

Tomohiro Fukuda

March 1, 2016 updated



Contact Information

Environmental Design and Information Technology laboratory, Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University

Address: 2-1, Yamadaoka, Suita, Osaka, 565-0871, JAPAN

Tel/Fax: +81-6-6879-7661

E-mail: fukuda@see.eng.osaka-u.ac.jp

Web: <http://www.dma.jim.osaka-u.ac.jp/view?l=en&u=7273>

Education

Doctor of Engineering, Osaka University, Japan, 1997/04-1999/11

Master of Engineering, Osaka University, Japan, 1994/04-1996/03

Bachelor of Engineering, Osaka University, Japan, 1990/04-1994/03

Work Experiences

Matsushita Electric Works, Ltd., 1996/04-2004/04

Associate Professor, Graduate School of Engineering, Osaka University, 2004/04-Present

Academic Publications

Journals (English)

1. Tomohiro Fukuda, Lei Sun, Bernd Resch: Mobile panorama-based virtual reality capability for on-site architectural and urban visualization, Architectural Institute of Japan, Proceedings of the 37th symposium on Computer Technology of Information, Systems and Applications, 133-138, 2014.12.

2. Tomohiro Fukuda, Tian Zhang, Nobuyoshi Yabuki: Improvement of registration accuracy of a handheld augmented reality system for urban landscape simulation, *Frontiers of Architectural Research*, Elsevier, 3(4), December 2014, 386-397. <http://dx.doi.org/10.1016/j.foar.2014.08.003>
3. Lei Sun, Tomohiro Fukuda, Bernd Resch: A synchronous distributed cloud-based virtual reality meeting system for architectural and urban design, *Frontiers of Architectural Research*, Elsevier, 3(4), December 2014, 348-357. <http://dx.doi.org/10.1016/j.foar.2014.05.001>
4. Lei Sun, Tomohiro Fukuda, Toshihiko Tokuhara, Nobuyoshi Yabuki: Differences in Spatial Understanding between Physical and Virtual Models, *Frontiers of Architectural Research*, (2014) 3, pp.28-35, 2014.3.
5. Nobuyoshi Yabuki, Takuya Onoue, Tomohiro Fukuda, Shinji Yoshida: A Heatstroke Prediction and Prevention System for Outdoor Construction Workers, *Visualization in Engineering*, 2013, Vol.1, No.11, pp.1-16 (published: 3 October 2013).
6. Tomohiro Fukuda, Yuri Queiroz Abreu Torres, Nobuyoshi Yabuki: A Real-time Information Service System using Wi-Fi Location Finding Technology during Water Transportation, *Architectural Institute of Japan, Proceedings of the 35th symposium on Computer Technology of Information, Systems and Applications*, pp.25-30, 2012.12.
7. Nobuyoshi Yabuki, Kyoko Miyashita, Tomohiro Fukuda: An Invisible Height Evaluation System for Building Height Regulation to Preserve Good Landscapes using Augmented Reality, *Automation in Construction*, Volume 20, Issue 3, pp.228-235, 2011.3.
8. Tomohiro Fukuda, Atsuko Kaga, H. Izumi, T. Terashima: Citizen Participatory Design Method using VR and a Blog as a Media in the Process, *International Journal of Architectural Computing*, Issue 02, Volume 07, pp.217-233, 2009.7.
9. Tomohiro Fukuda, K. Sakata, Wookhyun Yeo, Atsuko Kaga: Development of a High Quality Expression System of Natural Elements using the Real-time Simulation Method, *Journal for Geometry and Graphics*, Volume 11, No.1, pp.45-57, 2007.10.
10. Tomohiro Fukuda, Ryuichiro Nagahama, Atsuko Kaga, Sooyeon Oh, Tsuyoshi Sasada: Collaboration Support System for City Plans or Community Designs based on VR/CG Technology, *International Journal of Architectural Computing*, Issue 04, Volume 01, pp.461-469, 2003.12.
11. Sungho Woo, Tomohiro Fukuda, Haruyuki Kusama, Tsuyoshi Sasada: VRML Use in Bridge Environmental Design, *Journal of Civil Engineering Information Processing System*, Vol.6, pp.255-262, 1997.11.

Journals (Japanese)

51 Publications (Abbreviation).

Conference Papers (English)

1. Fukuda, Tomohiro; Mori, Keisuke and Imaizumi, Jun: Integration of CFD, VR, AR and BIM for Design Feedback in a Design Process - An Experimental Study, Proceedings of the 33rd eCAADe Conference - Volume 1, 16-18 September 2015, 665-672, 2015.9. (abstract review)
2. Tomohiro Fukuda, Hirokazu Ban, Katsuhito Yagi, and Junro Nishiie: Development of High-Definition Virtual Reality for Historical Architectural and Urban Digital Reconstruction: A Case Study of Azuchi Castle and Old Castle Town in 1581, Computer-Aided Architectural Design The Next City - New Technologies and the Future of the Built Environment, Communications in Computer and Information Science 527, 75-89, 2015.7 (full paper review)
3. Hidaka, N., Michikawa, T., Yabuki, N., Fukuda, T., and Motamedi, A.: CREATING PRODUCT MODELS FROM POINT CLOUD OF CIVIL STRUCTURES BASED ON GEOMETRIC SIMILARITY, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XL-4/W5, 137-141, doi:10.5194/isprsarchives-XL-4-W5-137-2015, 2015. (abstract review)
4. Yokoi, K., Yabuki, N., Fukuda, T., Michikawa, T., and Motamedi, A.: WAY-FINDING ASSISTANCE SYSTEM FOR UNDERGROUND FACILITIES USING AUGMENTED REALITY, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XL-4/W5, 37-41, doi:10.5194/isprsarchives-XL-4-W5-37-2015, 2015. (abstract review)
5. Fukuda, Tomohiro, Tokuhara, Toshiki and Yabuki, Nobuyoshi: Development of a Kinematic Physical Model for Building Volume Simulation, Proceedings of the 20th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2015), 241-250, 2015.5, (full paper review).
6. Toshie Hirai, Nobuyoshi Yabuki, Tomohiro Fukuda, Takashi Michikawa and Ali Motamedi: A CRIME PREVENTION SYSTEM USING ARDUINO AND COMMUNICATION MODULES, Proceedings of the Second International Conference on Civil and Building Engineering Informatics (ICCBIE2015), CD-ROM, 2015.4, (full paper review).
7. Wenxuan Chen, Nobuyoshi Yabuki, Tomohiro Fukuda, Takashi Michikawa and Ali Motamedi: DEVELOPMENT OF PRODUCT MODEL FOR HARBOR STRUCTURES DEGRADATION,

Proceedings of the Second International Conference on Civil and Building Engineering Informatics (ICCBEI2015), CD-ROM, 2015.4, (full paper review).

8. Yakui Ding, Tomohiro Fukuda, Nobuyoshi Yabuki, and Takashi Michikawa: A MEASUREMENT TOOL FOR VISIBLE GREENERY RATIO DERIVED FROM GAUSSIAN BLUR, HUE AND SATURATION FILTERING, Proceedings of the Second International Conference on Civil and Building Engineering Informatics (ICCBEI2015), CD-ROM, 2015.4, (full paper review).
9. Takashi Michikawa, Tomohiro Fukuda, and Nobuyoshi Yabuki: LOFTING-BASED SHAPE SIMPLIFICATION OF BUILDING MODELS USING VOXELIZATION, Proceedings of the Second International Conference on Civil and Building Engineering Informatics (ICCBEI2015), CD-ROM, 2015.4, (full paper review).
10. Fukuda, Tomohiro, Sun Lei and Keisuke Mori: A Synchronous Distributed Design Study Meeting Process with Annotation Function, Proceedings of the 19th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2014), pp. 749–758, 2013.5, (full paper review).
11. Ikeno, Kazunosuke, Takashi Koshiba, Yu Shimojo, Hiroki Michida, Hiroyuki Fukumoto and Tomohiro Fukuda: Relocation Design of Power Line and Utility Pole for Landscape Improvement, Proceedings of the 19th International Conference on Computer-Aided Architectural Design Research in Asia (CAADRIA 2014), pp. 921–922, (no review).
12. Kazuki Nakayama, Nobuyoshi Yabuki, Shota Tsukamoto, Tomohiro Fukuda: Data Mining and Knowledge System for Improving Energy Consumption of Buildings, Proceedings of the First International Conference on Civil and Building Engineering Informatics (ICCBEI2013), pp.147-154, 2013.11, (full paper review).
13. Takashi Tanemura, Nobuyoshi Yabuki, Tomohiro Fukuda: Diminished Reality for AR Simulation of Demolition and Removal of Urban Objects, Proceedings of the First International Conference on Civil and Building Engineering Informatics (ICCBEI2013), pp.167-174, 2013.11, (full paper review).
14. Shuhei Furubayashi, Nobuyoshi Yabuki, Tomohiro Fukuda: A Data Model for Checking Directional Signage at Railway Stations, Proceedings of the First International Conference on Civil and Building Engineering Informatics (ICCBEI2013), pp.323-330, 2013.11, (full paper review).
15. Tomohiro Fukuda, Masaharu Taguchi: Data Pipeline from BIM to Energy Simulator and Virtual Reality for Upgrading Interoperability, Proceedings of the First International Conference on Civil and Building Engineering Informatics (ICCBEI2013), pp.403-409, 2013.11, (full paper review).

16. Tomohiro Fukuda, Masaharu Taguchi: Feature of Users' Eye Movements during a Distributed and Synchronised VR Meeting using Cloud Computing, Proceedings of The 31st eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.219-226, 2013.9, (abstract review).
17. Lei Sun, Tomohiro Fukuda, Toshiki Tokuhara, Nobuyoshi Yabuki: Difference between a Physical Model and a Virtual Environment as Regards Perception of Scale, Proceedings of the 18th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2013), pp.457-466, 2013.5, (full paper review).
18. Lei Sun, Tomohiro Fukuda, Soulier Christophe: A Synchronous Distributed VR Meeting with Annotation and Discussion Functions, Proceedings of the 18th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2013), pp.447-456, 2013.5, (full paper review).
19. Qi Zhou, Nobuyoshi Yabuki, Tomohiro Fukuda: A 4D Model for Maintenance Management of Bridges, Proceedings of 2012 Australasian Conference on Innovative Technologies in Construction, pp.104-113, 2012.12, (full paper review).
20. Nobuyoshi Yabuki, T. Onoue, Tomohiro Fukuda, Shinji Yoshida: A Heatstroke Prevention System for Construction Workers Using Simulation and VR, Proceedings of the 12th International Conference on Construction Applications of Virtual Reality (conVR2012) 2012, pp.443-450, 2012.11, (full paper review).
21. Tomohiro Fukuda, Tian Zhang, Nobuyoshi Yabuki: Availability of Mobile Augmented Reality System for Urban Landscape Simulation, 9th International Conference, CDVE (Cooperative Design, Visualization, and Engineering) 2012, pp.231-238, 2012.9, (full paper review).
22. Nobuyoshi Yabuki, Shuhei Furubayashi, Yuuki Hamada, Tomohiro Fukuda: Collaborative Visualization of Environmental Simulation Result and Sensing Data Using Augmented Reality , 9th International Conference, CDVE (Cooperative Design, Visualization, and Engineering) 2012, pp.227-230, 2012.9, (full paper review).
23. Nobuyoshi Yabuki, Yuta Ashida, Tomohiro Fukuda: Cooperative Integration of Product Model and Sensor Data Model for Knowledge Discovery, 9th International Conference, CDVE 2012 (Cooperative Design, Visualization, and Engineering), pp.49-52, 2012.9, (full paper review).
24. Nobuyoshi Yabuki, Yuuki Hamada, Tomohiro Fukuda: Development of an Accurate Registration Technique for Outdoor Augmented Reality Using Point Cloud Data, 14th International Conference on Computing in Civil and Building Engineering (ICCCBE2012), 2012.6, (full paper review).

25. Tomohiro Fukuda, Tian Zhang, Ayako Shimizu, Masaharu Taguchi, Lei Sun, Nobuyoshi Yabuki: GOAR: GIS Oriented Mobile Augmented Reality for Urban Landscape Assessment, 2012 4th International Conference on Communications, Mobility, and Computing (CMC 2012), pp.183-186, 2012.5, (full paper review).
26. Lei Sun, Tomohiro Fukuda, Nobuyoshi Yabuki: Development of a 3D Modeling Method of the Real World in Nighttime, 2012 4th International Conference on Communications, Mobility, and Computing (CMC 2012), pp.171-174, 2012.5, (full paper review).
27. Tomohiro Fukuda, Tian Zhang, Ayako Shimizu, Masaharu Taguchi, Lei Sun, Nobuyoshi Yabuki: SOAR: Sensor Oriented Mobile Augmented Reality for Urban Landscape Assessment, Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2012), pp.387-396, 2012.4, (full paper review).
28. Tomohiro Fukuda, Masaharu Taguchi, Ayako Shimizu, Lei Sun: Distributed and Synchronised VR Meeting Using Cloud Computing - Availability and Application to a Spatial Design Study -, Proceedings of the 17th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2012), pp.203-210, 2012.4, (full paper review).
29. Nobuyoshi Yabuki, Emi Komori, Tomohiro Fukuda: Registration of Augmented Reality Using Four-Marker Method for Design and Construction, Proceedings of the 11th International Conference on Construction Applications of Virtual Reality (conVR) 2011, pp. 708-716, 2011.11, (full paper review).
30. Nobuyoshi Yabuki, Takayuki Kawaguchi, Tomohiro Fukuda: A 3D Modeling for Investigating Landscape of a Wide Urban Area in Virtual Reality Using Building Information Modeling Data, Proceedings of the 14th International Conference on Computer-Aided Architectural Design (CAAD Futures 2011), pp. 864-865, 2011.7, (full paper review).
31. Nobuyoshi Yabuki, Yoshihiro Yoshida, Shota Tsukamoto, Tomohiro Fukuda: Data Storage and Data Mining of Building Monitoring Data with Contexts, Proceedings of the 28th International Symposium on Automation and Robotics in Construction (ISARC2011), pp. 377-378, 2011.6, (full paper review).
32. Nobuyoshi Yabuki, Yuuki Kikushige, Tomohiro Fukuda: A Management System of Roadside Trees Using RFID and Ontology, Proceedings of the 2011 ASCE International Workshop on Computing in Civil Engineering, pp. 307-314, 2011.6, (full paper review).
33. Tomohiro Fukuda, Kensuke Kitagawa, Nobuyoshi Yabuki: A Study of Variation of Normal of Polygons Created by Point Cloud Data for Architectural Renovation Field, Proceedings of the 16th

International Conference on Computer Aided Architectural Design Research in Asia (CAADR2011), pp.321-330, 2011.4, (full paper review).

34. Tomohiro Fukuda, Kensuke Kitagawa, Nobuyoshi Yabuki: Texture Generation System from Point Cloud Data Acquired from a 3D Laser Scanner, ALGODE2011, 2011.3, (full paper review).
35. Nobuyoshi Yabuki, Kazuhiro Sugimura, Yutaka Yoshimura, Tadashi Matsumoto, Tomohiro Fukuda, Syouji Aono: Virtual Reality Simulation of Wind Power Plants Using Sound and 3D Animated Graphics, Proceedings of the 10th International Conference on Construction Applications of Virtual Reality (conVR) 2010, pp.503-511, 2010.11, (full paper review).
36. Takuya Onoue, Nobuyoshi Yabuki, Shinji Yoshida, Tomohiro Fukuda: Visualization Technique of Outdoor Thermal Environment Using a VR Avatar, Proceedings of the 10th International Conference on Construction Applications of Virtual Reality (conVR) 2010, pp.493-502, 2010.11, (full paper review).
37. Naomi Matsunaga, Nobuyoshi Yabuki, Yuichi Kameyama, Tomohiro Fukuda: Investigation of the Noh Stage Space Based on the Plot Jo-Ha-Kyu Using VR, Proceedings of the 10th International Conference on Construction Applications of Virtual Reality (conVR) 2010, pp.415-423, 2010.11, (full paper review).
38. Kensuke Kitagawa, Tomohiro Fukuda, Nobuyoshi Yabuki: Optimizing System from 3D Laser Scanner Data to a VR Model for Urban Design Study, Proceedings of the 10th International Conference on Construction Applications of Virtual Reality (conVR) 2010, pp.337-346, 2010.11, (full paper review).
39. Toshiki Tokuhara, Tomohiro Fukuda, Nobuyoshi Yabuki: Development of a City Presentation Method by Linking Viewpoints of a Physical Scale Model and VR, Proceedings of The 28th eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.747-754, 2010.9, (abstract review).
40. Yasuyo Yoshikawa, Tomohiro Fukuda, Nobuyoshi Yabuki: Development and Social Experiment for a Tourism Information Collection System by Tourists, Proceedings of The 28th eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.565-573, 2010.9, (abstract review).
41. Yuri Queiroz Abreu Torres, Tomohiro Fukuda, Nobuyoshi Yabuki: Use of a WiFi Location Estimation Service as a Tool for Presenting Real Time Information during a River Cruise, Proceedings of The 28th eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.557-564, 2010.9, (abstract review).

42. Naoki Ota, Nobuyoshi Yabuki, Tomohiro Fukuda: Development of an Accurate Positioning Method for Augmented Reality Using Multiple Markers, Proceedings of the International Conference on Computing in Civil and Building Engineering 2010 (ICCCBE), pf4, 2010.6, (full paper review).
43. Tomohiro Fukuda, Hitoshi Takeuchi: Development of Use Flow of 3DCAD/VR Software for Citizens who are Non-Specialists in City Design, Proceedings of the 15th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2010), pp.521-530, 2010.4, (full paper review).
44. Nobuyoshi Yabuki, Kyoko Miyashita, Tomohiro Fukuda: Evaluation of Invisible Height for Landscape Preservation Using Augmented Reality, Proceedings of the 9th International Conference on Construction Applications of Virtual Reality (conVR) 2009, pp.279-286, 2009.11, (full paper review).
45. Tomohiro Fukuda: Analysis of Display Luminance for Outdoor and Multi-user Use, Proceedings of the 9th International Conference on Construction Applications of Virtual Reality (conVR) 2009, pp.49-58, 2009.11, (full paper review).
46. T.H. Lorentzen, Tomohiro Fukuda, Yoshihiro Kobayashi, Yuji Ito: VR Simulation for Sustainable Transportation Planning: Public Participation in Sakai City's LRT Design, Proceedings of the 10th Intelligent Transportation Systems Asia Pacific Forum, (CD-ROM: Public Transportation System Parallel Session), pp.1-4, 2009.7, (abstract review).
47. Nobuyoshi Yabuki, Takayuki Kawaguchi, Tomohiro Fukuda: A Development Methodology of Virtual Reality Models for Urban Light Rail Transit Projects, 2009 ASCE International Workshop on Computing in Civil Engineering, pp.495-502, 2009.6, (full paper review).
48. Kobayashi Yoshihiro, Hawker Ronald, Terzidis Kostas, Narahara Taro, Abdlhameed Wael, Fukuda Tomohiro, Labarca Claudio, Calderon Carlos and Jemtrud Michael: World8: International Working Group for New Virtual Reality Applications in Architecture, T. Tidafi and T. Dorta (eds) Joining Languages, Cultures and Visions: CAAD Futures 2009, pp. 547- 556, 2009.6, (full paper review).
49. Tomohiro Fukuda: Analysis of a Mixed Reality Display for Outdoor and Multi-user Implementation, 4th ASCAAD Conference (Arab Society for Computer Aided Architectural Design), pp.323-334, 2009.5, (full paper review).
50. Takayuki Kawaguchi, Yoshihiro Nishimura, Atsumi Maruhashi, Tomohiro Fukuda, Nobuyoshi Yabuki: A Study of the Virtual Reality Simulation System for LRT Projects towards Sustainable City, Proceedings of The 14th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2009), pp.23-32, 2009.4 (full paper review).

51. Yasuyo Yoshikawa, Kyoko Miyashita, Tomohiro Fukuda, Kenichi Sakai: Verification of Possibility of Traditional House Use and the Strategy for the Revival of a Historical City, Proceedings of the 14th International Conference on Computer Aided Architectural Design Research in Asia (CAADRIA2009), pp.55-64, 2009.4, (full paper review).
52. Tomohiro Fukuda, Kenichi Sakai, Kyoko Miyashita, Yasuyo Yoshikawa: Consideration of the Important Matter to Utilize a Vacant Town House Stock for Sustainable City, ANZAsCA2008 (42nd Annual Conference of the Australian and New Zealand Architectural Science Association), pp.195-201, 2008.11, (full paper review).
53. Yuri Queiroz Abreu Torres, Tomohiro Fukuda: The Japanese and Brazilian Experience Toward Waterfront Redevelopment, Proceedings of the Symposium Brazil-Japan in Economy, Science and Technological Innovation, PAP0034 (CD-ROM), pp.1-6, 2008.6, (full paper review).
54. Atsuko Kaga, Yasuko Matsunaga, Kenichi Sakai, Tomohiro Fukuda: Construction of the Design Support System for the Public Space Design in which a Citizen Participates, Proceedings of the 13th International Conference on Computer Aided Architectural Design Research in Asia, pp.426-432, 2008.4, (full paper review).
55. Tomohiro Fukuda, Atsuko Kaga, Takanori Terashima: Citizen Participatory Design Method Using VR and Blog, Proceedings of the 13th International Conference on Computer Aided Architectural Design Research in Asia, pp.271-277, 2008.4, (full paper review).
56. Tomohiro Fukuda, Atsuko Kaga, Yosuke Takada: Development and Evaluation of a Representation Method of 3DCG Pre-rendering Animation for Environmental Design, Proceedings of the 13th International Conference on Computer Aided Architectural Design Research in Asia, pp.14-21, 2008.4, (full paper review).
57. Atsuko Kaga, Atsushi Miyagawa, Tomohiro Fukuda: Construction of a Participatory Community Space Design System, 25th eCAADe Conference Proceedings, Frankfurt am Main (Germany), pp.99-106, 2007.9, (abstract review).
58. Atsuko Kaga, Masahiro Kawaguchi, Tomohiro Fukuda: Simulation of a Historic Building Using a Tablet MR System, Proceedings of the 12th International Conference on Computer Aided Architectural Design Futures, Sydney (Australia), pp.45-58, 2007.7, (full paper review).
59. Tomohiro Fukuda, Atsuko Kaga, Masahiro, Kawaguchi, Wookhyun Yeo: Development of Soil Calculation Function in a 3-D VR System for Environmental Design, Proceedings of the 12th International Conference on Computer Aided Architectural Design Research in Asia, pp.593-598, 2007.4, (full paper review).

60. Atsuko Kaga, Joohyung Hahm, Tomohiro Fukuda: Construction of a Dynamic Environmental Knowledge Web for a Sustainable Environmental Design, Proceedings of the 12th International Conference on Computer Aided Architectural Design Research in Asia, pp.295-300, 2007.4, (full paper review).
61. Reika Sato, Tomohiro Fukuda, Atsuko Kaga: Psychological Effects on Viewers by Virtual Reality Replication of Cultural Heritage, DACH2007 (The 2007 International Conference on Digital Applications in Cultural Heritage), pp.55-70, 2007.1, (abstract review).
62. Atsuko Kaga, Tomohiro Fukuda: The Digital Archive and Simulation of Japan in a Historical Building, DACH2007 (The 2007 International Conference on Digital Applications in Cultural Heritage), Invited Speech, pp.109-121, 2007.1, (abstract review).
63. Tomohiro Fukuda, Ryuichiro Nagahama: Consideration of Historical City Area Activation Design Study Method by VR Use: Case Study on Matsue City, DACH2007 (The 2007 International Conference on Digital Applications in Cultural Heritage), pp.177-190, 2007.1, (abstract review).
64. Naomi Matsunaga, Tomohiro Fukuda, Atsuko Kaga: Systemization of Architectural Design through Advancement of Information and Communication Technology: Possibilities of a Life-theory Approach, Proceedings of The 24th eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.548-551, 2006.9, (abstract review).
65. Tomohiro Fukuda, Masahiro Kawaguchi, Wookhyun Yeo, Atsuko Kaga: Development of the Environmental Design Tool Tablet MR On-Site by Mobile Mixed Reality Technology, Proceedings of The 24th eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.84-87, 2006.9, (abstract review).
66. Tomohiro Fukuda, Kazuhiro Sakata, Wookhyun Yeo, Atsuko Kaga: Development and Evaluation of a Close-Range View Representation Method of Natural Elements in a Real-Time Simulation for Environmental Design, Proceedings of The 24th eCAADe (Education and Research in Computer Aided Architectural Design in Europe), pp.58-65, 2006.9, (abstract review).
67. Tomohiro Fukuda, Kazuhiro Sakata, Wookhyun Yeo, Atsuko Kaga: Development of a High Quality Expression System of Natural Elements using the Real-Time Simulation Method, 12th International Conference on Geometry and Graphics, A12, ISBN85-86686-38-7, 2006.8, (full paper review).
68. Tomohiro Fukuda, Nobuaki Okamoto, Wookhyun Yeo, Atsuko Kaga: Development of an Asynchronous Distributed Type Design Process Support System Using a Blog and Real-Time Simulation Technologies, Proceedings of The 11th International Conference on Computer Aided Architectural Design Research in Asia, pp.625-628, 2006.4, (abstract review).

69. Wookhyun Yeo, Tomohiro Fukuda, Atsuko Kaga, Sooyeon Oh: Study of making Network Typed Real-time Simulation using Database, Proceedings of The 11th International Conference on Computer Aided Architectural Design Research in Asia, pp.609-612, 2006.4, (abstract review).
70. Atsuko Kaga, Atsushi Miyagawa, Masahiro Kawaguchi, Wookhyun Yeo, Tomohiro Fukuda: Landscape Evaluation System using a 3D Space Model and a Cellular Phone with GPS Camera, Proceedings of The 11th International Conference on Computer Aided Architectural Design Research in Asia, pp.503-512, 2006.4, (abstract review).
71. Tomohiro Fukuda, Nobuaki Okamoto, Atsuko Kaga: Development of 3DBLOG: VR-BLOG System Which Supports Network Collaboration, Proceedings of the 9th Iberoamerican Congress of Digital Graphics, pp.327-332, 2005.11, (abstract review).
72. Sooyeon Oh, Akiko Nezu, Wookhyun Yeo, Tomohiro Fukuda, Atsuko Kaga, Tsuyoshi Sasada: Using an Interactive Design System Based on Multi Media Mixing in the Environmental Design Planning Stage, Proceedings of the 3rd International Conference on Innovation in Architecture, Engineering and Construction(ACE), pp.93-103, 2005, (abstract review).
73. Wookhyun Yeo, Yasuyuki Yuda, Tomohiro Fukuda, Atsuko Kaga, Tsuyoshi Sasada: Development of the CAADRIA Abstract Reviewer System, Proceedings of The 10th International Conference on Computer Aided Architectural Design Research in Asia, pp.198-208, Vol.1, 2005.4, (abstract review).
74. Wookhyun Yeo, Toshio Motoi, Tomohiro Fukuda, Atsuko Kaga, Tsuyoshi Sasada: Analysis and Development of Real-Time Simulation for Environmental Design, Proceedings of the 10th International Conference on Computer Aided Architectural Design Research in Asia, pp.5-14, Vol.2, 2005.4, (abstract review).
75. Atsuko Kaga, Yasuyuki Yuda, Tomohiro Fukuda, Sooyeon Oh: Research on the Design Technique Begun from Human Activity in an Environmental Design, Proceedings of The 10th International Conference on Computer Aided Architectural Design Research in Asia, pp.26-42, Vol.2, 2005.4, (abstract review).
76. Tomohiro Fukuda, Atsuko Kaga, Ryuichiro Nagahama, Nobuyuki Shibano, Tsuyoshi Sasada, Yu-Tung Liu: The World's Largest VR-Dome for Collaborative Design, Proceedings of The 10th International Conference on Computer Aided Architectural Design Research in Asia, pp.203-213, Vol.2, 2005.4, (abstract review).
77. Tomohiro Fukuda, Ryuichiro Nagahama, Atsuko Kaga, Sooyeon Oh, Tsuyoshi Sasada: Collaboration Support System for City Plans or Community Designs based on VR/CG Technology, Proceedings of

The 7th International Conference on Computer Aided Architectural Design Research in Asia, pp.257-264, 2002.4, (abstract review).

78. Tomohiro Fukuda, Ryuichiro Nagahama, Atsuko Kaga, Sooyeon Oh, Tsuyoshi Sasada: Collaboration Support System for Nightscape Design based on VR Technology, Proceedings of The Sixth Conference on Computer Aided Architectural Design Research in Asia, pp.103-111, 2001.4, (abstract review).
79. Tomohiro Fukuda, Ryuichiro Nagahama, Sooyeon Oh, Atsuko Kaga, Tsuyoshi Sasada: Collaboration Support System for Nightscape Design Based on VR Technologies, Proceedings of The Fifth Conference on Computer Aided Architectural Design Research in Asia, pp.501-510, 2000.5, (abstract review).
80. Tomohiro Fukuda, Ryuichiro Nagahama, Tsuyoshi Sasada: Collaboration Support System for Public Design, Proceedings of The Third Conference on Computer Aided Architectural Design Research in Asia, pp.299-307, 1998.4, (abstract review).
81. Tomohiro Fukuda, Ryuichiro Nagahama, Tsuyoshi Sasada: Networked Interactive 3-D Design System for Collaboration, Proceedings of The Second Conference on Computer Aided Architectural Design Research in Asia, pp.429-437, 1997.4, (abstract review).
82. Tomohiro Fukuda, Ryuichiro Nagahama, Junji Nomura: Networked VR System: Kitchen Layout Design for Customers, VRML97 Second Symposium on the Virtual Reality Modeling Language, pp.93-100, 1997.2, (abstract review).
83. Haruyuki Kusama, Tomohiro Fukuda, Junwoo Park, T. Sasada: Networked CAD System for Designer Group, Proceedings of The First Conference on Computer Aided Architectural Design Research in Asia, pp.153-161, 1996.4, (abstract review).

Conference Papers (Japanese)

68 Publications (Abbreviation).

Contributed article (English)

1. Tomohiro Fukuda: The Current Developments of Green Design in Japan and Applications at Osaka University, 包装学報 (Packaging Journal) , Vol.2, No.3, 2010.7.
2. Tomohiro Fukuda: Kobunaki Ecovillage, Modern Decoration, May issue, pp.20-25, 2006.5.

Contributed article (Japanese)

64 Publications (Abbreviation).

Books (Japanese)

5 Publications (Abbreviation).

Award

1. Best Presentation Award, The 6th Conference on Computer Aided Architectural Design Research in Asia, 2001.4.

Other 11 awards (in Japan), Total 12 awards

Invited Lecture

1. Tomohiro Fukuda: Recent Projects from Greece to Tokyo, The 8th International VR Symposium, Tokyo, 2015.11.20.
2. Tomohiro Fukuda: New Applications of Virtual / Augmented Reality in Architecture and Urban Field, Design Workshop “The Evolution of Design Thinking”, Asia University, Taiwan, 2015.11.18.
3. Tomohiro Fukuda: A Kinematic Physical Model combined with a 3D Model for Building Volume Simulation, Intl’ VR Symposium, The 6th Summer Workshop in Θεσσαλονίκη, Greece, 2015.6.30.
4. Tomohiro Fukuda: Recent Challenges for Acting Aging + Gender Era In Japan: Observations and Experiences, Gest Talk to students of MSc. in Advanced Environmental Planning Technologies and MSc. in Housing Studies in the “Elderly + Gender Housing Workshop”, Chinese University of Hong Kong (香港中文大学), Hong Kong 2015, 2015.5.18.
5. Tomohiro Fukuda: A Real-time Architectural and Urban Planning System using VR-Cloud, The 7th International VR Symposium, Tokyo, 2014.11.22.
6. Tomohiro Fukuda: 3D Visualization Technologies for Urban Landscape Design, Public Lecture at Chinese University of Hong Kong (香港中文大学), Hong Kong, 2014.10.14.
7. Tomohiro Fukuda: Environmental Design Projects for Urban Space, Landscape and Human

Integration using ICT, Public Lecture at Chinese University of Hong Kong (香港中文大学), Hong Kong, 2014.10.13.

8. Tomohiro Fukuda: A Distributed Synchronous Design Meeting Process using Cloud-VR Sketch Function, International VR Symposium The 5th Summer Workshop in Hawaii, Hawaii, 2014.7.8.
9. Tomohiro Fukuda: 3D·BIM·VR to design project and VR Cloud applied research, Keynote Lecture, Forum8 VR/FEM Engineering Seminar in Taiwan, Taipei, 2014.4.23.
10. Tomohiro Fukuda: 3D Visualization Technologies for Urban and Architectural Design, Special Lecture at Yonsei University, Yonsei University, Seoul, 2014.3.7.
11. Tomohiro Fukuda: Two “Cloud” Technologies for Environmental Design: Point Cloud Optimization and Cloud Computing Type VR, The 5th International VR Symposium, Tokyo, 2011.11.16.
12. Tomohiro Fukuda: Developments and Applications of Environmental Design and IT Tools, Korea Electronics Show 2011, Seoul, 2011.10.14.
13. Tomohiro Fukuda: Environmental Design and Information technology at Osaka University, DESIGN RESEARCH SUPERVISION: A Roundtable Discussion for Students and supervisors, CAADRIA2011 (The 16th Conference on Computer Aided Architectural Design Research in Asia), Newcastle City Hall, 2011.4.28.
14. Tomohiro Fukuda: Development of Optimizing System from 3D Laser Scanner Data to VR for Urban Design Study, The 4th International VR Symposium, Tokyo, 2010.11.18.
15. Tomohiro Fukuda: Development of Optimizing System from 3D Laser Scanner Data to VR for Urban Design Study, International VR Summer Workshop, University of California, Santa Barbara, 2010.7.22.
16. Tomohiro Fukuda: Citizen participatory environmental design process and tools, 2010 International Conference on Green Design, Hunan University Of Technology, China, 2010.5.22.
17. Tomohiro Fukuda: The current developments green design in Japan and application at Osaka university, 2010 International Conference on Green Design, Hunan University of Technology, China, 2010.5.22.
18. Tomohiro Fukuda: Development of a city presentation method by linking a viewpoint between physical model and VR, The 3rd International VR Symposium, Tokyo, 2009.11.19.
19. Tomohiro Fukuda: VR for wide-spread use, for enhancement, International VR Summer Workshop, Hakone, 2009.7.30.

20. Tomohiro Fukuda: 3DCG/VR for Environmental Design Traffic Simulation, Human Activity, Easy Modeling, The 2nd International VR Symposium, Tokyo, 2008.11.19.
21. Tomohiro Fukuda: Environmental Design & 3DCG/VR, International VR Summer Workshop, Arizona State University, Tempe, USA, 2008.8.14.
22. Tomohiro Fukuda: Environmental Design & 3DCG/VR, The 1st International VR Symposium, Tokyo, 2007.11.20.

Other 89 invited lectures (in Japan), Total 111 invited lectures

Media Report

108 Media Reports (Abbreviation).

Research Grants

36 Reseach Grants (Abbreviation).

Academic Service

1. President, CAADRIA (The Association for Computer-Aided Architectural Design Research in Asia), 2012.5 – 2014.5.
2. Membership Officer, CAADRIA (The Association for Computer-Aided Architectural Design Research in Asia), 2010.4 – 2012.4.
3. Representative, Architectural Institute of Japan, 2014.4-2016.3
4. Scientific Committee, ICCCB2016 (16th International Conference on Computing in Civil and Building Engineering), Osaka International Convention Center (Grand Cube Osaka), Osaka, 2016.
5. Organizing Committee, ICCCB2016 (16th International Conference on Computing in Civil and Building Engineering), Osaka International Convention Center (Grand Cube Osaka), Osaka, 2016.
6. Scientific Committee, ICCBEI2015 (2nd International Conference on Civil and Building Engineering Informatics), Tokyo Convention Hall, Tokyo, 2015.
7. Organizing Committee, ICCBEI2015 (2nd International Conference on Civil and Building

- Engineering Informatics), Tokyo Convention Hall, Tokyo, 2015.
8. Organizing Committee, CAADRIA2014 (The 19th International Conference of the Association for Computer-Aided Architectural Design Research in Asia), Kyoto Institute of Technology, Kyoto, 2013–2014.
 9. Organizing Committee, ICCBEI2013 (1st International Conference on Civil and Building Engineering Informatics), Tokyo International Exchange Center, Plaza Heisei, Tokyo, 2013.
 10. Organizing Committee, CDVE2012 (9th International Conference on Cooperative Design, Visualization and Engineering), Shin-Osaka Washington Hotel Plaza, Osaka, 2012.
 11. Organizing Committee, conVR2010 (10th International Conference on Construction Applications of Virtual Reality), Sendai International Center in Sendai, 2010–11.
 12. Conference Manager, CAADRIA2006 Kumamoto (The 11th Conference on Computer-Aided Architectural Design Research in Asia), Kumamoto University, 2005–2006.4.
 13. Award/Scholarship Committee Chair, CAADRIA2015 (The 20th Conference on Computer Aided Architectural Design Research in Asia), Kyungpook National University, Daegu, Korea, 2015.5.
 14. Best Paper Award Committee, CAADRIA2011 (The 16th Conference on Computer Aided Architectural Design Research in Asia), Newcastle City Hall, Newcastle, Australia, 2011.4.
 15. Best Paper Award Committee, CAADRIA2010 (The 15th Conference on Computer Aided Architectural Design Research in Asia), Chinese University of Hong Kong, Hong Kong, 2010.4.
 16. CONVR Best Presentation Panel, conVR2009 (The 9th International Conference on Construction Applications of Virtual Reality), Sydney University, Sydney, Australia, 2009.11.
 17. Best Paper Award Committee, CAADRIA2007 (The 12th Conference on Computer Aided Architectural Design Research in Asia), Southeast University, Nanjing, China, 2007.4.
 18. International Journal of Architectural Computing, Issue 04, Volume 05, Senior Editor, 2007.12.
 19. International Journal of Architectural Computing, Reviewer, 2009, 2011.
 20. Visualization in Engineering, Reviewer, 2013-Present.
 21. Cities, Reviewer, 2013-Present.
 22. Frontiers of Architectural Research, Reviewer, 2013-Present.
 23. CAADRIA (Computer Aided Architectural Design Research in Asia), Reviewer, 2004-Present.

24. IPC 2015 (First International Conference on Innovative Production and Construction) , Reviewer, 2015.
25. CAAD Futures 2015 (16th International Conference on Computer-Aided Architectural Design Futures), Reviewer, 2015.
26. ICCCBEI2015 (2nd International Conference on Computing in Civil and Building Engineering informatics), Reviewer, 2015.
27. ICCCBEI2013 (1st International Conference on Computing in Civil and Building Engineering informatics), Reviewer, 2013.
28. ICCCBE2012 (14th International Conference on Computing in Civil and Building Engineering), Reviewer, 2011.
29. CMC2012 (2012 4th International Conference on Communications, Mobility, and Computing), Reviewer, 2011.
30. eCAADe2012 (Education and Research in Computer Aided Architectural Design in Europe), Reviewer, 2011.
31. ITC2012 (2012 Australasian Conference on Innovative Technologies in Construction), Reviewer, 2012.
32. EuropIA 13 (13th International Conference on Advances in Design Sciences and Technology), Reviewer, 2011.
33. conVR2010 (The 10th International Conference on Construction Applications of Virtual Reality), Reviewer, 2010.
34. ANZAScA (Annual conference of the Australian and New Zealand Architectural Science Association), Reviewer, 2008-2009.
35. ASCAAD (Arab Society for Computer Aided Architectural Design), Reviewer, 2007-2009.
36. Session Chair, CAAD Futures 2015 (16th International Conference on Computer-Aided Architectural Design Futures), MASP (São Paulo Museum of Art), São Paulo, Brasil, 2015.7.
37. Session Chair, CAADRIA2015 (The 20th Conference on Computer Aided Architectural Design Research in Asia), Kyungpook National University, Daegu, Korea, 2015.5.
38. Session Chair, CAADRIA2014 (The 19th Conference on Computer Aided Architectural Design Research in Asia), Kyoto Institute of Technology, 2014.5.

39. Session Chair, ICCCBEI2013 (1st International Conference on Computing in Civil and Building Engineering informatics), Tokyo, Japan, 2013.11.
40. Session Chair, CAADRIA2013 (The 18th Conference on Computer Aided Architectural Design Research in Asia), National University of Singapore, 2013.5.
41. Session Chair, CMC2012 (4th International Conference on Communications, Mobility, and Computing), Guilin, China, 2012.5.
42. Session Chair, CAADRIA2011 (The 16th Conference on Computer Aided Architectural Design Research in Asia), Newcastle City Hall, 2011.4.
43. Session Chair, CAADRIA2010 (The 15th Conference on Computer Aided Architectural Design Research in Asia), Chinese University of Hong Kong, 2010.4.
44. Session Chair, conVR2010 (The 10th International Conference on Construction Applications of Virtual Reality), Sendai International Center in Sendai, 2010.11.
45. Session Chair, conVR2009 (The 9th International Conference on Construction Applications of Virtual Reality), Sydney University, 2009.11.
46. Session Chair, CAADRIA2009 (The 14th Conference on Computer Aided Architectural Design Research in Asia), National Yunlin University of Science & Technology, 2009.4.
47. Session Chair, ANZAScA2008 (Architectural Science Association 42nd Annual Conference), Newcastle, Australia, 2008.11.
48. Session Chair, DACH2007 (The 2007 International Conference on Digital Applications in Cultural Heritage), The National Center for Research and Preservation of Cultural Properties, 2007.1.

Other 50 items (in Japan), Total 98 items

Social/Professional Service

67 Items (Abbreviation).