016 Commendation of Teaching and Administrative Staff: (excellent contribution to education and research activities) Professor Minoru Sasaki Faculty of Engineering.
 12. The Society of Instrument and Control Engineers acknowledges Kojiro MATSUSHITA, Keita NIWA, Satoshi ITO and Minoru SASAKI as a Finalist in the SICE Annual Conference International Award for the paper entitled, An Experiment to Evaluate Audio-Visual Instructions About Parts Position in an Assembling Task, presented at the SICE Annual Conference 2016, September 20-23, 2016, Tsukuba, Japan.
 13. The 2018 IEEE International Conference on Applied System Innovation 2018 (IEEE ICASI 2018, Best Conference Paper Awards, Waweru Njeri; Minoru Sasaki; Kojiro Matsushita, Two-degree-of-freedom control of a multilink flexible manipulator using filtered inverse feedforward controller and strain feedback controller.

Acquisition of external funds

1. Acquisition status of Grant-in-Aid for Scientific Research, Research Grant etc. Ministry of Education, Science, Science and Research Affairs
2. Encouragement Research A in 1988 (¥800,000) "For piezoelectric element sensors and actuators Study on damping control of flexible structure robot arms "Research leader Mr. Sasaki
3. FY 1993, FY 1995 Research and Research Expenses, (¥1.8 million) "For mechanical engineers CAD / CAM Integrated Education "Research Representative Shigeru Kimura, Minoru Sasaki, Researcher
4. FY 1994, FY 1995, general research B (¥6 million) "Piezoelectric film laminated membrane Active

- sound insulation control by ", Junji Tani, Research representative Teru Sasaki
5. FY 1994, FY 1995 Research B (¥2.1 million) "For neural nets Development of a micro elastic robot arm control system "Research leader Mr. Sasaki
 6. FY 1993 Encouragement Research A (¥800,000), "Polymer piezoelectric maker by stabilization reverse system Control of an Flexible Manipulator "Research leader Mr. Sasaki
 7. FY2000, FY 2001, and FY 20002 Fundamental research (C) (1) (¥3.6 million) "Fure by biological signals Research on teleoperation of a flexible manipulator "Research leader Minoru Sasaki
 8. FY 2002 Japan Society for the Promotion of Science Japan-Korea Science Cooperation Project Joint Research (¥111800 for FY2002) "Control of Self-sensing Microactuator for Two-Stage Hard Disk Drive" Project Period July 1, 2002 - 2004 March 31 (1 year and 9 months)
 9. Research leader Mr. Sasaki, FY 2005 and FY 2006 Fundamental Research (C) (1) (¥3.3 million) "Control of self-sensing microactuator for two-stage hard disk drive", Research leader Mr. Sasaki,
 10. FY 2006, 2007, 20 Fundamental Research (A) (General) (¥47.4 million) "Walk assist assisted with functional electrical stimulation, development of walking rehabilitation robot" Researcher Representative Goshi Asuka Graduate student Shimasa Sasaki
 11. FY2008, FY2009, FY2010 Fundamental Research (C) (1) (¥4.45 million) "Study on Self-Sensing Control of Hydrophilic Electrolyte Polymer Actuator" Research leader Prof. Sasaki
 12. FY2012, FY 2013 and FY 2014 Fundamental research (C) (¥5.33 million) "Study on high precision control of polymer actuator" Research leader Prof. Sasaki
 13. FY2004, FY2005, FY2006 Fundamental Research (C) (¥5.33 million) "R & D of Autonomous Vibration Suppression System of Ultraprecision Machine Using Fluid Static Pressure Bearing" Research leader Yoshihiro Inoue Research Participants Shin Sasaki

Others

1. Information Storage Research Promotion Organization FY 1995, FY 1996, FY 1997, FYFY 10, FY 1999, FY 2000 (Each year ¥2 million) About the high-response and high-precision control system of the two-stage servo system in "magnetic disk device.
2. TDK Corporation Year 1997, FY 1998, FY 1999, FY 2000, FY 2001 (Each year ¥1 million) "Servo-control study of the micro-actuator for a magnetic head."
3. Toshin Electric Co., Ltd. 1995 fiscal year ¥1.75 million, FY 2000 ¥420,000 "Research on magnetic levitation system for work contactless gripping the powder coating facility"
4. Co., Ltd. Links Corporation 1996 fiscal year ¥1.5 million "Study on the visual feedback of the two-degree-of-freedom flexible manipulator "
5. Science and Technology Agency regional research and development promoting centers support business potential test (FY 2000) (¥500 million) "Development of the magnetically levitated coating system."
6. 2002 National Astronomical Observatory of Japan ALMA joint research and development (40 million) "Development of a strong high-speed, high-accuracy antenna control technology to the disturbance."
7. 2002 Joint Research C Nagoya (¥42 million) "Research on the optimal design of high-efficiency sound insulation board"
8. 2002 proposed business Foundation Mechanical Systems Association "Research and prototype development of the demonstration system of the device control technology using a biological reaction" (project cost ¥23.5 million)
9. National Astronomical Observatory of Japan ALMA joint development research 2003 fiscal year ¥500,000 "Development of a strong high-speed, high-accuracy antenna control technology to the disturbance."
10. Daifuku Co., Ltd. Institute of Technology 2003 fiscal year ¥1.5 million, in 2004 ¥2.42

- million, FY2005 ¥2.42 million, in 2006 ¥1.68 million, FY 2007 ¥1848000, 2008 ¥2887500 2009 ¥550,000, 2010 ¥500,000, FY2011 ¥500,000, 2012 ¥500,000 "Damping Control elongated flexible member," "machine control by the biological signal"
11. The Institute of Chubu Aerospace Technology Center 2005 joint research and development survey commissioned research ¥525,000 2006 ¥420000 "Development Study of electric-driven artificial muscles using a hydrophilic polyelectrolyte"
 12. 2005 Osaka tip technology-creating industry-government-academia research and development subsidies ¥300000 "Autonomous flight technology of small unmanned machine using the GPS signal. "
 13. Ministry of Economy, Trade and Industry 2005 Regional Consortium Research and Development Project [Regional Manufacturing innovation frame] ¥1715700 "Next Generation mold manufacturing technology research and development projects." 2006 ¥1108800 Tasu ¥1,900,500 (machinery and equipment costs) 2007 ¥1474200
 14. FY2011 joint research expenses Epishi Aero Specialty Co., Ltd. "Operation analysis of vibration barrel" ¥660000 By 2015 positioning technology innovative manufacturing industries creation Collaboration Project (Strategic Basic Technology Advancement Support (gripping and image processing applications - (14) 2013 Development of aircraft wire marking tube automatic mounting and thermal contraction device)) ¥0
 15. 2015 University of activation expenses (group formed support) "biological and development ¥2.1 million of autonomous electrical control software actuators inspired by the electrical physiological similarity of artificial polymer
 16. 2013-2015 University of activation expenses (education) "Project based learning of development of Experimental rocket for France launching campaign (Utility machine system control theory) ¥700,000, ¥1,000,000, ¥900,000.
 17. December 15, 2006 - high efficiency as well as the study of the possibility of the development of new chestnut peeling automatic machine of confectionery workshop "chestnut processing line of November 30, 2007 joint research expenses, Ltd. Sato "¥150,000
 18. 2012 joint research expenses (株)NFS "the development of electric multi-rotor helicopter" ¥499,400
 19. FY2011 joint research expenses Chuo Precision Industrial Co., Ltd. "tire noise control using a Helmholtz resonator" ¥220,000
 20. "acoustic properties of the guitar material" 2008 September 9 - June 30, 2009 joint research expenses Pandora Music ¥300000
 21. "soft actuator developing next-generation robot core technology development / (innovative robot element technology field) next-generation functional materials / capacitor of material substrate" National Research and Development Institute of New Energy and Industrial Technology Development Organization commissioned the period March 27 November 2015 from 30 days until the 2016 October 31, ¥14,011,680- (of which consumption tax and local consumption tax ¥1,037,902-) 2016 fiscal year ¥5,643,680 (of which consumption tax and local consumption tax ¥ 418,050)

Referees

1. Professor Wayne J. Book
HUSCO/Ramirez Distinguished Chair in Fluid Power and Motion Control and Professor Emeritus

George W. Woodruff School of Mechanical Engineering at Georgia Institute of Technology

E-mail: wayne.book@me.gatech.edu

TEL: +1-404.894.3247

FAX: +1-404.894.8496

2. Professor Ryojun Ikeura
Department of Mechanical Engineering
Mie University
E-mail: ikeura@ss.mach.mie-u.ac.jp
[TEL:+81-90-8321-7237](tel:+81-90-8321-7237)
3. Professor Kazuhiko Takahashi
Faculty of Science and Engineering,
Department of Information Systems Design
Doshisha University
E-mail: katakaha@mail.doshisha.ac.jp
TEL: +81-90-1951-1954