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## CURRICULUM VITAE

**Name in Full:** Satoru Okamoto

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**Description:** Male

**Present Status:** Full Professor of Shimane University, Matsue, Japan

**Education:** B.S. in Mechanical Engineering, Osaka University, Osaka, Japan, 1975  
M.S. in Mechanical Engineering, Osaka University, Osaka, Japan, 1977  
Ph.D. in Mechanical Engineering, Osaka University, Osaka, Japan, 1980

**Professional Experience:** Researcher, Research & Development Department, Ishikawajima-Harima Heavy Industries Co., Ltd., Tokyo, Japan, 1980-1983  
Researcher, Systems Research & Development Institute of Japan, Tokyo, Japan, 1983-1988  
Associate Professor, Department of Mechanical Engineering, Niihama National College of Technology, Niihama, Japan, 1988-1994  
Visiting Research Scientist, Lehigh University, Bethlehem, Pennsylvania, U.S.A., 1994-1995  
Professor, Department of Mathematics and Computer Science, Shimane University, Matsue, Japan, 1995-to the present time

### **Experiences in Editing and Reviewing Journal and Articles:**

Assistant Editor of International Journal of Energy and Environmental Engineering (a SpringerOpen Journal, ISSN: 2251-6832), 2011- to the present time

Editorial board of Conference Papers in Engineering (Hindawi Publishing Corporation, ISSN: 2314-5366 (Online)), 2012- to the present time

Editorial Board of Advances in Energy Research (ERi), *An International Journal*, (Techno Press, ISSN: 2287-6316 (Print), ISSN: 2287-6324 (Online)), 2012- to the present time

International Program Committee of the IASTED International Conference on Power and Energy Systems and Applications, 2010- to the present time

Reviewer of Applied Thermal Engineering (ATE) (ELSEVIER, ISSN: 1359-4311), Completed reviewer assignments are 50 total assignments from 2007 to the present time.

### **Professional Affiliations and Activities**

Member, The Japan Society of Mechanical Engineering (JSME), 1974 ~ present

Member, American Institute of Aeronautics and Astronautics (AIAA), 2004 ~ present

Member, The Institute of Electronics, Information and Communication (IEICE), 1995 ~ present

Member, Information Processing Society of Japan (IPSJ), 2000 ~ present

Member, The Society of Instrument and Control Engineers (SICE), 1994 ~ present

Member, The Japanese Society for Experimental Mechanics (JSEM), 2011 ~ present

**Current Research Area:** Advanced thermal and fluids science and technology such as flow-induced vibrations, small-scale energy systems with gas turbines and heat pumps, and experimental fluid dynamics and heat transfer

**Satoru Okamoto** is currently a Professor in the Department of Mathematics and Computer Science at Shimane University. He pursued his degree in M.Sc. in 1977 and Ph.D in mechanical engineering in 1980 from Osaka University. Then, he worked as a researcher in the Research & Development Department at Ishikawajima-Harima Heavy Industries Co., Ltd (IHI). At IHI, he worked as a vendor of aircraft engines and gas turbines, and had also designed compressors and fans of jet engines. He was an associate professor in the Department of Mechanical Engineering at Niihama National College of Technology from 1988 to 1994. Meanwhile, in 1994, he joined Professor Donald Rockwell's group at Lehigh University as a visiting research scientist for about one year. During this period, he explored an application of flow visualization and PIV in the field of flow-induced vibrations. He is also a member of AIAA and the Japan Society of Mechanical Engineering. His current research interest lies in advanced thermal and fluids science and technology such as flow-induced vibrations, small-scale energy systems with gas turbines and heat pumps, and experimental fluid dynamics and heat transfer. In addition, he has published over 100 journals and conference papers.

### **Selected Publications (\* denotes corresponding author)**

#### **Books and Book Chapters**

1. **Programing Exercise – BASIC, FORTRAN, PASCAL, C -**, Published by MORIKITA Pub., ISBN4-627-83520-5 (in Japanese) (1992), pp.157-178.
2. **Technical Report No.1092: Technical Report on System Model Analysis in Energy Research**, Investigation committee on complex energy supply and demand system technology, Published by The Institute of Electrical Engineers of Japan (IEEJ), (in Japanese) ISSN: 0919-9195 (2007).
3. **Technical Report No.1187: Development Trend of Energy Technologies and Systems for Low-carbon Society in Japan**, Investigating R & D Committee on energy supply and demand systems/technologies in next generation, Published by The Institute of Electrical Engineers of Japan (IEEJ), (in Japanese) ISSN: 0919-9195 (2010).

4. **Wind Tunnels**, Edited by Satoru Okamoto\*, Chapter 7 Experimental Study of Flow-Induced Vibrations and Scattering of Roof Tiles by Wind Tunnel Testing, ISBN: 978-953-307-295-1, Published by InTech (Croatia) (February, 2011), pp.121-136.
5. **Biomedical Engineering and Cognitive Neuroscience for Healthcare: Interdisciplinary Applications**, Satoru Okamoto\*, Tetsuya Hirotsu, Keigo Aoki and Yasutomo Hosomi : Evaluation of Walking Motions with the Aid of Walkers Using Acceleration Sensors, Published by IGI GLOBAL, ISBN: 9781466621138, (2012), pp. 346-354.

**List of the Selected Articles:**

**(i) Articles in Refereed Journals**

1. S. Okamoto\*, T. Hirose and T. Adachi : The Effect of Sound on the Rate of Heat Transfer from a Cylinder Placed Normal to an Air Stream, Bulletin of the Japan Society of Mechanical Engineers, **Vol.22, No.172** (1979), pp.1407-1415.
2. S. Okamoto\*, T. Hirose and T. Adachi : The Effect of Sound on the Vortex-shedding from a Circular Cylinder (Acoustical Vibration Directed along Axis of Cylinder), Bulletin of the Japan Society of Mechanical Engineers, **Vol.24, No.187** (1981), pp.45-53.
3. S. Okamoto\*, T. Hirose and T. Adachi : The Effect of Sound on the Heat Transfer and the Vortex-shedding from a Heated Circular Cylinder (Acoustical Vibration Directed along Axis of Cylinder) (in Japanese), Transactions of the Japan Society of Mechanical Engineers, **Vol.47, No.422** (1981), pp.1986-1994.
4. Y. Monden\*, M. Yamada and S. Okamoto : Fast and Practical Solution of - The Discrete Inverse Scattering Problems **SIGNAL PROCESSING IV: Theories and Applications**, Elsevier Science Pub. (1988), pp.683-686.
5. S. Okamoto\* : The Effect of Sound on the Heat Transfer and the Vortex-shedding from a Heated Circular Cylinder Placed Normal to an Air Stream (in Japanese), Journal of the Heat Transfer Society of Japan, **Vol.27, No.107** (1988), pp.84-97.
6. S. Okamoto\* : The Effects of Sound Waves on the Near Wake of a Heated Circular Cylinder (Appropriateness for the Reynolds Number Used the Fluid Kinematic Viscosity in the Film Temperature) (in Japanese), Journal of the Japan Society for Aeronautical and Space Sciences,

**Vol.37, No.422** (1989), pp.25-33.

7. S. Okamoto\* : Topics of Local Energy (in Japanese), Energy and Resources, Japan Society of Energy and Resources, **Vol.10, No.3** (1989), pp.75-82.
8. S. Okamoto\* : An Investigation into the Actual Condition About the Trade of Petroleum Goods (Kerosene and Liquid Petroleum-Gas) (in Japanese), Energy and Resources, Japan Society of Energy and Resources, **Vol.10, No.5** (1989), pp.78-83.
9. S. Okamoto\* : The Effects of Sound Waves on the Near Wake of a Heated Circular Cylinder (Analogy to Thermoacoustic Streaming) (in Japanese), Journal of the Japan Society for Aeronautical and Space Sciences, **Vol.38, No.432** (1990), pp.23-29.
10. S. Okamoto\* : Plans of Using Geothermal Water Flowing out of the Gold Mine in Hishikari-cho of Kagoshima Prefecture (in Japanese), Journal of the Society of Engineers for Mineral Springs, Japan, **Vol.24, No.1** (1990), pp.7-17.
11. S. Okamoto\* : Energy System and Local Development (in Japanese), Journal of Japan Solar Energy Society, **Vol.16, No.1** (1990), pp.33-40.
12. S. Okamoto\* : Plans of Cold-Storage Enterprise of Meat by Methane-Gas of Waste of Pigs (in Japanese), The Transaction of the Society of Heating, Air-Conditioning and Sanitary Engineers of Japan, **Vol.64, No.8** (1990), pp.49-55.
13. S. Okamoto\* : Effect of Sound on Vortex-shedding from a Circular Cylinder – Acoustical Vibration Directed Normal to the Axis of Cylinder- (in Japanese), Journal of the Society of Heating, Air-Conditioning and Sanitary Engineers of Japan, **Vol.44** (1988), pp.1-10.
14. M. Nagamatsu, S. Okamoto and Y. Monden\* : Simultaneous Estimation of Both Area- and Loss-Functions of Lossy Nonuniform Acoustic Tubes, SIGNAL PROCESSING V: Theories and Applications, Elsevier Science Pub. (1990), pp.485-488.
15. Y. Monden\*, M. Nagamatsu and S. Okamoto : Wavefront Array Implementation of Scattering and Inverse Scattering Solution Methods, SIGNAL PROCESSING V: Theories and Applications, Elsevier Science Pub. (1990), pp.1587-1590.

16. S. Okamoto\* : Energy Estimation of Ceramic Gas Turbine Cogeneration System, ENERGY CONVERSION AND UTILIZATION WITH HIGH EFFICIENCY, Researches Pursued under the Grant-in-Aid on Priority-Area Research Supported by the Ministry of Education, Science and Culture, Japan, (1993), pp.55-60.
17. S. Okamoto\* and Y. Monden : Visualization of Vortex-Fin Interaction : Quantitative Interpretation of Flow Structure, Transactions of the Japan Society for Aeronautical and Space Sciences, **Vol.39, No.125** (1996), pp.329-337.
18. S. Okamoto\* : An Investigation of Actual Conditions about Waste Energy from Chemical Factory and Paper & Pulp Factory (in Japanese), Energy and Resources, Japan Society of Energy and Resources, **Vol.18, No.4** (1997), pp.82-86.
19. S. Okamoto\* and Y. Monden : Quantitative Interpretation of Vortex-Fin Interaction via Particle Image Velocimetry and Measurement of Surface Pressure Loading, Transactions of the Japan Society for Aeronautical and Space Sciences, **Vol.40, No.128** (1997), pp.87-102.
20. S. Okamoto\* : Thermodynamic and Economic Simulation of Ceramic Gas Turbine Cogeneration Plant (in Japanese), Energy and Resources, Japan Society of Energy and Resources, **Vol.18, No.6** (1997), pp.75-81.
21. S. Okamoto\* : An Experimental Study on the Acoustical Resonance and Its Suppression in the Exhaust Gas Economizer Employed in the Ship (in Japanese), Transactions of the Society of Instrument and Control Engineers, **Vol.34, No.4** (1998), pp.299-304.
22. S. Okamoto\* : Flow Induced Acoustical Resonance in Staggered Tube Arrays –Effect of Longitudinal Tube Spacing- (in Japanese), Transactions of the Society of Instrument and Control Engineers, **Vol.34, No.4** (1998), pp.305-310.
23. S. Okamoto\* : Flow Induced Acoustical Resonance In Staggered Tube Arrays (in Japanese), Transactions of the Japan Society of Mechanical Engineers, **Vol.66, No.648** (2000), pp.145-152.
24. S. Okamoto\* : Acoustical Resonance Behind Tube Arrays in Exhaust Gas Economizer (in Japanese), Transactions of the Japan Society of Mechanical Engineers, **Vol.66, No.649** (2000), pp.114-120.

25. S. Okamoto\* : Visualization of impingement of broken-down vortex on tail, Journal of Wind Engineering and Industrial Aerodynamics, Elsevier Science, **Vol.91, No.1-2** (2003), pp.65-74.
26. R. Nanba, S. Okamoto\*, A. Okuda and Y. Shibao : Researches on Vibration and Scattering of Roof Tiles by Wind Tunnel Test (2<sup>nd</sup> Report, Effect of Vibration on Scattering of Roof Tiles) (in Japanese), Transactions of the Japan Society of Mechanical Engineers, **Vol.72, No.724** (2006), pp.207-213.
27. S. Okamoto\* : A heat pump system with a latent heat storage utilizing seawater installed in an aquarium, Energy and Buildings, Elsevier Science, **Vol.38, No.1-2** (2006), pp.121-128.
28. S. Okamoto\*, R. Nanba, K. Shibao, M. Satou and Y. Shibao : Researches on Vibration and Scattering of Roof Tiles by Wind Tunnel Test, Journal of Environment and Engineering, The Japan Society of Mechanical Engineers, **Vol.2, No.2** (2007), pp.237-246.
29. R. Nanba, S. Okamoto\*, A. Okuda and Y. Shibao : Researches on Vibration and Scattering of Roof Tiles by Wind Tunnel Test (Effect of Vibration on Scattering of Roof Tiles), Journal of Environment and Engineering, Japan Society of Mechanical Engineers, **Vol.2, No.3** (2007), pp.611-620.
30. S. Okamoto\*, R. Nanba and Y. Shibao : Researches on Vibration and Scattering of Roof Tiles by Wind Tunnel Test (3rd Report, Water Leak Tests of Tiled Roof by Rainfall Apparatus) , Journal of Environment and Engineering, Japan Society of Mechanical Engineers, **Vol.4, No.3** (2009.11), pp. 512-523.
31. S. Okamoto\* : Saving energy in a hospital utilizing CCHP technology, International Journal of Energy and Environmental Engineering, Springer, ISSN: 20089163, **vol.2, No.2** (2011), pp.45-55.
32. S. Okamoto\* : Water Leak Testing of Japanese Tiled Roofs under Vibration and Scattering, IERI Procedia, Special Issues, ELSEVIER, ISSN: 22126678, **vol.1** (2012), pp.47-52.
33. S. Okamoto\* : Wind Effect on Vibration and Scattering Behavior of Japanese Roofing Tile, IERI Procedia, Special Issues, ELSEVIER, ISSN: 22126678, **vol.1** (2012), pp.53-58.

34. S. Okamoto\* : Evaluation of Skills in Batting Technique in Baseball Using Acceleration Sensors, Journal of the Japanese Society for Experimental Mechanics, Special Issue, ISSN: 13464930, vol.12 (2012), pp. s255-s260.

**(ii) Articles in Refereed Conference Proceedings**

1. S. Okamoto\* : The active control of flow and heat transfer around a circular cylinder by sound (in Japanese), Proceedings of 5<sup>th</sup> Symposium on Fluid Control, Tokyo, (1990), pp.1-6.
2. S. Okamoto\* : An experimental study on the acoustical resonance in the exhaust gas economizer for a ship (in Japanese), Proceedings of 3<sup>rd</sup> Joint Symposium on Fluid Control and Measurement, Tokyo, (1991), pp.173-178.
3. S. Okamoto\* : Flow Induced Acoustical Resonance in Staggered Tube Arrays (Effect of Longitudinal Tube Spacing) (in Japanese), Proceedings of 4<sup>th</sup> Joint Symposium on Fluid Control and Measurement, Tokyo, (1993), pp.19-24.
4. S. Okamoto\* : Quantitative Visualization of Complex, Unsteady Flow via Laser-Scanning Particle Image Velocimetry (in Japanese), Proceedings of 5<sup>th</sup> Joint Symposium on Fluid Control and Measurement, Tokyo, (1995), pp.137-142.
5. Y. Monden\* and S. Okamoto : Algebraic Lattice Realization of Passive Transmission Line Systems, Proceedings of EUSIPCO-96 Eighth European Signal Processing Conference, Trieste, Italy, (1996), pp.511-514.
6. S. Okamoto\* : Numerical Simulation and Visualization of Three-Dimensional Cavity Thermal Flow by Finite Volume Method (in Japanese), 18<sup>th</sup> Simulation Technology Conference, Tokyo, (1999), pp.55-58.
7. S. Okamoto\* : Visualization Study of Vortex Breakdown-Fin Interaction Using PIV and Pressure Measurement, Proceedings of the Fifth Asian Symposium on Visualization, ASV.98, Bedugul, Bali, Indonesia, March 8-11, 1999, pp.521-526.
8. S. Okamoto\* : The effect of sound on the heat transfer and the vortex-shedding from a heated circular cylinder: Acoustical vibrations directed along its axis, Proceedings of the 7<sup>TH</sup> International Conference on Flow-Induced Vibration - FIV2000, Lucerne, Switzerland, June 19-22, 2000, pp.587-594.



9. S. Okamoto\* : Flow Induced Acoustic Resonances in Exhaust Gas Economizer Tube Banks, Proceedings of the 6<sup>th</sup> International Symposium on Marine Engineering, Tokyo, Japan, ISME TOKYO 2000 October 23-27, 2000, pp.625-632.
10. S. Okamoto\* : Impingement of Broken-Down Vortex on Tail, Proceedings of the 4<sup>th</sup> Pacific International Conference on Aerospace Science and Technology, Kaohsiung, Taiwan, PICAST 4, May 21-23, 2001, pp.119-122.
11. S. Okamoto\* : Thermodynamic and Economic Simulation of Ceramic Gas Turbine Cogeneration Plant, Proceedings of the ASME 36<sup>th</sup> Intersociety Energy Conversion Engineering Conference, IECEC2001-ES-09, July 29-August 2, 2001, Savannah, Georgia, U.S.A., pp.131-137.
12. S. Okamoto\* : Visualization of Impingement of Broken-Down Vortex on Tail, Proceedings of the Fifth Asia-Pacific Conference on Wind Engineering, APCWE V, Kyoto, Japan, October 21-24, 2001, pp.137-140.
13. S. Okamoto\* : Visualization Study of Vortex Breakdown-Fin Interaction Using PIV and Pressure Measurement, Proceedings of 23<sup>rd</sup> International Symposium on Space Technology and Science (Selected Papers), 23<sup>rd</sup> ISTS, Matsue, Japan, **Paper No.2002-e-17**, May 26-June 2, 2002, pp.1087-1092.
14. S. Okamoto\* : Flow Induced Acoustical Resonance in Exhaust Gas Economizer Tube Banks, CD-ROM Proceedings of Intersociety Energy Conversion Engineering Conference, IECEC 2002, **Paper No.20028**, Washington, DC, U.S.A., July 28-August 1, 2002.
15. S. Okamoto\* : Flow Visualization and Pressure Distribution over a Fin Undergoing Vortex-Breakdown Interaction, CD-ROM Proceedings of 10<sup>th</sup> International Symposium on Flow Visualization, ISFV10, **Paper No.F0010**, Kyoto, Japan, August 26-29, 2002.
16. S. Okamoto\* : Flow Visualization of Vortex Breakdown-Fin Interaction via Particle Image Velocimetry, CD-ROM Proceedings of International Symposium on Experimental Mechanics, ISEM, **Paper No. C237**, Taipei, Taiwan, December 28-30, 2002.
17. S. Okamoto\*, K. Nada, T. Kuriyama and M. Koyama : A Heat Pump System with a Latent Heat Storage Utilizing Seawater Installed in an Aquarium, Proceedings of International

Conference on Power Engineering-03 (ICOPE-03), The Japan Society of Mechanical Engineers et al., **Paper No.A309**, Kobe, Japan, November 9-13, 2003, pp.3-45-3-50.

18. S. Okamoto\* and R. Nanba : Wind Induced Vibration of Roof Tiles, CD-ROM Proceedings of The International Modal Analysis Conference, IMAC-XXII, **Paper No.#19**, Dearborn, Michigan, U.S.A., January 26-29, 2004.
19. S. Okamoto\* and R. Nanba : Wind induced vibration analysis of roof tiles, Proceedings of The 8<sup>TH</sup> International Conference on Flow-Induced Vibration, FIV2004, Paris, France, July 6-9, 2004, pp.397-402.
20. S. Okamoto\* and R. Nanba : Wind Effect on Behavior of Roof Tiles, CD-ROM Proceedings of The Third International Conference on Advances in Structural Engineering and Mechanics, ASEM04, Seoul, Korea, September 2-4, 2004, pp.799-805.
21. S. Okamoto\*: Economical and Environmental Aspects of Heat Pump System Utilizing Unused Energy in Aquarium, CD-ROM Proceedings of ASME Power Conference 2004, The American Society of Mechanical Engineers, **Paper No.2004-52101**, Baltimore, Maryland, U.S.A., March 30-April 1, 2004.
22. S. Okamoto\* : Assessment of Heat Pump System Utilizing Unused Energy in Aquarium: Cost Analysis and Energy Consumption, CD-ROM Proceedings of 2<sup>nd</sup> International Energy Conversion Engineering Conference and Exhibit, American Institute of Aeronautics and Astronautics, **Paper No.2004-5651**, Providence, Rhode Island, U.S.A., 16-19 August, 2004.
23. S. Okamoto\* : A Study of Actual Conditions about Waste Heat from Factories, CD-ROM Proceedings of 3rd International Energy Conversion Engineering Conference and Exhibit, American Institute of Aeronautics and Astronautics, **Paper No.2005-5571**, San Francisco, California, U.S.A., 15-18 August, 2005.
24. S. Okamoto\* : An Analysis of Actual Conditions About Waste Heat from Factories, CD-ROM Proceedings of 4th International Energy Conversion Engineering Conference and Exhibit (American Institute of Aeronautics and Astronautics), **Paper No.2006-4055**, San Diego, California, USA, 26-29 June, 2006.
25. S. Okamoto\* : Structural Dynamics and Response of Roof Tiles under Wind Loading,

- CD-ROM Proceedings of 2006 ASME Pressure Vessels and Piping Division Conference, Vancouver, Canada, **PVP2006-ICPVT11-93046**, July 23-27, 2006.
26. S. Okamoto\* : Technical Potential of Energy Saving in a Hospital by Cogeneration System, CD-ROM Proceedings of 5th International Energy Conversion Engineering Conference and Exhibit, American Institute of Aeronautics and Astronautics, **AIAA-2007-4759**, St. Louis, Missouri, USA, 25-27 June, 2007.
27. S. Okamoto\* : Energy Saving in a Hospital: Assessing Economic and Technical Potential, The International Conference on Power Engineering – 2007 (ICOPE-2007), **Paper No.E027**, October 23-27, 2007, Hangzhou, China, 2007.
28. S. Okamoto\* : Structural Dynamics and Response of Roof Tiles under Wind Loading: Effect of Vibration on Scattering, Proceedings of IMECE2007, 2007 ASME International Mechanical Engineering Congress and Exposition, Seattle, Washington, USA, **IMECE2007-41479**, November 11-15, 2007.
29. S. Okamoto\* : Waste Heat from Chemical Factories and Paper Factories, Proceedings of IMECE2007, 2007 ASME International Mechanical Engineering Congress and Exposition, Seattle, Washington, USA, **IMECE2007-41020**, November 11-15, 2007.
30. S. Okamoto\* : Energy Consumption and Technical Potential of Energy Saving in a Hospital, The First International Conference on Building Energy and Environment (COBEE), **Paper No. TP01\_04**, DALIAN China, JULY 14-16, 2008.
31. S. Okamoto\* : Wind Tunnel Tests on Flow-Induced Vibration and Scattering of Japanese Roof Tiles, The First International Conference on Building Energy and Environment (COBEE), **Paper No. TP12\_01**, DALIAN China, JULY 14-16, 2008.
32. S. Okamoto\* : Economic and Technical Potential of Energy Saving in Hospital, CD-ROM Proceedings of 6th International Energy Conversion Engineering Conference, American Institute of Aeronautics and Astronautics, **AIAA-2008-5622**, Cleveland, OH, USA, 28-30 July, 2008.
33. S. Okamoto\* : INTERACTION BETWEEN WIND LOADING AND JAPANESE SLATES: EFFECT ON VIBRATION AND SCATTERING, CD-ROM Proceedings of 2008

ASME Pressure Vessels and Piping Division Conference, **PVP2008-61093**, Chicago, Illinois, USA, July 27-31, 2008.

34. S. Okamoto\* : WIND TUNNEL TESTS ON FLOW-INDUCED VIBRATIONS AND SCATTERING OF JAPANESE SLATES, CD-ROM Proceedings of FEDSM 2008, ASME 2008 Fluids Engineering Conference, **FEDSM2008-55016**, Jacksonville, Florida, USA, August 10-14, 2008.
35. S. Okamoto\* : ENERGY CONSUMPTION AND TECHNICAL POTENTIAL OF ENERGY SAVING IN A HOSPITAL, CD-ROM Proceedings of ES2008, ASME Energy Sustainability 2008, **ES2008-54017**, Jacksonville, Florida, USA, August 10-14, 2008.
36. S. Okamoto\* : Energy Saving by ESCO (Energy Service Company) Project in Hospital, CD-ROM Proceedings of 7th International Energy Conversion Engineering Conference, American Institute of Aeronautics and Astronautics, **AIAA-2009-4568**, Denver, Colorado, USA, August 2-5, 2009.
37. S. Okamoto\* : Effect on Slates by Wind over Roof of Japanese Residence, CD-ROM Proceedings of IMECE2009, 2009 ASME International Mechanical Engineering Congress and Exposition, The American Society of Mechanical Engineers, **CD-ROM, Paper IMECE2009-10575**, Lake Buena Vista, Florida, USA, November 13-19, 2009.
38. S. Okamoto\* : Energy Saving by ESCO (Energy Service Company) Project in Japanese Hospital, CD-ROM Proceedings of IMECE2009, 2009 ASME International Mechanical Engineering Congress and Exposition, The American Society of Mechanical Engineers, Lake Buena Vista, Florida, USA, **IMECE2009-10576**, November 13-19, 2009.
39. S. Okamoto\* : **Invited Paper**, Effect on Tiles by Wind Flow over Roof of Japanese Residence, Proceedings of 12<sup>TH</sup> International Conference on Engineering, Science, Construction, and Operations in Challenging Environments, The American Society of Civil Engineers, Honolulu, HI, USA, **Paper No.36**, March 14-17, 2010 (2010.3), pp.2179-2187.
40. S. Okamoto\* : Water Leak Tests of Tiled Roofs under Vibration and Scattering by Wind Tunnel, Proceedings of 12<sup>TH</sup> International Conference on Engineering, Science, Construction, and Operations in Challenging Environments, The American Society of Civil Engineers, Honolulu, HI, USA, **Paper No.517**, March 14-17, 2010, pp.2256-2266.

41. S. Okamoto\* : A CASE STUDY OF ENERGY SAVING BY COGENERATION SYSTEM IN HOSPITAL, CD-ROM Proceedings of the International Heat Transfer Conference, IHTC14, The American Society of Mechanical Engineers, Washington, DC, USA, **IHTC14-22107**, August 8-13, 2010.
42. S. Okamoto\* : A CASE STUDY OF ENERGY SAVING BY CCHP TECHNOLOGY IN A HOSPITAL, CD-ROM Proceedings of IMECE2010, 2010 ASME International Mechanical Engineering Congress and Exposition, The American Society of Mechanical Engineers, Vancouver, British Columbia, Canada, **IMECE2010-37348**, November 12-18, 2010.
43. S. Okamoto\* : EFFECT ON WATER LEAK OF TILED ROOFS BY WIND FLOW OVER JAPANESE RESIDENCE, CD-ROM Proceedings of IMECE2010, 2010 ASME International Mechanical Engineering Congress and Exposition, The American Society of Mechanical Engineers, Vancouver, British Columbia, Canada, **IMECE2010-37347**, November 12-18, 2010.
44. S. Okamoto\* : Saving Energy in Hospitals with CCHP, CD-ROM Proceedings of 49th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, American Institute of Aeronautics and Astronautics, **AIAA 2011-126**, Orlando, Florida, USA, 4 - 7 January 2011.
45. S. Okamoto\* : Wind Effect on Vibration and Scattering Behavior of Japanese Slate, CD-ROM Proceedings of 49th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, American Institute of Aeronautics and Astronautics, **AIAA 2011-671**, Orlando, Florida, USA, 4 - 7 January 2011.
46. S. Okamoto\* : Vibration and Scattering Monitoring of Japanese Roofing Tile by Accelerometer, CD-ROM Proceedings of IEEE 2011 International Conference on Fluid Power and Mechatronics (FPM 2011), Beijing, China, August 17-20 2011, ISBN: 978-1-4244-8449-2, pp.1-6.
47. S. Okamoto\* : Water Leak Diagnosis of Tiled Roofs under Vibration and Scattering by Wind Tunnel Experiment, CD-ROM Proceedings of IEEE 2011 International Conference on Fluid Power and Mechatronics (FPM 2011), Beijing, China, August 17-20 2011, ISBN: 978-1-4244-8449-2, pp.1-6.

48. Satoru Okamoto\* and Tetsuya Hirotsu : Investigation of Walking Motion with the Aid of Walker, CD-ROM Proceedings of the 2012 ICME, IEEE International Conference on Complex Medical Engineering, July 1 - 4,2012, Kobe, Japan, pp.74-79.
  
49. S. Okamoto\* : EVALUATION OF SKILLS IN BATTING TECHNIQUE IN BASEBALL USING ACCELERATION SENSORS, CD-ROM Proceedings of 15th International Conference on Experimental Mechanics, Porto/Portugal, 22-27 July 2012, pp.1-7.
  
50. S. Okamoto\* : Water Leak Phenomena of Tiled Roofs under Vibration and Scattering, CD-ROM Proceedings of ISEM-ACEM-SEM-7<sup>th</sup> ISEM'12-Taipei, Taipei, Taiwan 8-11 November 2012, pp.1-7.