

# Dr. Kei Yamashita



## INFORMATION

Name	Kei Yamashita
Nationality	Japanese
Affiliation	International Research Institute of Disaster Science (IRIDeS), Tohoku University
Section	Endowed Research Division of Earthquake induced Tsunami Risk Evaluation (Tokio Marine and Nichido Fire Insurance)
Position	Assistant Professor
Address	468-1 Aramaki Aza Aoba, Aoba-ku, Sendai, MIYAGI 980-0845, JAPAN
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## PROFILE

Dr. Yamashita is a Japanese Assistant Professor of Endowed Research Division of Earthquake induced Tsunami Risk Evaluation (Tokio Marine and Nichido Fire Insurance) in International Research Institute of Disaster Science (IRIDeS), Tohoku University since October 2015. He obtained his B. S. in Ocean Civil Engineering from Kagoshima University in 2009 and obtained his M.S. Eng. in Ocean Civil Engineering and Dr. Eng. in Life and Environmental Sciences in Kagoshima University in 2011 and 2014, respectively. After graduation, he became a doctoral research fellow of International Research Institute of Disaster Science (IRIDeS) in Tohoku University during 2014-2015. He is a member of Japan Society of Civil Engineers (JSCE), Japan Society for Natural Disaster Science and American Geophysical Union (AGU). He is one of tsunami experts on modeling by using the super computer with the academic back-ground of fluid dynamics specially non-liner dispersive waves. Recently, he has also investigated numerically sediment transport due to a tsunami. His research interests are nonlinear dispersive wave, tsunami modeling, sediment transport due to a tsunami, composite tsunami hazard, Eco-DRR for tsunami disaster, tsunami risk evaluation for not only human society but also coastal ecosystem such as seaweed bed.

## RESEARCH INTEREST

Non-linear dispersive wave; Tsunami modeling; Sediment transport due to a tsunami; Composite tsunami hazard; Eco-DRR; Tsunami risk evaluation for human society and coastal ecosystem such as seaweed bed

## EDUCATIONS

- March 2014 Kagoshima University, Dr.Eng in Life and Environmental Sciences  
March 2011 Kagoshima University, M.S.Eng. in Ocean Civil Engineering  
March 2009 Kagoshima University, B.S. in Ocean Civil Engineering

## PROFESSIONAL EXPERIENCES

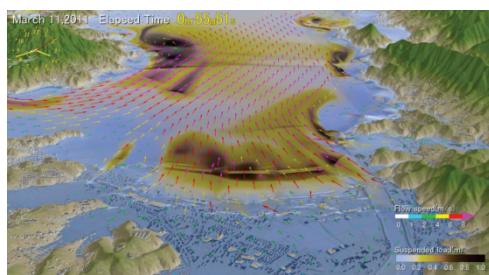
- October 2015 – Present Assistant Professor of International Research Institute of Disaster Science (IRIDeS), Tohoku University
- April 2014 – September 2015 Doctoral Research Fellow of International research Institute of Disaster Science (IRIDeS), Tohoku University
- October 2013 – March 2014 Research Assistant of Graduate School of Science and Engineering, Kagoshima University
- October 2012 – March 2013 Research Assistant of Graduate School of Science and Engineering, Kagoshima University
- October 2011 – March 2012 Research Assistant of Graduate School of Science and Engineering, Kagoshima University

## MEMBERS

- Japan Society of Civil Engineers, 2009-Present
- Japan Society for Natural Disaster Science, 2013-Present
- American Geophysical Union, 2016-Present

## AWARDS

1. The 1st Green Resilience Grand Prize Excellence Award, 2016
2. The President Award, Kagoshima University, 2013
3. The Excellent Presentation Award of 2011 fiscal year, Japan Society of Civil Engineers – West branch, 2012
4. The Excellent Presentation Award of 2010 fiscal year, Japan Society of Civil Engineers – West branch, 2011



Numerical simulation of sediment transport due to a tsunami in Rikuzentakata City

Sendai Umino-Mori Aquarium

## BOOKS AND PUBLICATIONS

1. Taro Kakinuma, **Kei Yamashita** and Keisuke Nakayama, Influence of velocity distribution and density stratification on generation or propagation of tsunamis, Advances in Geosciences, Vol. 28: Atmospheric Science and Ocean Sciences (Eds. C-C Wu and J. Gan), World Scientific Publishing Co., pp.67-78, October 2012.

## LIST OF REVIEWED MAJOR PAPERS (IN ENGLISH:14, IN JAPANESE:25, TOTAL: 39 )

1. **Kei Yamashita**, Yoshinori Shigihara, Daisuke Sugawara, Taro Arikawa, Tomoyuki Takahashi and Fumihiko Imamura, Effect of sediment transport on tsunami hazard and building damage – An integrated simulation of tsunami inundation, sediment transport and drifting vessels in Kesennuma City, Miyagi Prefecture during the Great East Japan Earthquake –, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 73, No. 2, 2017 (in Japanese, in press).
2. **Kei Yamashita**, Fumihiko Imamura, Shunji Iwama, Daisuke Sugawara and Tomoyuki Takahashi, Effect of tsunami-induced sediment transport and offshore tsunami waveform on enlargement of return flow, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 73, No. 2, 2017 (in Japanese, in press).
3. Anawat Suppasri, **Kei Yamashita**, Panon Latcharote, Roeber Volker, Akihiro Hayashi, Hiroyuki Ohira, Kentaro Fukui, Akifumi Hisamatsu and Fumihiko Imamura, Numerical analysis and field survey of the 2016 Fukushima earthquake and tsunami, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 73, No. 2, 2017 (in Japanese, in press).
4. Hiroyuki Ohira, **Kei Yamashita**, Akihiro Hayashi and Fumihiko Imamura, Strategic space design of multiple defense systems using coastal forests in Iwanuma City, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 73, No. 2, 2017 (in Japanese, in press).
5. Anawat Suppasri, Kentaro Fukui, **Kei Yamashita**, Hiroyuki Ohira, Natt Leelawat and Fumihiko Imamura, Developing fragility functions based on aquaculture raft and eelgrass due to tsunami damage: A case study of Mangokuura Lake, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 73, No. 2, 2017 (in press).
6. Akihiro Hayashi, **Kei Yamashita** and Fumihiko Imamura, Research on the effect of the damage level of the buildings by the coastal forest based on surveyed data of building damage by the Great East Japan Earthquake Tsunami, Journal of Japan Society of Civil Engineers, Ser. B1 (Hydraulic Engineering), Vol. 73, No. 4, pp.I\_1021-I\_1026, 2017 (in Japanese).
7. Toshitaka Baba, Sebastien Allgeyer, Jakir Hossen, Phil R. Cummins, Hiroaki Tsushima, Kentaro Imai, **Kei Yamashita**, Toshihiro Kato, Accurate numerical simulation of the far-field tsunami caused by the 2011 Tohoku earthquake, including the effects of Boussinesq dispersion, seawater density stratification, elastic loading, and gravitational potential change, Ocean Modelling, Vol.111, pp.46-54, 2017.
8. Anawat Suppasri, Natt Leelawat, Panon Latcharote, Volker Roeber, **Kei Yamashita**, Akihiro Hayashi, Hiroyuki Ohira, Kentaro Fukui, Akifumi Hisamatsu, David Nguyen, Fumihiko Imamura, The 2016 Fukushima earthquake and tsunami: Local tsunami behavior and recommendations for tsunami disaster risk reduction, International Journal of Disaster Risk Reduction, Vol.21, pp.323-330, 2017.
9. **Kei Yamashita**, Daisuke Sugawara, Tomoyuki Takahashi, Fumihiko Imamura, Yuichi Saito, Yoshiyuki Imato, Tadashi Kai, Hitoshi Uehara, Toshihiro Kato, Kazuto Nakata, Ryotaro Saka and Asao Nishikawa, Numerical simulations of large-scale sediment transport caused by the 2011 Tohoku Earthquake Tsunami in Hirota Bay, Southern Sanriku Coast, Coastal Engineering Journal, Vol. 58, No. 4, 1640015 (28 pages), DOI: 10.1142/S0578563416400155, 2016.
10. Anawat Suppasri, Panon Latcharote, Jeremy D. Bricker, Natt Leelawat, Akihiro Hayashi, **Kei Yamashita**, Fumiyasu Makinoshima, Volker Roeber and Fumihiko Imamura, Improvement of tsunami countermeasures based on lessons from The 2011 Great East Japan earthquake and tsunami — Situation after five years, Coastal Engineering Journal, Vol. 58, No. 4, 1640011 (30 pages), DOI: 10.1142/S0578563416400118, 2016.

# LIST OF REVIEWED MAJOR PAPERS (IN ENGLISH:14, IN JAPANESE:25, TOTAL: 39 )

11. Kei Yamashita, Taro Kakinuma and Keisuke Nakayama, Properties of surface and internal solitary waves, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 72, No. 1, pp.27-41, 2016 (in Japanese).
12. Kei Yamashita, Taro Kakinuma and Keisuke Nakayama, A numerical solution for the coexisting field of surface and internal solitary waves, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 72, No. 2, pp.I\_13-I\_18, 2016 (in Japanese).
13. Hiroyuki Ohira, Akihiro Hayashi, Kei Yamashita and Fumihiko Imamura, Tsunami damage mitigation effect by multiple defense system using coastal forest in Iwanuma City, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 72, No. 2, pp.I\_1459-I\_1464, 2016 (in Japanese).
14. Tamon Suwa, Masaki Kazama, Fumihiko Imamura, Daisuke Sugawara and Kei Yamashita, Resolution dependency of tsunami simulation by an SPH method, Proceedings of the Conference on Computational Engineering and Science, Vol.21, CD-ROM, 2016 (in Japanese).
15. Kei Yamashita and Taro Kakinuma, Properties of surface and internal solitary waves, Proceedings of 34th International Conference on Coastal Engineering, No.34 (2014), waves. 45, 15 pages, 2015.
16. Akihiko Kimura, Kei Yamashita and Taro Kakinuma, Surf points using a set of structures to amplify ship generated waves, Proceedings of 34th International Conference on Coastal Engineering, No.34 (2014), waves. 51, 7 pages, 2015.
17. Taro Kakinuma, Hiroshi Matsumoto, Kei Yamashita and Yudai Yanagi, Proceedings of 34th International Conference on Coastal Engineering, No.34 (2014), current. 17, 7 pages, 2015.
18. Kei Yamashita, Daisuke Sugawara, Tomoyuki Takahashi, Fumihiko Imamura, Yuichi Saito, Yoshiyuki Imato, Tadashi Kai, Hitoshi Uehara, Toshihiro Kato, Kazuto Nakata, Ryotaro Saka, Asao Nishikawa, Numerical simulation of large-scale sediment transport due to the 2011 Tohoku Earthquake Tsunami in Rikuzentakata City, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 71, No. 2, pp.I\_499-I\_504, 2015 (in Japanese).
19. Tetsuya Nakahira, Taro Kakinuma, Takatsugu Kamba, Takahiro Murakami, Keisuke Nakayama, Yudai Yanagi and Kei Yamashita, A numerical simulation of tsunami-height reduction using a very large floating structure, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 71, No. 2, pp.I\_1033-I\_1038, 2015 (in Japanese).
20. Kei Yamashita, Taro Kakinuma, Asuki Yoshimoto and Ryo Yoshikawa, Nonlinear phenomena in propagation of large-amplitude internal solitary waves, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 70, No. 2, pp.I\_6-I\_10, 2014 (in Japanese).
21. Kei Yamashita, Taro Kakinuma and Akihiko Kimura, Numerical analyses of internal solitary waves propagating from deep water to shallow water, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 70, No. 2, pp.I\_11-I\_15, 2014 (in Japanese).
22. Ryo Yoshikawa, Taro Kakinuma, Kei Yamashita and Hideki Tachiwada, Numerical simulation of tsunami propagation through the sea on the plate or over the mantle, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 70, No. 2, pp.I\_171-I\_175, 2014 (in Japanese).
23. Yudai Yanagi, Taro Kakinuma, Megumi Togawa, Kei Yamashita and Hiroshi Matsumoto, Numerical simulation of tsunamis in both Shibusi and Kagoshima Bays in Kagoshima Prefecture, Japan, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 70, No. 2, pp.I\_176-I\_180, 2014 (in Japanese).
24. Tatsuya Nakahira, Taro Kakinuma, Ko Yamamoto, Kei Yamashita and Takahiro Murakami, Can very large floating structures reduce tsunami height?, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 70, No. 2, pp.I\_911-I\_915, 2014 (in Japanese).
25. Kei Yamashita and Taro Kakinuma, Numerical solutions of surface and internal solitary waves based on nonlinear wave equations, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 69, No. 2, pp.I\_6-I\_10, 2013 (in Japanese).

## LIST OF REVIEWED MAJOR PAPERS (IN ENGLISH:14, IN JAPANESE:25, TOTAL: 39 )

26. Ko Yamamoto, **Kei Yamashita** and Taro Kakinuma, Numerical simulation of oscillation of a very large floating structure due to takeoff or landing of an aircraft, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 69, No. 2, pp.I\_876-I\_880, 2013 (in Japanese).
27. Akihiko Kimura, **Kei Yamashita** and Taro Kakinuma, Surf points using ship generated waves, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 69, No. 2, pp.I\_1326-I\_1330, 2013 (in Japanese).
28. Taro Kakinuma, **Kei Yamashita**, Keisuke Nakayama, Interaction of surface and internal waves with very large floating structures, Proceedings of 6th International Conference on Coastal Structures, World Scientific Publishing Co. Pte. Ltd., pp.913-922, 2013.
29. **Kei Yamashita**, Taro Kakinuma and Keisuke Nakayama, Shoaling of nonlinear internal waves on a uniformly sloping beach, Proceedings of 33rd International Conference on Coastal Engineering, No.33 (2012), waves. 72, 13 pages, 2013.
30. **Kei Yamashita**, Taro Kakinuma, Ko Yamamoto, Keisuke Nakayama, Numerical simulation of generation processes of Mach stems, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 68, No. 2, pp.I\_6-I\_10, 2012 (in Japanese).
31. Taro Kakinuma, Ryo Sawada, **Kei Yamashita**, Tsunakiyo Iribi, Numerical simulation of tsunamis due to a landslide, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 68, No. 2, pp.I\_61-I\_65, 2012 (in Japanese).
32. Taro Kakinuma, **Kei Yamashita**, Keisuke Nakayama, Surface and internal waves due to a moving load on a very large floating structure, Journal of Applied Mathematics, Vol. 2012, Article ID 830530, 14 pages, 2012.
33. **Kei Yamashita**, Taro Kakinuma and Keisuke Nakayama, Surface and internal waves due to a moving load on a very large floating structure, Journal of Japan Society of Civil Engineers, Ser. B3 (Ocean Engineering), Vol. 67, No.2, pp.I\_160-I\_165, 2011 (in Japanese).
34. Taro Kakinuma, **Kei Yamashita**, Shigeaki Chosa, Koji Fujima and Keisuke Nakayama, Influence of velocity distribution and density stratification on generation or propagation of tsunamis, Journal of Japan Society of Civil Engineers, Ser. B3 (Ocean Engineering), Vol. 67, No.2, pp.I\_553-I\_558, 2011 (in Japanese).
35. Taro Kakinuma, Kazuo Nakamura, **Kei Yamashita** and Keisuke Nakayama, Influence of velocity distribution and density stratification on generation or propagation of tsunamis, Proceedings of the 6th International Conference on Asian and Pacific Coasts, pp.1608-1615, 2011.
36. **Kei Yamashita**, Taro Kakinuma and Keisuke Nakayama, Numerical analyses on propagation of nonlinear internal waves, Proceedings of 32nd International Conference on Coastal Engineering, No. 32 (2010), waves. 24, 15 pages, 2011.
37. **Kei Yamashita**, Taro Kakinuma, Keisuke Nakayama, Masayuki Oikawa, Hidekazu Tsuji and Manabu Nishikawa, Nonlinear characteristics of internal waves in a deep-water region or near a wave-breaking point, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 66, No.1, pp.26-30, 2010 (in Japanese).
38. Taro Kakinuma, **Kei Yamashita**, Keisuke Nakayama, Nonlinear characteristics of internal waves propagating over a submerged breakwater, Journal of Japan Society of Civil Engineers, Ser. B2 (Coastal Engineering), Vol. 65, No.1, pp.66-70, 2009 (in Japanese).
39. Taro Kakinuma, **Kei Yamashita**, Keisuke Nakayama, A numerical study on propagation of nonlinear internal waves, Proceedings of the 5th International Conference on Asian and Pacific Coasts, Vol. 3, pp.208-214, 2009.

## CONFERENCE TALKS (IN ENGLISH: 3, IN JAPANESE: 28, TOTAL 31)

1. **Kei Yamashita**, Yoshinori Shigihara, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiko Imamura, Numerical simulation of composite tsunami hazards by integrated tsunami model – Tsunami inundation, sediment transport and drifting ships caused in Kesennuma City, Miyagi Prefecture during the Great East Japan Earthquake –, The 26th Ocean Engineering Symposium, Tokyo, March 6-7, 2017 (in Japanese).
2. **Kei Yamashita**, Suppasri Anawat and Fumihiko Imamura, Development of tsunami inundation simulation model for urban area with buildings by porous body model, The 2016 Annual Seminar of Japan Society of Civil Engineers – Tohoku, Miyagi, March 4, 2017 (in Japanese).
3. **Kei Yamashita**, Yoshinori Shigihara, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiko Imamura, Integrated simulation of tsunami inundation, sediment transport and drift of floating debris – scenario of multiple hazard expansion –, The 6th Annual Tsunami Seminar, Osaka, December 8-9, 2016 (in Japanese).
4. Suppasri Anawat, Roeber Volka and **Kei Yamashita**, Field Survey for tsunami of The 2016 Fukushima Earthquake and Tsunami, The Report Meeting of the 2016 Fukushima Earthquake and Tsunami, Miyagi, December 22, 2016 (in Japanese).
5. **Kei Yamashita**, Yoshinori Shigihara, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiko Imamura, Numerical simulation of composite tsunami hazard including tsunami inundation, sediment transport and drift of floating debris by using integrated tsunami model, The 35th Annual Seminar of Japan Society for Natural Disaster Science, Shizuoka, September 21, 2016 (in Japanese).
6. **Kei Yamashita**, Yoshinori Shigihara, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiko Imamura, Numerical simulation of composite tsunami hazard including tsunami inundation, sediment transport and drift of floating debris by using integrated tsunami model, The 35th Annual Seminar of Japan Society for Natural Disaster Science, Shizuoka, September 21, 2016 (in Japanese).
7. **Kei Yamashita**, Importance of sediment transport due to tsunamis in prediction and evaluation of tsunami damage – influence to tsunami hazard and coastal ecosystem –, The Tsunami Seminar in Tokushima University, Tokushima, September 16, 2016 (in Japanese).
8. **Kei Yamashita**, Influence of sediment transport due to tsunamis on tsunami damage expansion found by numerical simulation – Tsunami hazard and marine ecosystem –, The 7th Earthquake countermeasure technology exhibition, Miyagi, August 25, 2016 (in Japanese).
9. **Kei Yamashita**, Yoshinori Shigihara, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiko Imamura, Tsunami damage expansion caused by sediment transport due to a tsunami by numerical simulation using Kyoto computer, The 13th Disaster Prevention Culture Lecture in Kesen-numa City, Miyagi, July 16, 2016 (in Japanese).
10. **Kei Yamashita**, Suppasri Anawat, Fumihiko Imamura and Daisuke Sugawara, Development of tsunami inundation simulation model for urban area with buildings by porous body model, The 2015 Specific Project Research Results Reporting Meeting in IRIDeS, Miyagi, June 13, 2016 (Poster session in Japanese).
11. **Kei Yamashita**, Earthquake and tsunami risk assessment and comprehensive reduction response – through industry-university cooperation –, The Sendai Disaster Mitigation Future Forum 2016, Miyagi, March 12, 2016 (in Japanese).
12. **Kei Yamashita**, Preparation to complicated tsunami disaster, The 34th IRIDeS Friday Forum, Miyagi, February 26, 2016 (in Japanese).
13. **Kei Yamashita**, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiko Imamura, Influence of sediment transport on seaweed bed dissipation in Shizugawa Bay, Miyagi Prefecture in the 2011 Tohoku Earthquake and Tsunami, The 2015 Annual Seminar of Tohoku Disaster Science Research, Fukushima, January 9, 2016 (in Japanese).
14. **Kei Yamashita**, Daisuke Sugawara, Tomoyuki Takahashi, Fumihiko Imamura, Yuichi Saito, Yoshiyuki Imato, Tadashi Kai, Hitoshi Uehara, Toshihiro Kato, Kazuto Nakata, Ryotaro Saka, Asao Nishikawa, Numerical simulation of large-scale sediment transport due to the 2011 Tohoku Earthquake Tsunami in Rikuzentakata City, The 62th Conference on Coastal Engineering of Japan Society of Civil Engineers, Tokyo, November 11, 2015 (in Japanese).

## CONFERENCE TALKS (IN ENGLISH: 3, IN JAPANESE: 28, TOTAL 31)

15. **Kei Yamashita**, Daisuke Sugawara, Tomoyuki Takahashi and Fumihiro Imamura, Numerical simulation of tsunami and sediment transport in the 2011 Great East Japan Earthquake, JAMSTEC Seminar in Public Forum of the UN World Conference on Disaster Risk Reduction, Miyagi, March 17, 2015 (in Japanese).
16. **Kei Yamashita**, Taro Kakinuma, Asuki Yoshimoto and Ryo Yoshikawa, Nonlinear phenomena in propagation of large-amplitude internal solitary waves, The 61th Conference on Coastal Engineering of Japan Society of Civil Engineers, Nagoya, November 12, 2014 (in Japanese).
17. **Kei Yamashita**, Daisuke Sugawara and Fumihiro Imamura, Numerical simulation of propagation and inundation of tsunami in Onagawa Bay, Miyagi Prefecture during the 2011 Tohoku Earthquake and Tsunami, The 33th Annual Seminar of Japan Society for Natural Disaster Science, Kagoshima, September 24, 2014 (in Japanese).
18. **Kei Yamashita** and Taro Kakinuma, Properties of surface and internal solitary waves, The 34th International Conference on Coastal Engineering, Seoul, Korea, June 18, 2014.
19. **Kei Yamashita** and Taro Kakinuma, Numerical solutions of surface and internal solitary waves based on nonlinear wave equations, The 60th Conference on Coastal Engineering of Japan Society of Civil Engineers, Fukuoka, November 13, 2013 (in Japanese).
20. **Kei Yamashita**, Numerical solution of surface and internal solitary waves, The 2013 Meeting on Coastal Engineers of Kyushu and Yamaguchi Area, Fukuoka, September 1, 2013 (in Japanese).
21. **Kei Yamashita** and Taro Kakinuma, Numerical solutions of surface and internal solitary waves based on nonlinear wave equations, The 2012 Annual Seminar Japan Society of Civil Engineers – West, Kumamoto, March 9, 2013 (in Japanese).
22. **Kei Yamashita**, Taro Kakinuma, Ko Yamamoto, Keisuke Nakayama, Numerical simulation of generation processes of Mach stems, The 59th Conference on Coastal Engineering of Japan Society of Civil Engineers, Hiroshima, November 14, 2012 (in Japanese).
23. **Kei Yamashita**, Numerical simulation of generation processes of Mach stems, The 2013 Meeting on Coastal Engineers of Kyushu and Yamaguchi Area, Oita, September 1, 2012 (in Japanese).
24. **Kei Yamashita**, Taro Kakinuma and Keisuke Nakayama, Shoaling of nonlinear internal waves on a uniformly sloping beach, The 33th International Conference on Coastal Engineering, Santander, Spain, July 3, 2014.
25. **Kei Yamashita**, Taro Kakinuma, Keisuke Nakayama, Numerical simulation of generation processes of Mach stems, The 59th Conference on Coastal Engineering, The 2011 Annual Seminar Japan Society of Civil Engineers – West, Kagoshima, March 3, 2013 (in Japanese).
26. **Kei Yamashita**, Taro Kakinuma and Keisuke Nakayama, Surface and internal waves due to a moving load on a very large floating structure, The 36th Symposium on Ocean Engineering of Japan Society of Civil Engineers of Japan Society of Civil Engineers, Ehime, July 1, 2011 (in Japanese).
27. **Kei Yamashita**, Taro Kakinuma, Keisuke Nakayama, Surface and internal waves due to a moving point load on a very large floating structure, The 2010 Annual Seminar Japan Society of Civil Engineers – West, Fukuoka, March 5, 2011 (in Japanese).
28. **Kei Yamashita**, Taro Kakinuma, Keisuke Nakayama, Masayuki Oikawa, Hidekazu Tsuji and Manabu Nishikawa, Nonlinear characteristics of internal waves in a deep-water region or near a wave-breaking point, The 57th Conference on Coastal Engineering of Japan Society of Civil Engineers, Kyoto, November 10, 2010 (in Japanese).
29. **Kei Yamashita**, Taro Kakinuma and Keisuke Nakayama, Numerical analyses on propagation of nonlinear internal waves, The 32th International Conference on Coastal Engineering, Shanghai, China, July 3, 2010.
30. Taro Kakinuma, **Kei Yamashita**, Keisuke Nakayama, Nonlinear characteristics of internal waves propagating over a submerged breakwater, The 56th Conference on Coastal Engineering of Japan Society of Civil Engineers, Ibaraki, November 18, 2009 (in Japanese).
31. Taro Kakinuma, **Kei Yamashita**, Keisuke Nakayama, Nonlinear characteristics of internal waves propagating over a submerged breakwater, The 64th Annual Seminar of Japan Society of Civil Engineers, Fukuoka, September 2, 2009 (in Japanese).