List of Research Activities

Infrastructure Field

[Papers]

(1) Civil Engineering Works - Bridges
Ken-ichi Maeda

(2) CFRP Repair of Fatigue Cracks and Bonding Behavior Subjected to Cyclic Load during Curing
Fan Lin (Doctoral Student), Hitoshi Nakamura, Ken-ichi Maeda, Hiroyuki Suzuki (Meisei Univ.), Takao Irube (TTK Corp.)

(3) Report of the Subcommittee for Repair and Strengthening of Steel and Composite Structures
Hiroyuki Suzuki (Meisei Univ.), Minoru Yamada (Taira Engineering), Ken-ichi Maeda, Hitoshi Nakamura, et al.
Committee on Hybrid Structures, JSCE, pp.17-32, pp.49-59 (August 2010) [in Japanese]

(4) Trial Design of Cable-Stayed Bridges Using Hybrid Composite Girders and Applicability to Free Passage over Railway
Hitoshi Nakamura, Ken-ichi Maeda, Hiroshi Mutsuyoshi (Saitama Univ.), Ken-ichi Yaginuma (East Japan Railway Company), Takahiro Matsui (Toray Industries)
The 5th International Conference on FRP Composites in Civil Engineering, CICE 2010, pp.148-151 (Sep. 2010)
(5) Development and Experimental Verification of a Pedestrian Slab Bridge Using GFRP Pultrusion Profiles
Seigo Fujita (Master's Course Student), Ken-ichi Maeda, Hitoshi Nakamura, Nobuhiko Kitayama (IHI Infrastructure Systems), Tetsuya Watanabe (AGC Matex)
The 5th International Conference on FRP Composites in Civil Engineering, CICE 2010, pp.168-172 (Sep. 2010)

(6) Experimental Study on Adhesion Characteristics of Steel Plates and CFRP Strips under Cyclic Load
Fan Lin (Doctoral Student), Shotaro Kita (West Japan Railway Company), Hitoshi Nakamura, Ken-ichi Maeda, Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)

(7) Adhesion Characteristics of Steel Plates and CFRP Strips under Curing and Surface Condition
Ji Guang SUN (Master’s Course Student), Shotaro Kita (West Japan Railway Company), Hitoshi Nakamura, Ken-ichi Maeda, Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)

(8) Guidelines for the Design of Footbridges
Ken-ichi Maeda, Kyo Takenouchi (Urban Environmental Designer), Hitoshi Nakamura, et al.

(9) Guidelines for Design and Construction of FRP footbridges
Syun-ichi Nakamura (Tokai Univ.), Seishi Yamada (Toyohashi Univ. of Technology), Kunitomo Sugiura (Kyoto Univ.), Itaru Nishizaki (PWRI), Ken-ichi Maeda, Hitoshi Nakamura, et al.
Hybrid Structures Series 04, Sub-committee / Task force for Guidelines for Design of FRP footbridges, Committee on Hybrid Structures, JSCE, pp.8-26, pp.95-106, pp.177-192 (Jan. 2011) [in Japanese]

(10) Development of New Type GFRP Pedestrian Bridge for Drastic Cost Reduction
Ken-ichi Maeda, Hitoshi Nakamura, Nobuhiko Kitayama (IHI Infrastructure Systems), Koshiro Hayashi (AGC Matex)

Masaaki Tatsumi (Oriental Consultants), Hiroshi Katsuchi (Yokohama National Univ.), Hitoshi Nakamura, et al.
Steel Structures Series 20, Subcommittee for Surveying Technologies and Its Progress of Steel Cable-Stayed Bridges, Committee on Steel Structures, JSCE, pp.8-12, pp.13-21 (Feb. 2011) [in Japanese]

(12) Fatigue Life Prediction for Fatigue Crack at Out-of-Plane Welded Gusset Joint Repaired with CFRP Strips
Hitoshi Nakamura, Wei Jiang (Obayashi Corp.), Ken-ichi Maeda, Hiroyuki Suzuki (Meisei Univ.), Takao Irube (TTK Corp.), Yoshihiro Fukuda (JX Nippon Oil & Energy Corp.)

(13) Design codes for steel and composite structures in Japan
M.Nagai (Nagaoka Univ. of Tech.), E.Yamaguchi(Kyushu Inst. of tech.), K.Nogami, T.Yoda(Waseda Univ.)
Proceeding of IABSE-fib Conference on Codes in Structural Engineering,
CD-ROM, Croatia (2010)

(14) Elasto-plastic behaviors and ultimate strength of continuous super long-span suspension bridge
K.Nogami, A.Okubo (Kanagawa pref.), Y.Morizono (Chodai Corp.), M.Nagai (Nagaoka Univ. of Tech.)
The 5th international conference on bridge maintenance, safety and management, IABMAS2010, USA (Jul. 2010)

(15) Elasto-plastic behavior and ultimate strength of steel and composite cable-stayed bridges with tower height of 1/10 of the center span length
K. Nogami, S. Io, N. Yoshida (Shimizu Const.)
Proceeding of the IABSE-JSCE conference on advances in bridge engineering-II, Bangladesh, pp.93-100 (Aug. 2010)

(16) Introduction of recent development of steel and composite bridges in Japan
M. Nagai (Nagaoka Univ. of Tech.), E. Yamaguchi (Kyushu Inst. of Tech.), Kuniei Nogami, T. Yoda(Waseda Univ.)

(17) Large-scale strait crossing project in Japan and two related topics
N.Yoshida, K.Nogami, M.Nagai (Nagaoka Univ. of Tech.)
Proc. of the sixth Pacific Structural Steel Conference, China, I, pp.100-105 (Oct. 2010)

(18) Ultimate strength of 4 super long-span suspension bridge
T.Ban, K.Nogami, S.Io, K.Ikeda (Chodai Corp.), M.Nagai (Nagaoka Univ. of Tech.)
(19) Applicability of the strength equation for tension and shear block failure of gusset plates in steel truss bridges
T.Yoda (WasedaUniv.), H.Kasano (WasedaUniv.), K.Nogami, J.Murakoshi (PWRI), T.Toyama (PWRI), K.Arimura (PWRI), M.Sawada (PWRI), R.Kaku (PWRI)

(20) Operational experiment of inside-addition outside-closure auxiliary lane at Kobotoke tunnel on Chuo Expressway.
Yoichi Moriyama (Central Nippon Expressway), Masahiko Mitsuhashi (Central Nippon Expressway), Shoichi Hirai (EHRF) and Takashi Oguchi

(21) A Study on backward propagation and fixation of the queue head after the release from incident queue.
Yoshiyasu Murashige (Nippon Expressway Research Institute), Yasuhiro Nonaka (Highway Planning) and Takashi Oguchi

(22) Model Analysis on Signal Offset and CO2 Emission at Two Intersections
Hiroyuki Oneyama

(23) A study on the effects of renewal of vehicles of tram - a case study of Tokyu Setagaya Line -.
Shunsuke Eino, Hiroyuki Oneyama, Takashi Oguchi and Shigenori Shikata
Infrastructure Planning Review (JSCE), Vol.27, No.4, pp.841-849 (Nov. 2010) [in Japanese]
(1) Fatigue Life Prediction for Fatigue Cracks at Welded Web Gusset Joints Repaired with CFRP Strips
Wei Jiang (Obayashi Corp.), Hitoshi Nakamura, Ken-ichi Maeda, Hiroyuki Suzuki (Meisei Univ.), Takao Irube (TTK Corp.), Yoshihiro Fukuda (Nippon Oil Corp.)

(2) Adhesion Characteristics of CFRP Strips under Dynamic Load and Repair Effects of Fatigue Cracks
Shotaro Kita (West Japan Railway Company), Hitoshi Nakamura, Ken-ichi Maeda, Lin Fan (Doctoral Student), Ji Guang SUN (Master’s Course Student), Hiroyuki Suzuki (Meisei Univ.), Takao Irube (TTK Corp.), Yoshihiro Fukuda (Nippon Oil Corp.)

(3) Crack Propagation Analysis for Center-Cracked Steel Plate Bonded with CFRP Strips
Lin Fan (Doctoral Student), Ji Guang SUN (Master’s Course Student), Shotaro Kita (West Japan Railway Company), Hitoshi Nakamura, Ken-ichi Maeda, Hiroyuki Suzuki (Meisei Univ.), Takao Irube (TTK Corp.), Yoshihiro Fukuda (Nippon Oil Corp.)

(4) Experimental Study on Damped Free Vibration Characteristics of High Order Modes of CFCC
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(Zhejiang Univ.), Xie Xu (Zhejiang Univ.), Tsuyoshi Enomoto (Tokyo Rope Mfg.), Ken-ichi Ushijima (Tokyo Rope Mfg.)

(5) Experimental and Analytical Study on Connections of Hybrid Composite Girders Using Rivets
Yuuki Kikuchi (Metropolitan Expressway Company), Hitoshi Nakamura, Ken-ichi Maeda, Hiroshi Mutsuyoshi (Saitama Univ.), Takahiro Matsui (Toray Industries), Kenji Suzukawa (Toray Industries)

(6) Experimental Study on Joints of Pultruded GFRP Members Using Rivets and Adhesives
Seigo Fujita (Master’s Course Student), Nobuhiko Kitayama (IHI Infrastructure Systems), Hitoshi Nakamura, Ken-ichi Maeda, Tetsuya Watanabe (AGC Matex)

(7) Bearing Strength and Galvanic Corrosion in Bolted Joints of Hybrid Composite Members
Tatsuya Iida (Master's Course Student), Ken-ichi Maeda, Hitoshi Nakamura, Hiroshi Mutsuyoshi (Saitama Univ.), Takahiro Matsui (Toray Industries), Kenji Suzukawa (Toray Industries), Hajime Yoshida (East Japan Railway Company), Ken-ichi Yaginuma (East Japan Railway Company)

(8) Experimental Study on Joints of Hybrid Composite and Steel Members Using High-Strength Bolts
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(9) Study on Structural Characteristics and Serviceability of Cable·Stayed Bridges Using Hybrid Composite Girders
Takayuki Watanabe (Taisei Corp.), Hitoshi Nakamura, Ken·ichi Maeda, Hiroshi Mutsuyoshi (Saitama Univ.), Takahiro Matsui (Toray Industries), Kenji Suzukawa (Toray Industries), Hajime Yoshida (East Japan Railway Company), Ken·ichi Yaginuma (East Japan Railway Company)

(10) Remaining ultimate strength of corroded column with T- and I-cross sections
K.Tamaoki (Hukuda Road Corp), T.Yamasawa (Kajima Const.), K.Nogami

(11) Vibration experiment and its analysis model of existing steel girder bridge with the rolled steel
N.Nakajima, K.Nogami, N.Sakurai (Nippon Steel eng.),E.Nakayama (Nippon Steel eng.)

(12) Ultimate strength and its applicability of cable·stayed bridges with center span length of 200-meter, 400-meter and 600-meter with lower tower height
N.Yoshida (Shimizu Cons.), K.Nogami, Y.Morizono (Chodai Corp.), M.Nagai (Nagaoka Univ. of Tech.)
(13) Effectiveness to the ultimate strength of super 4-long span suspension bridges using the high strength cable and grating girder
T.Ban, K.Nogami, T.Ikeda (Chodai Corp.), M.Nagai (Nagaoka Univ. of Tech.)

(14) The ultimate in-plane characteristics in the transverse directions of the steel tower of super 4-long span suspension bridges
K.Sakuma, K.Nogami, T.Ikeda (Chodai Corp.), M.Nagai (Nagaoka Univ. of Tech.)

(15) Elasto-plastic behavior and ultimate strength of 5-long span suspension bridges
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(16) The analysis of remaining ultimate strength of uniform corroded diagonal-chord of truss bridge
S.Komine, K.Nogami, T.Yamasawa(Kajima Const.), T.Yoda (Waseda Univ.), H.Kasano (Waseda Univ.), J.Murakoshi (PWRI), N.Yanatori (PWRI), K.Maeda (PWRI), M.Sawada (PWRI)

(17) The deformation measurement by live loading in the steel truss bridge which was damaged in the remarkable corrosion
K.Maeda (PWRI), J.Murakoshi (PWRI), N.Yanatori (PWRI), M.Sawada
(18) Strength reduction by reducing the thickness of gusset plates in steel truss bridges
Y.takahashi(Waseda Univ.), H.Yonezu(Waseda Univ.), H.Kasano(Waseda Univ.), T.Yoda (Waseda Univ.), K.Nogami, J.Murakoshi (PWRI), N.Yanatori (PWRI), K.Maeda (PWRI), M.Sawada (PWRI)

(19) The local loading examination of a remarkable steel truss bridge of the corrosion damage and the performance evaluation of Load carrying capacity
K.Arimura (PWRI), J.Murakoshi (PWRI), N.Toyama (PWRI), M.Sawada (PWRI), R.Kaku(PWRI), T.Yoda (Waseda Univ.), H.Kasano (Waseda Univ.), K.Nogami,

(20) Remaining ultimate strength of virtual corroded column with box-section
S.Komite, K.Nogami, T.Yamasawa(Kajima Const.), T.Yoda (Waseda Univ.), H.Kasano (Waseda Univ.), J.Murakoshi (PWRI), N.Toyama (PWRI), K.Arimura (PWRI), M.Sawada (PWRI), R.Kaku(PWRI)
Proceedings of the 38th Kanto Region Annual Conference of JSCE, I-10 (Mar. 2011) [in Japanese]

(21) Measurement of residual stress by magneto-striction method of the box-section member in existing steel bridge
G.Miyashita(Nagaoka Univ. of Tech.), Y.Nagata(Nagaoka Univ. of Tech.), K.Nogami, M.Sawada (PWRI), M.Nagai(Nagaoka Univ. of Tech.)
(22) Analytical study on ultimate limit state panel point in steel truss bridges
R.Danzai(Waseda Univ.), T.Yoda (Waseda Univ.), H.Kasano (Waseda Univ.), K.Nogami, J.Murakoshi (PWR), N.Toyama (PWR), K.Arimura (PWR), M.Sawada(PWR), R.Kaku(PWR)

(23) Measurement of the corroded shape of gusset plates in steel truss bridges
N.Yamamoto, K.Nogami, T.Yamasawa(Kajima Const.), T.Yoda (Waseda Univ.), H.Kasano (Waseda Univ.), J.Murakoshi (PWR), N.Toyama (PWR), K.Arimura (PWR), M.Sawada (PWR), R.Kaku(PWR)

(24) Empirical analytic methods for estimating the lost time at signalized intersections.
Tomoko Yamaguchi, Takashi Oguchi, Shigenori Shikata and Hiroyuki Oneyama
Proceedings of Infrastructure Planning (JSCE), No.41, CD-ROM (Jun. 2010) [in Japanese]

(25) Safety confirmatory behavior at roundabouts and conventional non-signalized intersections.
Ryo Takigawa, Takashi Oguchi, Hiroyuki Oneyama and Shigenori Shikata
Proceedings of Infrastructure Planning (JSCE), No.41, CD-ROM (Jun. 2010) [in Japanese]

Taisuke Utsumi (Chodai), Sumio Shimokawa (JICE), Hideki Nakamura (Nagoya Univ.) and Takashi Oguchi
Proceedings of Infrastructure Planning (JSCE), No.41, CD-ROM (Jun. 2010) [in Japanese]

(27) A study on a road design classification for the hierarchical road network.
Eichi Yamakawa (Yachiyo Engineering), Yoshinori Abe (Kokusai Kogyo), Hideki Nakamura (Nagoya Univ.) and Takashi Oguchi
Proceedings of Infrastructure Planning (JSCE), No.41, CD-ROM (Jun. 2010) [in Japanese]

(28) Climbing Lane Design Concept Based on Performance-Oriented Highway Planning and Design.
Sungjoon Hong (Univ. of Tokyo) and T. Oguchi
Proceedings of Infrastructure Planning (JSCE), No.41, CD-ROM (Jun. 2010) [in Japanese]

(29) The historical transition of the street network in Tokyo.
Yumi Kiuchi (Mitsubishi Estate Building Management), Takashi Oguchi and Seiji Takamatsu (Space Syntax Japan)
Proceedings of Infrastructure History (JSCE), No.30, pp.179-185 (Jun. 2010) [in Japanese]

(30) Practical analysis of lane choice bahavior on main streets.
Daisuke Yamazaki, Shigenori Shikata, Takashi Oguchi and Hiroyuki Oneyama

(31) Study on structure of residential streets and its actual use.
Yusuke Kadota, Takashi Oguchi, Seiji Takamatsu (Space Syntax Japan), Hiroyuki Oneyama and Shigenori Shikata
(32) Validation scheme for traffic simulation to estimate environmental impacts in 'Energy-ITS Project'
R. Horiguchi, H. Hanabusa, M. Kuwahara, S. Tanaka, T. Oguchi, H. Oneyama, H. Hirai and S. Hayashi
Proceedings of 17th World Congress on ITS 2010, (Oct. 2010)

(33) Effect measurement of intersection symbilization signs.
Motomune Kataoka(Kochi Univ. of Tech.), Toshio Yoshii(Kyoto Univ.), Ken Matsudaira(PIJ), Takashi Oguchi, Yasuhiko Kumagai(Kochi Univ. of Tech.), Toshihiro Nakajima(Kochi Prefecture), Toshihiro Komatsu(Kochi Prefecture) and Yuka Matsuura(Kochi Prefecture)

(34) 'Energy ITS Project' · Establishment of International Standardized Assessment Methodology of ITS ·
Masao Kuwahara(Univ. of Tokyo), Ryota Horiguchi(i-Transport Lab.), Hiroshi Hirai(JARI), Shinji Tanaka(Univ. of Tokyo), Marc Miska(Univ. of Tokyo), Mitsuo Yonezawa(JARI), Seiji Hayashi(JARI), Shuici Kanari(JARI), Hisatomo Hanabusa(i-Transport Lab.), Tadashi Komiya(i-Transport Lab.), Sunjoon Hong(Univ. of Tokyo), Takashi Oguchi and Hiroyuki Oneyama

[Others]

(1) Present of Rehabilitations of Steel Structures by Bonding FRP and Applicability to Fatigue Crack Repair
Hitoshi Nakamura

(2) Improvement of Fatigue Durability by Bonding FRP
Hitoshi Nakamura
The 228th Committee on Fatigue Strength, Report and Research Presentation, Japan Welding Society, FS-1185-11, 4 pages (ppt Files) (Jan. 2011) [in Japanese]

(3) The bridges are dangerous, the challenge to the more longer of the lifetime
K. Nogami
Text of open university of Tokyo metropolitan university (May 2010) [in Japanese]

(4) Technology development about the strategic maintenance for the extension of lifetime of the social capital stock
K. Nogami
Meeting of the suggestion of the study policy by the sponsorship of the metropolitan science cooperation mechanism of TMU (Jun. 2010) [in Japanese]

(5) A manual of the corrosion durability collation of the steel structure
K. Nogami
Seminar of the Chubu Region of JSCE (Jun. 2010) [in Japanese]

(6) A gap corrosion measurement of the gusset of the steel truss bridge where the corrosion damage is intense and the evaluation of its corrosion shape
Experiment and analysis concerning remaining ultimate strength of corroded existing steel members
K. Nogami, T. Koyama, T. Yamasawa (Kajima Const.)

(7) Ultimate strength of multi super long-span suspension bridge
K. Nogami
Super Long Span Bridge R&D Center, Korea (Oct. 2010)
(8) Coming around bridge of Sumida river —Structure and history of the bridge—
K. Nogami
Text of open university of Tokyo metropolitan university (Oct. 2010) [in Japanese]

(9) Elasto-plastic behavior and ultimate strength of cable-stayed bridges with tower height of 1/10 of span length
K. Nogami
Hanyang University, Korea (Nov. 2010)

(9) Ultimate strength of 4 and 5 super long-span suspension bridge
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Hanyang University, Korea (Nov. 2010)

(10) Structural calculation
K. Nogami
A seminar for bridge engineers in Tokyo metropolitan public corporation for toad improvement and management (Jan. 2011) [in Japanese]

(11) A reader for Transport Planning and Traffic Engineering.
Hisashi Kubota (Saitama Univ.), Takashi Oguchi and Katsumi Takahashi(IBS)
Co-authors, Rikoh Tosho, 263p. (Apr. 2010) [in Japanese]

(12) Perspective of Public Transport to Realize Sustainable Transportation
Hiroyuki Oneyama

(13) The policy of speed regulation on arterial roads.
Takashi Oguchi
Traffic speed management in futuro - the policy of speed regulations adapting to highway functions and places, workshop of traffic engineering, No.85,
pp.5·14 (Oct. 2010) [in Japanese]

(14) Traffic Safety Measures.
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(15) Traffic Noise and Measures to Control it
Hiroyuki Oneyama
Transport Policy in Perspective: 2010, Japan Research Center for Transport Policy, section 3·2, pp.72-73 (Oct. 2010) [in Japanese]

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Transport Policy in Perspective: 2010, Japan Research Center for Transport Policy, section 2·3, pp.28·29 (Jan. 2011)

(17) Traffic Noise and Measures to Control it
Hiroyuki Oneyama
Transport Policy in Perspective: 2010, Japan Research Center for Transport Policy, section 3·2, pp.42·43 (Jan. 2011)

Environmental System Field

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(1) An Experimental Study on the Hydraulic Characteristic of the Water Flow in the Ozone Contact Reactor
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Yasuo Kobayashi, Yusuke Takahashi, Toshiro Kamada, Akira Koizumi and Masahiro Fujiwara
Water Practice & Technology, 9 Pages (2010)

(4) Economic Comparison of Failure Risk Management of Pipeline Networks
Haruhiko WATANABE, Akira KOIZUM1, Atsuo NUMATA and Masayuki MORI

(5) Research on Simulation Model for Replacement of Water Pipeline
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(7) Study on the Reduction of CO2 Emission by Replacing Receiving Tank System to Directly Connected Water Supply System
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(9) A Study on the Deterioration of Concrete Wall in the Ozone Treatment Tank
Masaru OZAKI, Yukihiro HOSHINO, Yoshihisa OKADA, Hiroshi ASHIDA, Satoshi TAMURA, Atsushi MASUKO and Akira KOIZUMI
Journal of Japan Water Works Association, Vol.80, No.2, pp.3-14, (Feb. 2011)

(10) Partial standing waves due to a wave and current interaction and the amount of irregular-wave overtopping at a seawall
Motohiko Umeyama
Advances and Applications in Fluid Mechanics, PPH, 7(2), pp.139-161 (2010)

(11) Coupled PIV and PTV measurements of particle velocities and trajectories for surface waves following a steady current
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(12) Measurements of velocity and trajectory of water particle for internal waves in two density layers
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(13) Measurements of particle velocities and trajectories in a wave-current motion using PIV and PTV
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(15) Study on a waterfront urban community in lower-lying land areas
Toshio Nakajima & Motohiko Umeyama

(16) Influence of saline intrusion during the dry season in Red river and
Thai Binh river systems, Vietnam
Duc H Nguyen, Tetsuya Shintani & Motohiko Umeyama
6th International Symposium on Environmental Hydraulics, IAHR, Greece,
pp.317-323 (Jun. 2010)

(17) Annual sediment budget in the Shirakawa River estuary, Japan
K. Yokoyama, T. Suetsugi and S. Kawano,
6th International Symposium on Environmental Hydraulics, IAHR, Greece,
pp.893-898 (Jun. 2010)

(18) Control of the water current and prevention of phytoplankton growth by
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and Y. Kobayashi
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Akira KAWAMURA, Duong Du BUI, Thanh Ngoc TONG, Hideo AMAGUCHI and Naoko NAKAGAWA

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Achraf HENTATI, Akira KAWAMURA, Hideo AMAGUCHI and Naoko NAKAGAWA
Geomorphology, No.122, pp.56-64 (Jun. 2010)
(30) Urban hydrological climate change impact assessment: some Swedish experiences.
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(31) A pilot experiment of the gray water treatment system considering the characteristic of the Miyako Island.
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(33) Trend analysis of groundwater levels of confined aquifer in Hanoi, Vietnam by the Mann-Kendall test.
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(34) Pattern classification analysis of non-point source pollution using measured runoff and water quality data.
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(35) Spatio-temporal characteristics of one-minute rainfall in Tokyo.
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(37) Analysis of climate change impact on urban runoff in Arvika, Sweden by the Tokyo Storm Runoff Model.

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(40) River level estimation using artificial neural network for urban small river in tidal reach.
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Yamazaki K., Min B.D., Koizumi A., Koo J.Y.

(2) Establishment of Leakage Accident Rate Curves for Drinking Water pipe
H.Matsusita, Y.Takahashi, Y.Suzuki, H.Taniguchi and A.Koizumi
International Water Association World Water Congress & Exhibition, Montreal, 8 Pages (Sep. 2010)

(3) Development of Optimal Operation Management System for Water Supply Piping Network
Ja Yong Koo, Akira Koizumi and Taeho Choi
International Water Association World Water Congress & Exhibition, Montreal, 8 Pages (Sep. 2010)

(4) A Case Study of the Field Application of Economical Analysis and Effect with Leakage Flow Rates Reduction by Water Pressure Management
Ja Yong Koo, Akira Koizumi and Taeho Choi
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