[Resume]

Name	**Izuru Takewaki**
Position	Professor of Building Geoenvironment Engineering (2003.10-), Associate Dean of Graduate School of Engineering (2008.4.1-2012.3.31) Vice-President of Architectural Institute of Japan (2013.5-2015.5) President of Architectural Institute of Japan (2019.5-2021.5)
Institution	Kyoto University
Country	Japan
Age	63 (Male)

Address (2010.4-)

Dept. of Architecture and Architectural Engineering, Graduate School of Engineering,
Kyoto University, Kyotodaigaku-Katsura, Nishikyo-ku, Kyoto 615-8540, Japan

(Dept. of Urban and Environmental Engineering until March 31, 2010)

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Date of birth

September 11, 1957

Education and research

Bachelor of Engineering, Kyoto University, 1980
Master of Engineering, Kyoto University, 1982
Doctor of Engineering, Kyoto University, 1991
Visiting Researcher at University of California, Berkeley, 1989-1990
Visiting Professor at University of California, San Diego, 2005
Guest of Churchill College, Cambridge University 2008
Adjunct Professor at Wessex Institute of Technology, UK, 2011

Research interest :

Inverse problem in vibration	structural optimization
soil-structure interaction	seismic resistant design of building structures
random vibration theory	critical excitation method
structural reliability	structural dynamics
systematization of structural design process	system identification & health monitoring
construction of design earthquake	surface ground analysis
robust structural design	seismic retrofitting of school buildings
structural control	passive control

Useful web site for research interest
http://www.scitopics.com/authorprofile.jsp?userid=1054
http://www.ar.t.kyoto-u.ac.jp/ja/information/laboratory/ground_enviro/index_html
http://www.bge.archi.kyoto-u.ac.jp/index-e.html

MAJOR EARTHQUAKE ENGINEERING CONTRIBUTIONS:

Contributions in

(i)	introduction of concept of inverse problems in building structural design
(ii)	development of advanced mathematical treatment of building structural design under soil-structure interaction
(iii)	development of advanced theory for optimal passive damper placement
(iv)	development of innovative passive control systems
(v)	development of new critical excitation methods for constructing design earthquakes
(vi)	development of new critical excitation methods using double, triple and multi impulses
(vii)	development of advanced and innovative system identification methods
(viii)	development of new robust structural design methods under structural and load uncertainties

Award

The Encouragement Prize of Architectural Institute of Japan 1990（日本建築学会奨励賞）, 'Earthquake-response Constrained Design of Pile-supported Elastic Shear Buildings for Site-dependent Response Spectra'.

The Prize of Architectural Institute of Japan for Research Thesis 2004（日本建築学会賞）, 'Design Method for Building Structures via a Hybrid
control system for greater resilience using multiple isolation
and building connection Inverse Problem Approach'.

Fellow of Wessex Institute of Great Britain, July 12, 2004（英国ウェセックス工科大フェロー）

2008 Paper of the Year（J. of The Structural Design of Tall and Special Buildings)（高層および特殊建物の構造設計に関する国際専門誌の 2008 年度最優秀論文賞）
I.Takewaki and K.Fujita, Earthquake Input Energy to Tall and Base-isolated Buildings in Time and Frequency Dual Domains, *J. of The Structural Design of Tall and Special Buildings*, Vol.18, No.6, pp589–606, 2009 (online publishing in 2008).

2014 年度　日本建築学会著作賞（**The Prize of Architectural Institute of Japan for Book in 2014**）
I.Takewaki, A.Moustafa and K.Fujita, *Improving the Earthquake Resilience of Buildings: The worst case approach*, Springer (London), July, 2012.

2015： Inclusion among the four contributions featured on the homepage of the Frontiers publishing platform (www.frontiersin.org) from 20 through 26 August, 2015. Speciafically chosed because of the considerable number of views and downloads they obtained and their societal importance (Earthquake Engineering).
* K.Kojima and I.Takewaki, Critical earthquake response of elastic-plastic structures under near-fault ground motions (Part 1: Fling-step input), *Frontiers in Built Environment* (Specialty Section: Earthquake Engineering), Volume 1, Article 12, 2015.
* K.Kojima and I.Takewaki, Critical earthquake response of elastic-plastic structures under near-fault ground motions (Part 2: Forward-directivity input), *Frontiers in Built Environment* (Specialty Section: Earthquake Engineering), Volume 1, Article 13, 2015.

2016： **Specialty Section Development Award in Frontiers SA (Switzerland): presented at the second chief editors summit**

2017： **Community Fund in Frontiers SA (Switzerland)**

Membership

Architectural Institute of Japan (Member 1980-), Director (Science) of AIJ (2007.6-2009.5), Auditor of AIJ (2010.6-2012.5), Vice-President in charge of research (2013.5-2015.5), President (2019.5-2021.5)

Japan Society for Earthquake Engineering Promotion
Japan Association for Earthquake Engineering
American Society of Civil Engineers (USA), Member of SEI(Structural Engiineering Institute) and EMI(Engineering Mechanics Institute), Member of Dynamics Committee
Earthquake Engineering Research Institute (USA)
American Academy of Mechanics (AAM)
International Society for Structural and Multidisciplinary Optimization (ISSMO)
International Society for Computational Engineering & Sciences (ISCES)
Japan Society of Seismic Isolation
Japan Society of Steel Construction
Member of Science Council of Japan (Oct. 1, 2020-)

Reviewer

International Journal of Solids & Structures
International Journal of Computers & Structures
Journal of Sound & Vibration
Earthquake Engineering & Structural Dynamics
Soil Dynamics and Earthquake Engineering
ISET Journal of Earthquake Technology
International Journal of Structural Engineering and Mechanics
International Journal of Advances in Structural Engineering
Theoretical and Applied Mechanics
Journal of Engineering Mechanics, ASCE
Journal of Structural Engineering, ASCE
Journal of the Franklin Institute
Engineering Structures
External Reviewer for Assessing Grants Proposal for Research Grants Council, Hong Kong 2005, 2008, 2009
Structural Control and Health Monitoring
Interaction and Multiscale Mechanics, *An international journal*
Journal of Earthquake Engineering
Journal of Zhejiang University-SCIENCE A
Bulletin of Earthquake Engineering (European Association for Earthquake Engineering)
Earthquakes and Structures (EAS): *An International Journal* of Earthquake Engineering and Earthquake Effects on Structures
Applied Ocean Research, Elsevier
Structure and Infrastructure Engineering
Probabilistic Engineering Mechanics
External reviewer of 2011 FONDECYT National Research Funding Competition organized by Chilean government research funding agency
Inverse Problems in Science & Engineering
Journal of the Structural Design of Tall and Special Buildings
Nuclear Engineering and Design

Earthquake Engineering and Engineering Vibration
Proceedings of the Institution of Mechanical Engineers, Part C, Journal of Mechanical Engineering Science
Sustainable Cities and Society
Shock and Vibration
Computer-Aided Civil and Infrastructure Engineering
Frontiers in Built Environment (Specialty Section: Earthquake Engineering)

Publication:
(Int. Jour.)

1	T.Nakamura and I.Takewaki : Optimum Building Design for Forced-mode Compliance, *Journal of Engineering Mechanics, American Society of Civil Engineers*, Vol.111, No.9, pp1159-1174, 1985.
2	T.Nakamura and I.Takewaki : Ductility Design via Optimum Design of Nonlinear Elastic Frames, *Journal of Structural Engineering, American Society of Civil Engineers*, Vol.115, No.3, pp608-625, 1989.
3	T.Nakamura and I.Takewaki : Optimal Elastic Structures with Frequency-dependent Elastic Supports, *International Journal of Solids and Structures*, Vol.25, No.5, pp539-551, 1989.
4	I.Takewaki, J.P.Conte, S.A.Mahin and K.S.Pister : A Unified Earthquake-resistant Design Method for Steel Frames Using ARMA Models, *Earthquake Engineering and Structural Dynamics*, Vol.20, No.5, pp483-501, 1991.
5	I.Takewaki, J.P.Conte, S.A.Mahin and K.S.Pister : Probabilistic Multi-objective Optimal Design of Seismic-resistant Braced Steel Frames Using ARMA Models, *Computers & Structures*, Vol.41, No.4, pp687-707, 1991.
6	T.Nakamura, M.Tsuji and I.Takewaki : Design of Steel Frames for Specified Seismic Member Ductility via Inverse Eigenmode Formulation, *Computers & Structures*, Vol.47, No.6, pp1017-1030, 1993.
7	I.Takewaki and T.Nakamura : Hybrid Inverse Mode Problems for FEM-Shear Models, *Journal of Engineering Mechanics, American Society of Civil Engineers*, Vol.121, No.8, pp873-880, 1995.
8	I.Takewaki, T.Nakamura and Y.Arita : A Hybrid Inverse Mode Problem for Fixed-Fixed Mass-Spring Models, *Journal of Vibration and Acoustics, American Society of Mechanical Engineers*, Vol.118, No.4, pp641-648, 1996.
9	I.Takewaki : Semi-explicit Optimal Frequency Design of Chimneys with Geometrical Constraints, *Finite Elements in Analysis and Design*, Vol.23, No.1, 37-56, 1996.
10	I.Takewaki : Optimal Frequency Design of Tower Structures via an Approximation Concept, *Computers & Structures*, Vol.58, No.3, pp445-452, 1996.
11	I.Takewaki : Design-Oriented Approximate Bound of Inelastic Responses of a Structure under Seismic Loading, *Computers & Structures*, Vol.61, No.3, pp431-440, 1996.
12	T.Nakamura, I.Takewaki and Y.Asaoka : Sequential Stiffness Design for Seismic Drift Ranges of a Shear Building-pile-soil System, *Earthquake Engineering and Structural Dynamics*, Vol.25, pp1405-1420, 1996.
13	I.Takewaki : Efficient Optimal Frequency Design of Elastically-Supported Distributed-Parameter Cantilevers, *Computers & Structures*, Vol.62, No.1, pp107-117, 1997.
14	I.Takewaki : Elastic Frame Redesign via a Performance-based Incremental Inverse Problem, *Computers & Structures*, Vol.63, No.2, pp217-224, 1997
15	I.Takewaki and T.Nakamura : Hybrid Inverse Mode Problem for Structure-Foundation Systems, *Journal of Engineering Mechanics, American Society of Civil Engineers*, Vol.123, No.4, pp312-321, 1997.

16	I.Takewaki : Efficient Semi-Analytical Generator of Initial Stiffness Designs for Steel Frames under Seismic Loading (Part 1 Fundamental frame), *J. of The Structural Design of Tall Buildings*, Vol.6, No.2, pp151-162, 1997.
17	I.Takewaki : Efficient Semi-Analytical Generator of Initial Stiffness Designs for Steel Frames under Seismic Loading (Part 2 Slender frame), *J. of The Structural Design of Tall Buildings*, Vol.6, No.2, pp163-170, 1997.
18	I.Takewaki : Design-Oriented Ductility Bound of a Plane Frame under Seismic Loading, *Journal of Vibration and Control*, Vol.3, No.4, pp411-434, 1997.
19	I.Takewaki : Incremental Inverse Eigenmode Problem for Performance-based Structural Redesign, *Finite Elements in Analysis and Design*, Vol.27, No.2, pp175-191, 1997.
20	I.Takewaki : Efficient Redesign of Damped Structural Systems for Target Transfer Functions, *Computer Methods in Applied Mechanics and Engineering*, Vol.147, No.3/4, pp275-286, 1997.
21	I.Takewaki : Optimal Damper Placement for Minimum Transfer Functions, *Earthquake Engineering and Structural Dynamics*, Vol.26, No.11, pp1113-1124, 1997.
22	I.Takewaki : Equivalent Linear Ductility Design of Soil-Structure Interaction Systems, *Engineering Structures*, Vol.20, No.8, pp655 - 662, 1998.
23	I.Takewaki : Optimal Damper Positioning in Beams for Minimum Dynamic Compliance, *Computer Methods in Applied Mechanics and Engineering*, Vol.156, Nos.1-4, pp363-373, 1998.
24	I.Takewaki : Relation of a Frequency-Dependent Structure with the Corresponding Frequency-Independent Structure, *International Journal of Solids and Structures*, Vol.35, No.15, pp1785-1791, 1998.
25	I.Takewaki, T. Nakamura and K.Hirayama : Seismic Frame Design via Inverse Mode Design of Frame-Ground Systems, *Soil Dynamics and Earthquake Engineering*, Vol.17, No.3, pp153-163, 1998.
26	I.Takewaki and S.Yoshitomi : Effects of Support Stiffnesses on Optimal Damper Placement for a Planar Building Frame, *J. of The Structural Design of Tall Buildings*, Vol.7, No.4, pp323-336, 1998.
27	I.Takewaki : Hybrid Inverse Eigenmode Problem for a Shear Building Supporting a Finite-Element Subassemblage, *Journal of Vibration and Control*, Vol.4, No.4, pp347-360, 1998.
28	I.Takewaki : Remarkable Response Amplification of Building Frames due to Resonance with the Surface Ground, *Soil Dynamics and Earthquake Engineering*, Vol.17, No.4, pp211-218, 1998.
29	I.Takewaki : Inverse Component-mode Synthesis Method for Redesign of Large Structural Systems, *Computer Methods in Applied Mechanics and Engineering*, Vol.166, Nos.3-4, pp201-209, 1998.
30	I.Takewaki : Inverse Stiffness Design of Shear-Flexural Building Models Including Soil-Structure Interaction, *Engineering Structures*, Vol.21, No.12, pp.1045-1054, 1999.
31	I.Takewaki and K.Uetani : Efficient Redesign of Damped Large Structural Systems via Domain Decomposition with Exact Dynamic Condensation, *Computer Methods in Applied Mechanics and Engineering*, Vol.178, Nos.3-4, pp367-382, 1999.
32	I.Takewaki : Hybrid Inverse Eigenmode Problem for Top-Linked Twin Shear Building Models, *International Journal of Mechanical Sciences*, Vol.41, No.9, pp1133-1153, 1999.
33	I.Takewaki, S.Yoshitomi, K.Uetani and M.Tsuji : Non-Monotonic Optimal Damper Placement via Steepest Direction Search, *Earthquake Engineering and Structural Dynamics*, Vol.28, No.6, pp655-670, 1999.
34	I.Takewaki : Efficient Inverse Frequency Design of Tapered Beams Including Shear Deformations, *Computer Methods in Applied Mechanics and Engineering*, Vol.179, Nos.1-2, pp67-79, 1999.
35	I.Takewaki : Seismic Shear Building Design for Frequency-Dependent Supports via Hybrid Inverse Formulation, *ISET Journal of Earthquake Technology*, Vol.35, No.1-3, pp28-60, 1999.
36	I.Takewaki and K.Uetani : Optimal Damper Placement for Building Structures Including Surface Ground Amplification, *Soil Dynamics and Earthquake Engineering*, Vol.18, No.5, pp363-371, 1999.

37	I.Takewaki : Displacement-Acceleration Control via Stiffness-Damping Collaboration, *Earthquake Engineering and Structural Dynamics*, Vol.28, No.12, pp1567-1585, 1999.
38	I.Takewaki : An Approach to Stiffness-Damping Simultaneous Optimization, *Computer Methods in Applied Mechanics and Engineering*, Vol.189, No.2, pp641-650, 2000.
39	I.Takewaki : Soil-structure Random Response Reduction via TMD-VD Simultaneous Use, *Computer Methods in Applied Mechanics and Engineering*, Vol.190, Nos.5-7, pp677-690, 2000.
40	I.Takewaki : Semi-explicit Random Response and Sensitivity of a Simple SSI System, *Journal of Engineering Mechanics*, ASCE, Vol.126, No.2, pp219-222, 2000.
41	I.Takewaki : Optimal Damper Placement for Planar Building Frames Using Transfer Functions, *Structural and Multidisciplinary Optimization*, Vol.20, No.4, pp280-287, 2000.
42	I.Takewaki : Optimal Damper Placement for Critical Excitation, *Probabilistic Engineering Mechanics*, Vol.15, No.4, pp317-325, 2000.
43	I.Takewaki and K.Uetani : Inverse CMS Method for Damped Large Structural Systems, *Computers & Structures*, Vol.78, No.1-3., pp415-423, 2000.
44	I.Takewaki and M.Nakamura : Stiffness-Damping Simultaneous Identification Using Limited Earthquake Records, *Earthquake Engineering and Structural Dynamics*, Vol.29, No.8, pp1219-1238, 2000.
45	I.Takewaki, H.Sato and K.Uetani : Reduced-Basis Stiffness Inversion of a Structure- Foundation System via Component-Mode Synthesis, *J. of The Structural Design of Tall Buildings*, Vol.9, pp215-232, 2000.
46	I.Takewaki, A New Method for Nonstationary Random Critical Excitation, *Earthquake Engineering and Structural Dynamics*, Vol.30, No.4, pp519-535, 2001.
47	I.Takewaki, Nonstationary Random Critical Excitation for Nonproportionally Damped Structural Systems, *Computer Methods in Applied Mechanics and Engineering*, Vol.190, No.31, pp3927-3943, 2001.
48	I.Takewaki, Probabilistic critical excitation for MDOF elastic-plastic structures on compliant ground, *Earthquake Engineering and Structural Dynamics*, Vol.30, No.9, pp1345-1360, 2001.
49	I.Takewaki, Nonstationary random critical excitation for acceleration response, *Journal of Engineering Mechanics*, American Society of Civil Engineers, Vol.127, No.6, pp544-556, 2001.
50	I.Takewaki, Resonance and criticality measure of ground motions via probabilistic critical excitation method, *Soil Dynamics and Earthquake Engineering*, Vol.21, No.8, pp645-659, 2001.
51	I.Takewaki, Seismic critical excitation method for robust design: a review, *Journal of Structural Engineering*, American Society of Civil Engineers, Vol.128, No.5, pp665-672, 2002.
52	I.Takewaki, Critical excitation for elastic-plastic structures via statistical equivalent linearization, *Probabilistic Engineering Mechanics*, Vol.17, No.1, pp73-84, 2002.
53	Y.Lee, I.Takewaki, K.Uetani and K.Inoue, Critical damping of structures with elastically supported visco-elastic dampers, *Earthquake Engineering and Structural Dynamics*, Vol.31, No.2, pp481-486, 2002.
54	I.Takewaki, Robust building stiffness design for variable critical excitations, *Journal of Structural Engineering*, American Society of Civil Engineers, Vol.128, No.12, pp1565-1574, 2002.
55	I.Takewaki, N.Fujii and K.Uetani, Nonlinear surface ground analysis via statistical approach, *Soil Dynamics and Earthquake Engineering* Vol.22, No.6 pp499-509, 2002.
56	I.Takewaki, N.Fujii and K.Uetani, Simplified inverse stiffness design for nonlinear soil amplification, *Engineering Structures*, Vol.24, No.11, pp1369-1381, 2002.
57	K.Uetani, M.Tsuji and I.Takewaki, Application of an Optimum Design Method to Practical Building Frames with Viscous Dampers and Hysteretic Dampers, *Engineering Structures*, Vol.25, No.5, pp579-592, 2003.
58	I.Takewaki, H.Fujimoto and K.Uetani, Computational soil-structure interaction design via inverse

	problem formulation for cone models, *An International Journal of Computational Structural Engineering*, Vol.2, No.1, pp17-26, 2003.
59	I.Takewaki, N.Takeda and K.Uetani, Fast practical evaluation of soil-structure interaction of embedded structures, *Soil Dynamics and Earthquake Engineering*, Vol.23, No.3, pp195-202, 2003.
60	I.Takewaki, Frequency Domain Modal Analysis of Earthquake Input Energy to Highly Damped Passive Control Structures, *Earthquake Engineering & Structural Dynamics*, Vol.33, No.5, pp575-590, 2004.
61	I.Takewaki, Bound of Earthquake Input Energy, *Journal of Structural Engineering*, ASCE, Vol.130, No.9, pp1289-1297, 2004.
62	I.Takewaki and H.Fujimoto, Earthquake Input Energy to Soil-Structure Interaction Systems: A Frequency-Domain Approach, *An International Journal of Advances in Structural Engineering*, Vol.7, No.5, pp399-414, 2004.
63	I.Takewaki, Critical Envelope Functions for Non-stationary random Earthquake Input, *Computers & Structures*, Vol.82, Nos.20-21, pp1671-1683, 2004.
64	I.Takewaki, Response Spectrum Method for Nonlinear Surface Ground Analysis, *An International Journal of Advances in Structural Engineering*, Vol.7, No.6, pp503-514, 2004.
65	I.Takewaki and M.Nakamura, Stiffness-damping simultaneous identification under limited observation, *Journal of Engineering Mechanics*, ASCE, Vol.131, No.10, pp1027-1035, 2005.
66	I.Takewaki and Y.Ben-Haim, Info-gap Robust Design with Load and Model Uncertainties, *Journal of Sound and Vibration*, Vol.288, Issue 3, pp551-570, 2005.
67	I.Takewaki, Frequency Domain Analysis of Earthquake Input Energy to Structure-Pile Systems, *Engineering Structures*, Vol.27, No.4, pp549-563, 2005.
68	I.Takewaki, Bound of earthquake input energy to soil-structure interaction systems, *Soil Dynamics and Earthquake Engineering*, Vol.25, Nos.7-10, pp741-752, 2005.
69	T.Ariga, Y.Kanno and I.Takewaki, Resonant behavior of base-isolated high-rise buildings under lond-period ground motions, *The Structural Design of Tall and Special Buildings*, Vol.15, No.3, pp325-338, 2006.
70	I.Takewaki, A Comprehensive Review of Seismic Critical Excitation Methods for Robust Design, *Advances in Structural Engineering*, Vol.8, No.4, pp349-363, 2005.
71	I.Takewaki and A.Kishida, Efficient Analysis of Pile-group Effect on Seismic Stiffness and Strength Design of Buildings, *Soil Dynamics and Earthquake Engineering*, Vol.25, No.5, pp355-367, 2005.
72	I.Takewaki, Uncertain-parameter Sensitivity of Earthquake Input Energy to Base-Isolated Structure. *Int. Journal of Structural Engineering and Mechanics*, Vol.20, No.3, pp347-362, 2005.
73	Y.Kanno and I.Takewaki, Robustness analysis of trusses with separable load and structural uncertainties, *Int. J. Solids and Structures*, Vol.43, No.9 pp.2646-2669, 2006.
74	Y.Kanno and I.Takewaki, Sequential Semidefinite Program for Maximum Robustness Design of Structures under Load Uncertainties, *Journal of Optimization, Theory and Application*, Vol.130, No.2, Vol.130, No.2, pp265-287, 2006 August.
75	I.Takewaki, Worst-case Analysis for Earthquake Energy Input Rate in SDOF and MDOF Structures, *An International Journal of Advances in Structural Engineering*, Vol.9, No.3, pp361-375, 2006.
76	A.Kishida and I.Takewaki, Exact Higher-order Sensitivity and Variation of Earthquake Energy Input in Soil-Structure Interaction System, *An International Journal of Advances in Structural Engineering*, Vol.9, No.5, pp37-53, 2006.
77	I.Takewaki, Probabilistic Critical Excitation Method for Earthquake Energy Input Rate, *Journal of Engineering Mechanics*, ASCE, Vol.132, No.9, pp990-1000, 2006.
78	Y.Kanno and I.Takewaki, Confidence Ellipsoids for Static Response of Trusses with Load and Structural Uncertainties, *Computer Methods in Applied Mechanics and Engineering*, Vol.196, issues 1-3, pp393-403, 2006.

79	Y.Kanno and I.Takewaki, Worst-case plastic limit analysis of trusses under uncertain loads via mixed 0-1 programming, *Journal of Mechanics of Materials and Structures* (Electronic Journal), Vol.2, No.2, pp247-273, 2007.
80	I.Takewaki, Closed-form Sensitivity of Earthquake Input Energy to Soil-structure Interaction System, *Journal of Engineering Mechanics*, ASCE, Vol.133, No.4, 389-399, 2007.
81	I.Takewaki, Earthquake Input Energy to Two Buildings Connected by Viscous Dampers, *Journal of Structural Engineering*, ASCE, Vol.133, No.5, 620-628, 2007.
82	A.Kishida and I.Takewaki, Analysis of Earthquake Energy Input in Soil-pile-structure System with Uncertain Soil Parameter, *An International Journal of Advances in Structural Engineering*, Vol.10, No.3, pp229-244, 2007.
83	K.Fujita, S.Yoshitomi, M.Tsuji and I.Takewaki, Critical cross-correlation function of horizontal and vertical ground motions for uplift of rigid block, *Engineering Structures*, Vol.30, No.5, pp 1199-1213, 2008.
84	I.Takewaki, Robustness of base-isolated high-rise buildings under code-specified ground motions, accepted for publication in *The Structural Design of Tall and Special Buildings*, Vol.17, No.2, 257-271, 2008.
85	Y.Kanno and I.Takewaki, Ellipsoidal Bounds for Static Response of Framed Structures against Interactive Uncertainties, *Interaction and Multiscale Mechanics* (An international journal), Vol.1, No.1, pp103-121, 2008.
86	S.Yoshitomi and I.Takewaki, Noise-effect Compensation Method for Physical- parameter System Identification under Stationary Random Input, *Structural Control and Health Monitoring*, 16(3), 350-373, 2009.
87	Y.Kanno and I.Takewaki, Semidefinite Programming for Uncertain Linear Equations in Static Analysis of Structures, *Computer Methods in Applied Mechanics and Engineering (special Issue)* 198(1), pp102-115, 2008.
88	T. Tani, S. Yoshitomi, M. Tsuji, I. Takewaki, High-performance control of wind-induced vibration of high-rise building via innovative high-hardness rubber damper, *Journal of The Structural Design of Tall and Special Buildings*, Vol.18, No.7, pp705-728, 2009.
89	J. Hino, S. Yoshitomi, M. Tsuji, I. Takewaki, Bound of aspect ratio of base-isolated buildings considering nonlinear tensile behavior of rubber bearing, *Struct Eng & Mech.*, Vol.30, No.3, 351-368, 2008.
90	I.Takewaki, K.Fujita, Earthquake Input Energy to Tall and Base-isolated Buildings in Time and Frequency Dual Domains', *J. of The Structural Design of Tall and Special Buildings*, Vol.18, No.6, pp589– 606, 2009. **(2008 Paper of the Year)**
91	S. Yoshitomi and I. Takewaki, Noise-bias compensation in physical-parameter system identification under microtremor input, *Engineering Structures*, 31(2,) 580-590, 2009.
92	Abbas Moustafa and I.Takewaki, The use of probabilistic and deterministic measures to identify unfavorable earthquake records, *Journal of Zhejiang University-SCIENCE A*, 10(5), pp619-634, 2009.
93	A.Kishida and I.Takewaki, Response Spectrum Method For Kinematic Soil-Pile Interaction Analysis, *An International Journal of Advances in Structural Engineering*, vol.13, no.1, pp181-197, 2010.
94	Y.Kanno and I.Takewaki, Semidefinite Programming for Dynamic Steady-State Analysis of Structures under Uncertain Harmonic Loads, *Computer Methods in Applied Mechanics and Engineering* Vol.198, Nos.41-44, pp3239-3261, 2009.
95	K.Fujita and I.Takewaki, Property of critical excitation for moment-resisting frames subjected to horizontal and vertical simultaneous ground motions, *Journal of Zhejiang University-SCIENCE A*, Vol.10, No.11, pp1561-1572, 2009.
96	K.Yamamoto, K.Fujita and I.Takewaki, Instantaneous earthquake input energy and sensitivity in

	base-isolated building, *J of Structural Design of Tall and Special Buildings*, Vol.20, No.6, pp631-648, 2011.
97	K.Fujita and I.Takewaki, Critical correlation of bi-directional horizontal ground motions, *Engineering Structures*, Vol.32, pp261-272, 2010.
98	I.Takewaki and M.Nakamura, Temporal variation of modal properties of a base-isolated building during an earthquake, *Journal of Zhejiang University-SCIENCE A*, Vol.11, No.1, pp1-8, 2010.
99	Abbas Moustafa and I.Takewaki, Deterministic and probabilistic representation of near-field pulse-like ground motion, *Soil Dynamics and Earthquake Engineering*, Vol.30, No.5, pp412-422, 2010.
100	A.Moustafa and I.Takewaki, Characterization and modeling of near-fault pulse-like strong ground motion via damage-based critical excitation method, *Struct Eng & Mech.*, Vol.34, No.6, pp755-778, 2010.
101	Abbas Moustafa and I.Takewaki, Modeling critical ground-motion sequences for inelastic structures, *Advances in Structural Engineering*, Vol.13, No.4, pp665-679, 2010.
102	K.Fujita, A.Moustafa and I.Takewaki, Optimal placement of viscoelastic dampers and supporting members under variable critical excitations, *Earthquakes and Structures*, Vol.1, No.1, pp43-67, 2010.
103	Abbas Moustafa, Kohei Ueno and I.Takewaki, Critical earthquake loads for SDOF inelastic structures considering evolution of seismic waves, *Earthquakes and Structures* Vol.1, No.2, pp147-162, 2010.
104	I.Takewaki, K.Fujita, K.Yamamoto and H.Takabatake, Smart Passive Damper Control for Greater Building Earthquake Resilience in Sustainable Cities, *Sustainable Cities and Society*, Vol.1, No.1, pp 3-15, 2011.
105	K.Fujita, K.Yamamoto and I.Takewaki, An Evolutionary Algorithm for Optimal Damper Placement to Minimize Interstorey-Drift Transfer Function in Shear Building, *Earthquakes and Structures*, Vol.1, No.3, pp289-306, 2010.
106	I.Takewaki and H.Tsujimoto, Scaling of design earthquake ground motions for tall buildings based on drift and input energy demands, *Earthquakes and Structures*, Vol.2, No.2, pp171-187, 2011.
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74	前田達彦，曽根孝行，魚住奈緒美，佐分利和宏，柳澤信行，平川恭章，竹脇 出，分割された心柱の変位差・速度差を利用してダンパー効率を高めた超高層建物用制振システム，構造工学論文集，Vol. 66B，pp. 375-385，2020.
75	前田達彦，黒川雄太，鈴木 悠，曽根孝行，魚住奈緒美，佐分利和宏，柳澤信行，山本雅史，竹脇 出，分割された心柱の変位差・速度差を利用した建築骨組用制振システムの振動台実験，構造工学論文集，Vol. 66B，pp. 387-395，2020.
76	明橋弘樹，竹脇　出，系統別復旧シナリオに基づくレジリエンス性能評価モデルと粘性ダンパーによるレジリエンス性能の改善，日本建築学会構造系論文集，2021 年 4 月，第 86 巻，第 782 号，pp. 577-588.
77	村瀬　充，竹脇　出，慣性質量ダンパーを用いた連結制振構造の最適慣性質量ダンパー量，日本建築学会構造系論文集，2021 年 6 月，第 86 巻，第 784 号，pp. 912-923.

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2	Preliminary Reconnaissance Report of the 1995 Hyogoken-Nanbu Earthquake, Architectural Institute of Japan, March 1995 (partial contribution).
3	Design Mechanics and Control Dynamics of Building Structures, Chapter 3 Design Mechanics for Elastically Supported Building Structures, Architectural Institute of Japan, 1994. (in Japanese)
4	I.Takewaki, **Dynamic Structural Design: Inverse Problem Approach**, WIT Press (UK), 268pages, 2000. [https://www.witpress.com/books/978-1-85312-745-8]
5	New Directions of Creative Mathematical Methods for Building Structural Design, Chapter 3 Reduced model-frame inverse transformation (K.Uetani and I.Takewaki), Architectural Institute of Japan, 2002. (in Japanese)
6	Visual Introduction to Architecture 9 <Architecture and Engineering>: Chapter 10. Structural Mechanics, 84-91, 2003, Shoukokusha Publisher. (in Japanese)
7	I.Takewaki, **Critical Excitation Methods in Earthquake Engineering**, Elsevier, 2006.12. [https://www.elsevier.com/books/critical-excitation-methods-in-earthquake-

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8	I.Takewaki and A.Kishida, Efficient Analysis of Buildings with Grouped Piles for Seismic Stiffness and Strength Design, in John Bull (ed.) *'Linear and Nonlinear Numerical Analysis of Foundations'*, Taylor & Frances 2008.
9	Y.Kanno and I.Takewaki, *Maximum Robustness Design of Trusses via Semidefinite Programming*, Chapter 1 in "Structural Design Optimization Considering Uncertainties" (eds.) YIANNIS TSOMPANAKIS, NIKOS D. LAGAROS & MANOLIS PAPADRAKAKIS, Taylor & Francis, Chapter 17, pp471-498, 2008.
10	I.Takewaki and Y.Ben-Haim, *Info-gap Robust Design of Passively Controlled Structures with Load and Model Uncertainties*, Chapter 7 in "Structural Design Optimization Considering Uncertainties" (eds.) YIANNIS TSOMPANAKIS, NIKOS D. LAGAROS & MANOLIS PAPADRAKAKIS, Taylor & Francis, Chapter 19, pp531-548, 2008.
11	I.Takewaki, **Building Control with Passive Dampers -Optimal Performance-based Design for Earthquakes-**, John Wiley & Sons Ltd. (Asia), 2009. [http://as.wiley.com/WileyCDA/WileyTitle/productCd-0470824913.html]
12	I.Takewaki, M.Nakamura and S.Yoshitomi**, System Identification for Structural Health Monitoring, WIT Press (UK), 2011.**
13	I.Takewaki, A.Moustafa and K.Fujita, **Improving the Earthquake Resilience of Buildings: The worst case approach, Springer (London), 2012. The Prize of Architectural Institute of Japan for Book in 2014.** [http://www.springer.com/gp/book/9781447141433]
14	I.Takewaki and K. Fujita, 'Evolutionary Path-dependent Damper Optimization for Variable Building Stiffness Distributions', in "Metaheuristic Applications in Structures and Infrastructures" (Xin-She Yang, Amir Hossein Gandomi, Siamak Talatahari, Amir Hossein Alavi (eds.)), Elsevier, 2013.
15	I.Takewaki, **Critical Excitation Methods in Earthquake Engineering**, 2nd edition, Elsevier, 2013. [http://www.sciencedirect.com/science/book/9780080994369]
16	I.Takewaki, Fundamental Properties on Earthquake Input Energy to Single and Connected Building Structures, Chapter in *DEVELOPING TRENDS IN SEISMIC DESIGN OF STRUCTURES edited by* Nikos D. Lagaros, Yiannis Tsompanakis & Manolis Papadrakakis, Saxe-Coburg Publisher, pp1-28, 2015.
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18	Yu Murakami, Katsuya Noshi, Kohei Fujita, Masaaki Tsuji and Izuru Takewaki, Optimal placement of hysteretic dampers via adaptive sensitivity-smoothing algorithm, *Engineering and Applied Sciences Optimization - Dedicated to the memory of Professor M.G. Karlaftis*, pp233-247, 2015.
19	H.Takabatake, Y.Kitada and I.Takewaki, Simple dynamic structural design method of super high-rise buildings, Kajima Publisher, 2016.3, in Japanese.
20	I.Takewaki, Critical earthquake response of elastic-plastic structures under near-fault or long-duration ground motions: Closed-form approach via impulse input, eBook from Frontiers, 2015. (**ISBN:** 978-2-88919-742-2) (http://www.frontiersin.org/books/Critical_Earthquake_Response_of_Elastic-Plastic_Structures_Under_Near-Fault_or_Long-Duration_Ground/751)
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22	I.Takewaki and K.Kojima, Double, triple and multiple impulses for critical elastic-plastic earthquake

	response analysis to near-fault and long-duration ground motions, Int. Workshop on Seismic performance of soil-foundation-structure systems, 21-22 November 2016, The University of Auckland, New Zealand. (CRC Press/ Taylor & Francis Group, Chouw, Orense and Larkin (eds), Seismic performance of soil-foundation- structure systems, pp123-135, 2017)
23	I.Takewaki, R.Taniguchi and K.Kojima, Critical response of elastic-plastic structures to near-fault ground motions and its application to base-isolated building structures, Chapter 6, "International Symposium in Earthquake Engineering and Structural Dynamics" in memory of late Professor Ragnar Sigbjörnsson, Conference in Reykjavik - June 2017, (Earthquake Engineering and Structural Dynamics in Memory of Ragnar Sigbjörnsson, pp.123-141).
24	I.Takewaki, Evaluation of building resilience under earthquake input using single, double and multiple impulses, eBook from Frontiers SA, 2017. (http://www.frontiersin.org/books/Evaluation_of_Building_Resilience_under_Earthquake_Input_Using_Single_Double_and_Multiple_Impulses/1313) (**ISBN**: 978-2-88945-270-5)
25	I.Takewaki, Performance of innovative controlled buildings under resonant and critical earthquake ground motions, eBook from Frontiers SA, 2018. (http://www.frontiersin.org/books/Performance_of_Innovative_Controlled_Buildings_Under_Resonant_and_Critical_Earthquake_Ground_Motion/1746) (ISBN 978-2-88945-636-9)
26	Kotaro Kojima, Kohei Fujita and Izuru Takewaki, Double and triple impulses for capturing critical elastic-plastic response properties and robustness of building structures under near-fault ground motions, in 'Resilient Structures and Infrastructures', Noroozinejad Farsangi, E., Takewaki, I., Yang, T.Y., Astaneh-Asl, A., Gardoni, P. (eds.), Springer (ISBN 978-981-13-7445-6), pp.225-242, 2019.
27	H.Takabatake, Y.Kitada, I.Takewaki and A.Kishida, Simplified Dynamic Analysis of High-rise Buildings - Applications to simplified seismic diagnosis and retrofit using rod theory, Springer Nature, 2019 (ISBN 978-981-13-7184-4).
28	Izuru Takewaki, Masayuki Kohiyama, Tomaso Trombetti, Solomon Tesfamariam, and Xinzheng Lu, Innovative Methodologies for Resilient Buildings and Cities, eBook from Frontiers SA, 2019, ISBN 978-2-88963-072-1, DOI 10.3389/978-2-88963-072-1. (Editorial: Vol.5: Issue 94)
29	Noël CHALLAMEL, Julius KAPLUNOV and Izuru TAKEWAKI (eds.), Modern trends in structural and solid mechanics: Stability, Dynamics and Stochasticity, Anniversary volume in honour of Prof. Elishakoff (Volume 1: Statics and Stability, Volume 2: Vibrations, Volume 3: Non-deterministic Mechanics), Hermes Science Publishing, ISTE-Wiley, Tuition House, 27-37 St George's Road, SW19 4EU London, UK, 2021.
30	Izuru Takewaki, Kotaro Kojima and Sae Homma, Collapse Limit of Structures under Impulsive Loading via Double Impulse Input Transformation, Chapter 7 (pp.167-184, Volume 2: Vibrations) in Noël CHALLAMEL, Julius KAPLUNOV and Izuru TAKEWAKI (eds.), Modern trends in structural and solid mechanics: Stability, Anniversary volume in honor of Prof. Elishakoff, Hermes Science Publishing, ISTE-Wiley, Tuition House, 27-37 St George's Road, SW19 4EU London, UK, 2021.
31	Dario De Domenico, Enrico Tubaldi, Izuru Takewaki, Theodore Karavasilis, Andrea Dall'Asta and Oren Lavan, Recent Advances and Applications of Seismic Isolation and Energy Dissipation Devices, Frontiers in Built Environment, eBook from Frontiers SA, Vol.6: Article 126, 2020.
32	Izuru TAKEWAKI and Kotaro KOJIMA, An Impulse and Earthquake Energy Balance Approach in Nonlinear Structural Dynamics, CRC Press, 2021.
33	Ehsan Noroozinejad Farsangi, Mohammad Noori, Paolo Gardoni, Izuru Takewaki, Humberto Varum, Aleksandra Bogdanovic (eds.), Reliability-Based Analysis and Design of Structures and

	Infrastructure, CRC Press/ Taylor and Francis, 2021.
34	Shoki Hashizume and Izuru Takewaki, Optimal design of hysteretic damper with stopper mechanism for tall buildings under earthquake ground motions of extremely large amplitude, Ehsan Noroozinejad Farsangi, Mohammad Noori, Paolo Gardoni, Izuru Takewaki, Humberto Varum, Aleksandra Bogdanovic (eds.), Reliability-Based Analysis and Design of Structures and Infrastructure, CRC Press/ Taylor and Francis, 2021.

(Invited lectures)

1	Takewaki, I, Earthquake Input Energy to Structures: *Frequency-domain Approach*, UC San Diego, Structural Engineering Seminar, September, 2005.
2	Takewaki, I. & Kanno, Y, Info-gap theory in the analysis of the robustness of civil structures against model error and load uncertainty, *Invited Lecture in Workshop on "Info-Gap Analysis of Engineering Systems"*, University of Newcastle- upon-Tyne, UK, Sept 29-30, 2005.
3	I.Takewaki, Critical excitation methods for important structures, invited as a Semi-Plenary Speaker, EURODYN 2008, July 7-9, 2008, Southampton, England.
4	Takewaki, I, Critical excitation methods for important structures, *Engineering Department Geotechnical Research Seminars*, July 11, 2008, Civil Engineering Group, Department of Engineering, Cambridge University.
5	I.Takewaki, Passive Control of Tall Buildings via Viscous and Visco-elastic Dampers, Seminar by VSL, Hong Kong, December 1, 2008.
6	I.Takewaki, Recent developments in critical excitation methods for earthquake input energy, invited as a Keynote Speaker, COMPDYN 2009, June 22-24, 2009, Island of Rhodes, Greece. (canceled)
7	I.Takewaki, Education Improvement through Systematization of Mutual Faculty Development (FD), AHELO International Workshop, 2009.9.28.
8	I.Takewaki, Building Control with Passive Dampers, Semi-plenary speaker at AIMM'10, 30 May - 4 June 2010 in Jeju, Korea.
9	I.Takewaki, "The 2011 off the Pacific Coast of Tohoku Earthquake and Its Impact on Building Structural Design", Keynote paper (Plenary speaker) at The ASEM11+ Congress, September 18-23, 2011 in Seoul, Korea.
10	I.Takewaki, "The 2011 off the Pacific Coast of Tohoku Earthquake and Its Impact on Building Structural Design", A seminar at Dept of Civil Eng, Tsinghua University, Beijing, China, August 22, 2012.
11	I.Takewaki, "System Identification and Damage Detection of Super High-rise Building using Shear-bending model and ARX model", A seminar at Dept of Automatic Control and Systems Engineering, University of Sheffield, UK, September 18, 2012.
12	I.Takewaki, "Critical earthquake loads for passively controlled inelastic building structures considering evolution of seismic waves", A seminar at Dept of Mechanical Engineering, University of Bristol, UK, September 20, 2012.
13	I.Takewaki (2013). Smart system identification of super high-rise buildings using limited vibration data during the 2011 Tohoku earthquake, Keynote lecture at ICEAS13 in ASEM13, September 8-12, Jeju, Korea.
14	Panel Discussion, Building a Sustainable Future session, Frontiers Field Chief Editor Summit, Champery, Switzerland, 2016.6.18 16:15-17:15.
15	I.Takewaki," Critical response of elastic-plastic structures under impulsive or long-duration excitations (Closed-form approach via impulse input)", The University of Manchester, June 21, 2016.
16	I.Takewaki," Critical response of elastic-plastic structures under impulsive or long-duration excitations (Closed-form approach via impulse input)", The University of Sheffield, June 22, 2016.

17	I.Takewaki," Critical response of elastic-plastic structures under impulsive or long-duration excitations (Closed-form approach via impulse input)", University of California, Berkeley, September 11, 2017.
18	Izuru Takewaki, 'A new energy approach to critical response of elastic-plastic structures under impulsive or long-duration excitations', Online Keynote presentation for the International Symposium on the 100th Anniversary of the Haiyuan Earthquake, Lanzhou University of Technology, Oct 18, 2020.

(Int. activities)

1	Conference editorial board of the 4th International Conference on Computational Structures Technology (Editor: B.H.V. Topping, Edinburgh, UK, 1998)
2	Conference editorial board of the 5th International Conference on Computational Structures Technology (Editor: B.H.V. Topping, Leuven, Belgium, 2000)
3	Associate Editor (Advances in Earthquake Engineering Series, WIT Press) 1999-. [http://www.witpress.com/acatalog/subject_earthquake_engineering___soil_dynamics.html]
4	Conference editorial board of the 3rd International Conference on Earthquake Resistant Engineering Structures (ERES 2001) (Editor: C.A.Brebbia and A.Corz, Malaga, Spain, 2001)
5	Conference editorial board of the 6th International Conference on Computational Structures Technology (Editor: B.H.V. Topping, Prague, Czech Republic, 2002) [http://www.civil-comp.com/]
6	International Editorial Board (*Structural Engineering and Mechanics: An international Journal*, Techno Press, Editors-in-Chief/ Prof. Chang-Koon Choi & Prof. W.C.Schnobrich) 2002-. [http://technop.kaist.ac.kr/]
7	Conference editorial board of the 4th International Conference on Earthquake Resistant Engineering Structures (ERES 2003) (Editor: C.A.Brebbia, Italy, 2003) [http://www.wessex.ac.uk/conferences/2003/index.html]
8	International Editorial Board (*Advances in Structural Engineering: An international Journal*, Multi-Science Publishing Co. Ltd., Editor-in-Chief/ Prof. J.G. Teng) 2002-. [http://www.cse.polyu.edu.hk/jase/jase.htm]
9	Conference editorial board of the 7th International Conference on Computational Structures Technology (Lisbon, Portugal, 2004)
10	Int. Advisory Committee Member of the Third International Conference on Advances in Structural Engineering and Mechanics (ASEM'04), 2-4 September 2004 in Seoul , Korea
11	International Editorial Board (*Interaction and Multiscale Mechanics: An international Journal*, Techno Press, Editors-in-Chief/ Prof. J.S. Chen and Prof. Yeong-Bin Yang, Asso. Editor/ Prof. Chuin-Shan Chen) [http://technop.kaist.ac.kr/] 2008-2014)
12	Conference editorial board of the 8th International Conference on Computational Structures Technology (Las Palmas de Gran Canaria, 2006)
13	Izuru Takewaki and Yoshihiro Kanno, Info-gap theory in the analysis of the robustness of civil structures against model error and load uncertainty, A workshop on INFO-GAP ANALYSIS OF ENGINEERING SYSTEMS: ROBUST DECISIONS UNDER SEVERE UNCERTAINTY, 29-30th September 2005, University of Newcastle-upon-Tyne (Invited lecture from UK Government Grant).
14	Member of WSEAS (World Scientific and Engineering Academy and Society) Working Group on Computer Science www.wseas.org 2006.
15	Editorial Board of WIT Transactions on The Built Environment, 2006.
16	Editorial Board of *Engineering Structures*, Elsevier, Editors Prof.P.Gould, Prof.E.Mang and Prof.S.Kitipornchai [http://www.elsevier.com/wps/find/journaldescription.cws_home/30415/description#description] (2007-2012)
17	Editorial Board of *Open Civil Engineering Journal*, Bentham Publishers, 2007.

18	Guest Editor of *Interaction and Multiscale Mechanics: An International Journal*, Techno Press, Vol.1, Issue 4, 2008.
19	I.Takewaki, Critical excitation methods for important structures, invited as a Semi-Plenary Speaker, EURODYN 2008, July 7-9, 2008, Southampton, England.
20	I.Takewaki, Earthquake Input Energy to Structures: *Frequency-domain Approach*, 2005 年 9 月, カリフォルニア大学サンディエゴ校構造工学学科講義 SE290.
21	Conference editorial board of the 9th International Conference on Computational Structures Technology (Athens, Greece, 2008)
22	Editorial Board of *Open Civil Engineering Letters*, Bentham Publishers, 2007.
23	Editorial Board of *The Open Construction and Building Technology Journal*, Bentham Publishers, 2007.
24	International Workshop on Earthquake Hazards and Mitigations (EHAM-2007), international advisory committee member, Dec 7-8, 2007, Guwahati, India.
25	Scientific Committee Member of the ECCOMAS Thematic Conference on "Computational Methods in Structural Dynamics and Earthquake Engineering" (COMPDYN 2009)
26	Steering Committee Member of International Symposium on Structures under Earthquake, Impact, and Blast Loading, Osaka, 2008.
27	Editorial Board of The First International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2009), Funchal, Madeira Island, from 1-4 September 2009
28	Member of the ASCE EMI Dynamics Committee (2008-)
29	Editorial Board of *Structural Control and Health Monitoring*, John Wiley (2008-2018).
30	Editorial Board of The Open Statistics & Probability Journal, Bentham Publishers, 2009-.
31	Editorial Board of Journal of Zhejiang University-SCIENCE A, 2009-
32	Editor-in-Chief of **Earthquakes and Structures (EAS)**: ***An International Journal*** of Earthquake and its Effects on Structures (Techno-Press in Korea) (2009-2014)
33	Editorial Board of *Soil Dynamics and Earthquake Engineering*, Elsevier, Editors Prof.D.E.Beskos, A Elgamal and Prof.M.Erdik (2009-).
34	Editorial Board of ***Sustainable Cities and Society***, Elsevier, Editor Prof. Saffa Riffat (2010-)
35	Scientific Committee Member of the ECCOMAS Thematic Conference on "Computational Methods in Structural Dynamics and Earthquake Engineering" (COMPDYN 2011)
36	International Advisory Committee Member of The Twelfth East Asia-Pacific Conference on Structural Engineering & Construction (EASEC-12), Jan 26-28, 2011, Hong Kong.
37	Co-chairman of 2011 International Conference on Earthquakes and Structures (ICEAS11), Seoul, Korea, Sept 18-23, 2011.
38	Int. Advisory Committee Member of The 2011 World Congress on Advances in Structural Engineering and Mechanics (ASEM 11+), Seoul, Korea, Sept 18-23, 2011.
39	Editorial Board of International Journal of Turbines Engineering (IJTE) (2010-)
40	Editorial Board of ISRN Civil Engineering (Hindawi Publishing Corporation, 2010-)
41	Member of the International Technical & Advisory Committee in an International Conference on ""Earthquake Analysis and Design" (EQADS-2011) during December 1-3, 2011 (PSG College of Technology, Coimbatore, India).
42	Scientific and Steering Committee Member of *International Symposium on* Disaster Simulation & Structural Safety *in the Next Generation September 17-18 , 2011* at Hyogo Univ, Kobe, JAPAN.
43	Conference editorial board of the Eleventh International Conference on Computational Structures Technology (Dubrovnik, Croatia from 4-7 September 2012)

44	Member of the Scientific Committee of COMPDYN 2013 (Computational Methods in Structural Dynamics and Earthquake Engineering) 2013.June.12-14.
45	A member of the International Advisory Committee for The 2013 World Congress on Advances in Structural Engineering and Mechanics (ASEM13), , 25-29, August, 2013, Jeju, Korea.
46	Editorial Board of *Earthquake Engineering and Hazard Mitigation* (2013-)
47	International Scientific Committee (ISC) Member of the 6th World Conference on Structural Control and Monitoring, Barcelona in 15-17 July, 2014.
48	Scientific Committee Member for International Conference on ***Engineering and Applied Sciences Optimization (OPTI 2014)*** to be held in Kos Island, Greece on 4-6 June 2014.
49	Member of the International Scientific Advisory Committee of HPSM 2014, to be held in Ostend, Belgium, from 9 - 11 June 2014 (7th International Conference on High Performance and Optimum Design of Structures and Materials) WIT
50	Editorial Board of the Twelfth International Conference on Computational Structures Technology (CST2014), Naples, Italy, 2-5 September, 2014
51	Scientific Committee Member for "15th EU/ME Workshop: Metaheuristic and Engineering" to be held in Istanbul, Turkey in 24 – 25 March 2014
52	Member of "International Scientific Committee" of EMI(ASCE) 2015 HK (Jan 7-9, 2015), KT Chau
53	Member of the Scientific Committee of **COMPDYN 2015, Island of Crete, Greece on 23-25 May 2015**
54	A member of the International Advisory Committee for The 2015 World Congress on Advances in Structural Engineering and Mechanics (ASEM15), 16-20, August, 2015, Taejeon, Korea. Also co-chairman of 2015 International Conference on Earthquakes and Structures (ICEAS15)
55	**Chief Editor of Specialty Section 'Earthquake Engineering' in 'Frontiers in Built Environment' (2014-) (Published by Frontiers (Nature Publishing Group))**
56	Editorial Board of *International Journal of Future Cities and Environment* (IJFCE) (2015-) Springer International Publishing AG
57	A member of the International Scientific Committee of **14th International Conference on Sustainable Energy Technologies (SET 2015) in Nottingham on the 25-27 August 2015**.
58	A member of the Editorial Board of The Fifteenth International Conference on Civil, Structural and Environmental Engineering Computing: Civil-Comp 2015 (CC2015) is to be held in Prague, Czech Republic from 1-4 September 2015.
59	Editorial Board of **Earthquakes and Structures (EAS)**: ***An International Journal*** of Earthquake and its Effects on Structures (Techno-Press in Korea) (2014-)
60	Editorial Board Member of ***The Structural Design of Tall and Special Buildings*** (Editor: Xilin Lu), John Wiley (2015-)
61	Editorial Board of ***Journal of Smart Cities*** (Editor-in-Chief **Andreas Kappos, City University of London,** Whioce publishing Pte Ltd: Singapore) (2015-).
62	Editorial Board of *Heliyon*, Elsevier's open access journal (2015-).
63	Editorial Board Member of *Earthquake Engineering and Engineering Vibration* (EEEV: Springer) (Editors-in-Chief: George Lee, Qi Xiaozhai) (2015-)
64	Editorial Board of Scientific Reports (Macmilan: Nature Publishing Group) (2015-)
65	Organizing Committee Member for the 5th International Conference on Earth Science & Climate Change (Earth Science-2016) during July 25-27, 2016 Bangkok, Thailand
66	Field Chief Editor of **'Frontiers in Built Environment'** (2015-) (Published by Frontiers in Switzerland)
67	Member of the Scientific Committee of the Conference on *Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2017)* will be held on the Island of Rhodes,

	Greece on 15-17 June 2017.
68	An International Advisory Board Member of **15th International Conference on Sustainable Energy Technologies (SET 2016) in Singapore on the 19-22 July 2016**.
69	Associate Editor of Int. Journal of Earthquake and Impact Engineering (Chief Editor: Ehsan Noroozi), 2016-.
70	A member of **the jury for the First Spotlight Conference Award of Frontiers SA,** 2017.1〜2017.5
71	Associate Editor of Japan Architectural Review (International Journal of Japan Architectural Review for Engineering and Design) from Wiley, (2017.4-)
72	Group member of 'TG7.6 - Resilient structures' in fib (International Federation for Structural Concrete) (2017.5〜, Switzerland)
73	Member of the Editorial Board of The Thirteenth International Conference on Computational Structures Technology (CST2018) will take place in Sitges, Barcelona, Spain, from 4 to 6 September 2018
74	Member of evaluation board for ranking the candidate papers for The 2016 JSDEE Ahmed Çakmak Best Paper Award for journal Soil Dynamics and Earthquake Engineering.
75	Member of the World Economic Forum Expert Network (2018.3.13〜)
76	Member of the Scientific Committee of the Conference on *Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2019)* will be held on Crete, Greece on 22-24 June 2019.
77	Member of the Scientific Committee of the International Conference on Vibration Problems (*ICOVP 2019*) in Crete**,** Greece on 1-4 September 2019
78	2nd Spotlight Award Jury member, Frontiers SA (2018.6〜)
79	A member of the Scientific Committee of XI International Conference on Structural Dynamics **(***EURODYN 2020***)**, 22-24 June 2020 in Athens**,** Greece
80	**Associate Editor of Soil Dynamics and Earthquake Engineering**, Elsevier (2018.12〜)
81	Editorial board of Architecture, Structures & Construction (Springer Nature, 2021〜)

Citation Index (References in which author's works are quoted)

author's work		I.Takewaki, Efficient Optimal Frequency Design of Elastically-Supported Distributed-Parameter Cantilevers, *Int. J. of Computers & Structures*, Vol.62, No.1, pp107-117, 1996.
	references	H.M.Negm, K.Y.Maalawi, Structural design optimization of wind turbine towers, *Int. J. of Computers & Structures*, Vol.74, No.6, pp649-666, 2000.
	2	Scott A.Burns (ed.), Recent Advances in Optimal Structural Design By Structural Engineering Institute Technical Committee on Optimal Structural Design, By Structural Engineering Institute Technical Committee on Optimal Structural Design, 2002.
	3	Seyed Omid Sajedi, Seyed Rasoul Mirghaderi, Farhad Keshavarzi, Frame-type load bearing system for long-span cantilevers, February 2018, The Structural Design of Tall and Special Buildings.
	4	Konstantin G. Koulatsou, George Kazakis, Charis J. Gantes, Nikos D. Lagaros, Resonance Investigation and its Effects on Weight Optimization of Tubular Steel Wind Turbine Towers, Procedia Manufacturing 44 (2020) 4–11.
author's work		I.Takewaki, Optimal Frequency Design of Tower Structures via an Approximation Concept, *Int. J. of Computers & Structures*, Vol.58, No.3, pp445-452, 1996.

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	2	Xia, L.-J., Yu, Y., Jin, X.-D., Experimental research and optimal design for mode characteristic of the frame structure on satellite, *Shanghai Jiaotong Daxue Xuebao/Journal of Shanghai Jiaotong University* 38 (11) , 1889-1891, 2004.
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