Solid Earth Research Group

Dynamics of Earthquakes and Volcanism Research Subgroup

Published Journal Papers:

1. Abe, I. and F. Imamura (2010), Study on the evaluation of tsunami inundation in real time with database and its accuracy., Conference of Coastal Engineering JSCE B2-66,

2. Anawat, S., S. Koshimura and F. Imamura (2010), Developing the tsunami fragility curves for structural destruction along the Thailand coast., Proc. of International session of Conference of Coastal Engineering JSCE, 1,


7. Goto, K., T. Kawana and F. Imamura (2010), Historical and geological evidence of boulders deposited by tsunamis, southern Ryukyu Islands, Japan, Earth-Science Reviews, Vol.201,


11. Huang, Z., D. Zhao, N. Umino, L. Wang, T. Matsuzawa, A. Hasegawa and T. Yoshida (2010), P-wave tomography, anisotropy and seismotectonics in the eastern margin of Japan Sea., TecT. Onophysics, 489,


28. Takahara, K., J. Muto and H. Nagahama (2010), Skin depth of electromagnetic wave through fractal crustal rocks. IEEJ Trans. , FM (Elect. Eng. Jpn.), 130,
33. Yamada, R. and T. Yoshida (2010), The characteristics of the particular occurrence of rare-metals associated with base-metal deposits in the northern Tohoku district, Japan., Resource Geology, 60 (3)
34. Yamada, R., T. Yoshida, T. Kakegawa, F. Nara and Y. Ogawa (2010), Several constraints of indium enrichment associated with base-metal deposits in the vicinity of northern Tohoku district., Resource Geology, 60 (3)

Symposium Participations
3. Chen, S. W., M. Sato, PolInSAR Complex Coherence Estimation Based on Similarity Test of Covariance Matrix, POLinSAR 2011 Workshop, January 24-28, 2011, Frascati, Italy
4. Emoto, K., H. Sato and T. Nishimura, Envelope Synthesis in Layered Random Media with Background-Velocity Discontinuities Based on the Markov Approximation. , American Geophysical Union 2010 Fall meeting, December 13-17, 2010, San Francisco U.S.A
6. Fujimoto, H., M. Kido and Y. Osada, Improvement in the observation system for the GPS/A seafloor positioning, American Geophysical Union 2010 Fall meeting, December 13-17, 2010, San Francisco U.S.A
7. H. Liu, J. Chen and M. Sato, UWB measurement of dielectric permittivity of lossy media., AP-RASC 2010 in Proc. FP-1, September, 2010, Toyama, Japan
10. Inazu, D., R. Hino and H. Fujimoto, Global, barotropic ocean bottom pressure modeling: Sensivity to spatial resolution and boundary conditions, American Geophysical Union 2010 Fall meeting, December 13-17, 2010, San Francisco U.S.A
K. Mansour and M. Sato, FDTD simulation of electromagnetic wave scattering from a rough surface synthesized by Fractal theory, The 16th Formation Evaluation Symposium of Japan in Proceeding, October 7-8, 2010, Chiba, Japan


Kido, M., Y. Osada and H. Fujimoto, Temporal variation of oceanic sound speed structure affecting seafloor geodesy, American Geophysical Union 2010 Fall meeting, December 13-17, 2010, San Francisco U.S.A


Kitamura, Y., T. Nishimura, H. Sato, Effect of topography on volcano deformation caused by magma in an open conduit by Finite Element Method., Volcanological Society of Japan 2010 Fall meeting, October 9-11, 2010, Kyoto, Japan


Kusano, S., M. Watanabe, M. Sato, proposal of a new algorithm of the three-component decomposition for azimuthally inclined objects, ALOS PI Symposium, November 16, 2010, Tokyo, Japan


Muto, J., K. Takahara and H. Nagahama, Skin depth of electromagnetic wave through fractal crustal rocks. O-134, The 117th Annual Meeting of the Geology Society of Japan, O-135, November 18-20, 2010, Toyama, Japan


30. **Nishimura, T.,** M. Iguchi, R. Kawaguchi, M. Surono, Hendrasto and U. Rosadi, Volcano inflation associated with eruptions at Semeru volcano., JST-JICA program symposium "Multi-disciplinary hazard reduction from earthquakes and volcanoes in Indonesia", Kobe, Japan

31. **Nishimura, T.,** M. Iguchi, R. Kawaguchi, M. Surono, Hendrasto and U. Rosadi, Volcano Inflation prior to Gas Explosion Events at Semeru Volcano, Indonesia., Volcanological Society of Japan 2010 Fall meeting, October 9-11, 2010, Kyoto, Japan


38. Omori, Y., I. Tohbo, **H. Nagahama,** Y. Ishikawa, M. Takahashi, **H. Sato** and T. Sekine, Variation of atmospheric radon concentration with bimodal seasonality on the Oshika Peninsula, Miyagi prefecture, 11th Workshop on Environmental Radioactivity, March 1-3, 2010, Tsukuba Japan


42. Osada, Y., M. Kido and **H. Fujimoto,** Observation of seafloor crustal movement using the seafloor acoustic ranging on Kumano-nada, American Geophysical Union 2010 Fall meeting, December 13-17, 2010, San Francisco U.S.A


46. Sato, H., Retrieval of Green's function from the cross-correlation function in a scattering medium illuminated by noise sources, Japan Geoscience Union meeting 2010, May 23-28, 2010, Chiba, Japan

47. Sato, H., Retrieval of Green's Function Having a Coda Tail from the Cross-Correlation Function in a Scattering Medium on the Basis of the First Order Born Approximation, American Geophysical Union 2010 Fall meeting, December 13-17, 2010, San Francisco U.S.A


50. Sato, M., ALIS: GPR for Humanitarian demining and its evaluation in Cambodia, IEEE AP-S symposium,


53. Sato, M., Disaster Mitigation by Electromagnetic Methodologies:What we have learned from Humanitarian Demining, 25th SIP Symposium, November 24-26, 2010, Nara, Japan

54. Sato, M., Evaluation test of ALIS in Cambodia for humanitarian demining, Defense and Security Symposium, April, 2010, Orlando, FL, USA

55. Sato, M., Evaluation test of ALIS Hand-held Dual sensor in Cambodia, The ANTEM/AMEREM 2010, July 5 - 9, 2010, Ottawa, Canada


57. Sato, M., GPR Evaluation Test for Humanitarian Demining in Cambodia, IGRSS2010,

58. Sato, M., Imaging Algorithm of ALIS Hand-held Dual sensor, The ANTEM/AMEREM 2010, July 5 - 9, 2010, Ottawa, Canada


62. Omori, Y. and H. Nagahama, Nocturnal evolution of atmospheric radon concentration under near-surface meteorological conditions, EGU General Assembly 2010, EGU2010-7481, May 2-8,
2010, Vienna, Austria


65. Yokota, Y., **M. Sato**, Archaeological Survey by accurate GPR, 25th SIP Symposium, November 24-26, 2010, Nara, Japan


Books:


