

The 13th SEGJ International Symposium / Technical Program

Invited talk		Highlight talk					
Nov. 12, Room A				Nov. 12, Room C			
Passive Seismic / Microseismic and Monitoring (11/12 13:00-14:40)		Kyosuke Okamoto (AIST), Yusuke Mukuhira (Tohoku University)		GPR Technologies (11/12 13:00-14:40)		Kazunori Takahashi (OYO Corp.), Kyosuke Onishi (PWRI)	
13:00 -13:20	Estimation of water flow in geothermal field inferred from microseismic events	Kyosuke Okamoto, Hiroshi Asanuma (AIST), Takashi Okabe (GERD), Yasuyuki Abe (OAG), Masatoshi Tsuzuki (JOGMEC)		13:00 -13:20	Integrated Geophysical Surveys at the UNESCO's World Heritage Site, the Ancient City, Historical City of Ayutthaya, Thailand	Passakorn Pananont (Kasetsart University), Niran Chaimanee (Department of Mineral Resource, Bangkok), Pattharawadee Deesomchok, Suthipob Chantrapakajee (Department of Fine Arts, Ayutthaya)	
13:20 -13:40	Direct determination of tectonic stress field and individual focal mechanisms from waveform amplitudes	Kazutoshi Imanishi (Geological Survey of Japan)		13:20 -13:40	Survey of Beach Ridge Structure by GPR: Case Study at Coastal area of Watari, Miyagi, Japan	Kazuki Fujisawa, Kazutaka Kikuta, Motoyuki Sato (Tohoku University)	
13:40 -14:00	Introduction of in-situ stress information from borehole logging to source characterization of microseismic events	Yusuke Mukuhira (ERL, MIT), Kazumasa Fuse (IFS, Tohoku University), Makoto Naoi (Kyoto University), Takatoshi Ito (IFS, Tohoku University), Michael C. Fehler (ERL, MIT), Hirokazu Moriya (Tohoku University), Hiroshi Asanuma (FREA, AIST), Markus O. Haring (Haring GeoProject)		13:40 -14:00	Fundamental Study of Borehole radar to evaluate a subsurface structure	Tsogtbaatar Amarsaikhan, Motoyuki Sato (Tohoku University)	
14:00 -14:20	Development of wide-area seismic intensity prediction system using microtremor array survey in Banda Aceh	Takao Sasaki (Chi-ken Sogo Consultants), Asril (Syiah Kuala University), Yoshinori Furumoto (Nagano National College of tec), Chisa Hikime (CTI Engineering), Tetsuya Oba (TYS)		14:00 -14:20	Concept of an underwater exploration system for shallow layer under the seabed by electromagnetic waves	Hiroshi Yoshida (JAMSTEC), Kenichi Takizawa, Takashi Matsuda, Ryotaro Suga (NICT), Mitsuyasu Deguchi, Takafumi Kasaya, Ryo Sato (JAMSTEC), Fumihide Kojima (NICT)	
14:20 -14:40	Deep Exploration using Ambient Noise in Kathmandu Valley, Nepal -with an emphasis on CCA method using irregular shape Array-	Toshiaki Yokoi, Takumi Hayashida (IIEE, BRI, Japan), Mukunda Bhattarai (NSC, DMG, Nepal), Tara Pokharel (DMG, Nepal), Santosh Dhakal (Univ. Canterbury, New Zealand), Suresh Shrestha (DMG, Nepal), Chintan Timsina (NSC, DMG, Nepal), Dinesh Nepali (DMG, Nepal)		14:20 -14:40	Tree trunk imaging by combining the reflection and transmission measurements of GPR	Kazunori Takahashi, Kunio Aoike, Ken Kajino, Yayoi Ashiba, Nobuaki Ishizawa (OYO Corp.)	
Passive Seismic / Microseismic and Monitoring (11/12 14:50-16:30)		Ehsan, Jamali (JGI, Inc.), Kyosuke Okamoto (AIST)		DC / EM / NMR Technologies (11/12 14:50-16:30)		Shogo Komori (AIST), Chisato Konishi (OYO Corp.)	
14:50 -15:10	Seismic Modelling of Campo de Dalias Basin (SE Spain) from Ambient Noise Analysis	Helena Seivane, Antonio Garcia-Jerez, Manuel Navarro (University of Almeria), Jose Pinha-Flores (UNAM, Mexico), Francisco Luzon (University of Almeria)		14:50 -15:10	Evaluation of effect on transfer functions by time-spatial geomagnetic variation using Multi-Channel Nonnegative Matrix Factorization	Shinya Sato, Tada-nori Goto (Kyoto University)	
15:10 -15:30	An new method to monitor and determine permeability of concrete based on resistivity and time-domain chargeability measurements	Pham Huy Giao, Lahiru Nagasingha, Pramuditha Theekshana (Asian Institute of Technology)		15:10 -15:30	An initial experiment of EM-ACROSS with magnetotelluric sounding in the Mount Kusatsu-Shirane region, Japan	Kuo Hsuan Tseng, Yasuo Ogawa (Tokyo Institute of Technology), Takahiro Kunitomo (Nagoya University), Masato Fukai (Tokyo Institute of Technology), Edward A. Bertrand (GNS Science), Yusuke Kinoshita (Tokyo Institute of Technology), Takuto Minami (University of Tokyo)	
15:30 -15:50	Evaluation of Optimal Processing Parameters for Automatic Continuous Monitoring Using Ambient Noise	Fernando Lawrens Hutapea, Hiro Nimiya, Tatsunori Ikeda, Takeshi Tsuji (Kyushu University)		15:30 -15:50	Application of inversion using Tipper data for analysis of resistivity structure in geothermal field	Yuji Yamada, Tada-nori Goto (Kyoto University)	
15:50 -16:10	Building up a national center for Geo-Monitoring in the fields of natural hazards in Austria - a new task for a geological survey	Robert Supper, Marc Ostermann, Birgit Jochum, David Ottowiz (Geological Survey of Austria)		15:50 -16:10	How are seafloor ore deposits produced at an active hydrothermal field? - Implication from marine DC resistivity survey in Okinawa Trough, Japan	Tadanori Goto, Keiichi Ishizu (Kyoto Univ.), Chatchai Vachiriatienchai (Curl-E Geophysics Co, Ltd.), Weerachai Siripunvaraporn (Mahidol Univ.), Takafumi Kasaya, Hisanori Iwamoto (JAMSTEC)	
16:10 -16:30	Towards monitoring the subsurface using diving waves	Yi Liu, Bjarte Foseide, Martin Landro (NTNU)		16:10 -16:30	Identification of Sumatran Fault Zone Using Magnetotelluric and Garvity Data	Nurhasan (Bandung Institute of Technology), Yasuo Ogawa (Tokyo Institute of Technology), Fumiaki Kimata (Tono Research Institute of Earthquake Science), Dobby Sutarno (Bandung Institute of Technology), Didik Sugiyanto, Nazli Ismail (Syiah Kuala University)	
Nov. 13, Room A				Nov. 13, Room C			
Geophysical application of Data science (11/13 9:00-10:40)		Yoshihiro Yamashita (OYO Corp.), Keiichi Suzuki (Kawasaki Geological Engineering Co.,Ltd.)		Near Surface Geophysics 1 (11/13 9:00-10:40)		Chisato Konishi (OYO Corp.), Tatsunori Ikeda (Kyushu University)	
9:00 -9:20	Effect of rock physics modeling in impedance inversion from seismic data using convolutional neural network	Vishal Das, Ahinoam Pollack, Uri Wollner, Tapan Mukerji (Stanford University)		9:00 -9:20	Inversion of the soil-water characteristic curve in an unsaturated dyke using geophysical datasets	Atsushi Suzuki, Shohei Minato (OYO corporation, TU Delft), Ranajit Ghose (TU Delft)	
9:20 -9:40	Improving efficiency of cavity detection under paved road from GPR data using deep learning method	Yoshihiro Yamashita, Tomohiro Kamoshita (OYO Coporation), Yasuhiro Akiyama, Hideharu Hattori, Yasuki Kakishita (HITACHI Ltd.), Takeshi Sadaki, Hyuga Okazaki (Hitachi Information & Telecommunication Engineering, Ltd.)		9:20 -9:40	A new approach of estimating density variations of surface-layers using horizontal gravity gradient data	Shigeki Mizutani (KGE)	
9:40 -10:00	Attempt to apply the machine learning for GPR data	Jun Ando, Keiichi Suzuki, Taro Kusagaya, Eiichiro Nishiyama, Takehiro Ohara (Kawasaki Geological Engineering)		9:40 -10:00	Shallow velocity structure near the CO2 injection well candidate of Gundih CCS Project derived from First Arrival Seismic Tomography	Rachmat Sule, Riskiray Ryannugroho, Alfian Bahar (Institut Teknologi Bandung)	
10:00 -10:20	Machine Learning for Land Classification - A SOM Case Study of Broken Hill	Tasman Gillfeather-Clark (University of Western Australia), Luke Smith (Macquarie University)		10:00 -10:20	Surface-wave phase velocity tomography using active-source seismic data	Tatsunori Ikeda, Takeshi Tsuji (Kyushu University)	
10:20 -10:40	Machine Learning: Using Optimized KNN (K-Nearest Neighbor) to Predict the Facies Classification	Hadyan Pratama (Pertamina University)		10:20 -10:40	Application of the Hybrid Surface-Wave Method to marine geotechnical Surveys	Takaho Kita (TKOLI), Tomio Inazaki (PWRI), Koichi Hayashi (OYO)	
Disaster Mitigation Application (11/13 10:50-12:30)		Hiroaki Sato (CRIEPI), Seiji Tsuno (RTRI)		Near Surface Geophysics 2 (11/13 10:50-12:30)		Qingchun Li (Changan University, China), Tatsunori Ikeda (Kyushu University)	
10:50 -11:10	Spatial variation of S-wave site amplification factors estimated using observed ground motion data in the Tokyo metropolitan area	Hiroyuki Miyakoshi (JR East), Seiji Tsuno (Railway Technical Res. Inst.), Kosuke Chimoto, Hiroaki Yamanaka (Tokyo Tech)		10:50 -11:10	Walk-along surface wave survey: A new method for the high-resolution near-surface S-wave velocity structure imaging.	Tomio Inazaki (PWRI), Hiroshi Kisanuki (OYO Corporation), Takaho Kita (TK Ocean-Land Investigations,), Koichi Hayashi (OYO Corporation)	
11:10 -11:30	Chain array analysis and seismic interferometry analysis on microtremors observed with a double linear seismometer array in Inzai City, Chiba Prefecture	Ryohei Many, Hidekazu Yamamoto, Tsuyoshi Saito (Iwate University), Masazumi Onishi, Tsutomu Watanabe, Taro Koike (GEOSYS, INC.)		11:10 -11:30	Near surface geological mapping with Rayleigh wave imaging in Inner Mongolia, China	Qingchun Li, Guangzhou Shao (Changan University, China), Xinxin Li (Xian Shiyou University, China), Jun Liu, Qin Li (Xi'an University of Science and Technology), Wei Zhang (Changan University, China)	
11:30 -11:50	Estimation of shallow S-wave velocity structure using microtremor exploration at strong motion stations observed the 2014 Aegean Sea earthquake	Kosuke Chimoto (Tokyo Tech.), Seckin Ozgur Citak, Ozlem Karagoz (COMU), Oguz Ozel (Istanbul Univ.), Hiroaki Yamanaka (Tokyo Tech.)		11:30 -11:50	Application of 3D ambient noise tomography for an efficient S-wave velocity structure investigation	Chisato Konishi, Koichi Hayashi, Ying Liu, Haruhiko Suzuki, Tadashi Sato (OYO Corporation)	
11:50 -12:10	Characteristics of building vibrations estimated in various site conditions in Eskisehir, Turkey	Seiji Tsuno (RTRI), Hiroaki Yamanaka (Tokyo Tech.), Onur Kaplan (Anadolu Univ.), Mehmet Safa Arslan, Oguz Ozel (Istanbul Univ.)		11:50 -12:10	Making of 3D S-wave velocity structure model by passive surface wave method at the inside of a test circuit road	Takayuki Kobayashi, Takanori Ogahara, Tomio Inazaki (PWRI), Hiroshi Kisanuki, Chisato Konishi, Koichi Hayashi, Hideki Saito (OYO Corporation)	
12:10 -12:30	The Structural Pattern of Taper Wedge at Nankai Trough: Sandbox Model for Earthquake History	Fahrudin, Ahmad Syaqui Hidayatillah, Al Fauzi Hanifudin (Undip)		12:10 -12:30	Optimizing surface wave method for geotechnical site investigation	Chih-Ping Lin (National Chiao Tung University), Chun-Hung Lin (Nat'l Sun Yat-sen University)	

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Seismic Technologies 1 (11/13 13:30-15:10)		Andrzej Górszczyk (Institute of Geophysics, PAN), Masafumi Katou (JGI, Inc.)		Near Surface Geophysics 3 (11/13 13:30-15:10)		Tseedulam Khuut (MUST, Mongolia), Tatsunori Ikeda (Kyushu University)	
13:30-13:50	Surface wave analysis using active-source multi-channel seismic data in the Median Tectonic Line (MTL): Comparison of S-wave velocity along the MTL	Yohei Morifuji (Kyushu University, CRIEPI), Takeshi Tsuji, Tatsunori Ikeda (Kyushu University), Michiharu Ikeda (Shikoku Research Institute Inc), Naoki Nishizaka, Kozo Oonishi (Shikoku Electric Power Co. Inc)		13:30-13:50	Magnetometric and electrometric investigations in the noviodunum submerged archaeological site	Sorin Anghel (Institute for Marine Geology and Geoecology)	
13:50-14:10	A 3D Seismic Survey for Planning of Hyper Kamiokande Underground Cavern	Satoshi Hirooka (JX Nippon Exp. & Dev.), Kenji Horinokuchi (Mitsui Mineral Dev. Eng.), Shuji Kimura (Kamioka Mining & Smelting.), Soichi Tanaka, Toshifumi Matsuoka, Toru Takahashi (Fukada Geological Institute.), Masato Shiozawa, Shoei Nakayama, Hidekazu Tanaka (ICRR. Univ. of Tokyo.), Jiro Yamatomi (Univ. of Tokyo.)		13:50-14:10	Integrated geophysical survey results to detect buried ritual complex structures in eastern Mongolia	Tseedulam Khuut (MUST, Mongolia), Odbaatar Tserendorj, Bayarsaikhan Jamsranjav (NMM, Mongolia), Batsukh Khuut, Bayanmunkh Khuut (Magic Fingers LLC)	
14:10-14:30	Multi Azimuth Pore Pressure Prediction and Distribution using 5D Interpolated Data in South Sumatera Basin	Suherman (ITB, PT Pertamina), Wahyu Triyoso (ITB)		14:10-14:30	Exploration of buried temple site using resistivity method and geological structure survey of Penanggungan Mountain, East Java	Ratih Sukma Prabaningrum (Institut Teknologi Sepuluh Nopember), Dwandari Ralanarko (Himpunan Ahli Geofisika Indonesia), Wien Lestaristitut, Hafiz Rizald (Institut Teknologi Sepuluh Nopember)	
14:30-14:50	Optimization of seismic sparse data acquisition based on an interpolation algorithm - numerical data verification	D. H. Hien, T. Q. Minh, M. T. Lua, N. T. Tung (Vietnam Petroleum Institute), S. Jang (Korea Institute of Geoscience and Mineral Resources)		14:30-14:50	Groundwater exploration in volcanic morphology using geophysical schlumberger resistivity method, in Jeneponto Area, South Sulawesi Province.	Indra Arifianto, Kartika Palupi Savitri, Muhammad Rachmat Fadhil Priana, Agung Setianto (Universitas Gadjah Mada)	
14:50-15:10	The development of a seamless onshore/offshore seismic stratigraphic model of the Canning Basin, Northwest Shelf, Australia	Christopher Yule, James Daniell (James Cook University)		14:50-15:10	The monitoring of electrical resistivity change during liquefaction of soil	Motoharu Jinguuji (AIST)	
Seismic Technologies 2 (11/13 15:50-17:30)		Ehsan Jamali Hondori (JGI, Inc.), Shohei Minato (Delft University of Technology)		Geodetic Technologies and Borehole Geophysics (11/13 15:30-17:10)		Kazuya Ishitsuka (Hokkaido University), Hiroaki Yamamoto (Schlumberger K.K.)	
15:50-16:10	Seismic imaging of complex crustal structure by common reflection angle migration	Kazuya Shiraishi (JAMSTEC), Masako Robb, Karl Hosgood (Emerson), Yasuhiro Yamada (JAMSTEC)		15:50-16:10	InSAR-detected local ground deformation in potential area of phreatic eruption: Way forward to proactive monitoring for disaster risk mitigation	Tomokazu Kobayashi (Geospatial Information Authority of Japan)	
16:10-16:30	Velocity Building for Complex Subduction System through 2D Grid-based Tomography - A Case Study from the Nankai Trough	Masako Robb (Emerson E&P Software), Kazuya Shiraishi (JAMSTEC)		16:10-16:30	Study on ground displacement of Kozushima Island by SAR interferometry analysis	Wataru Uehara, Yoshiya Oda (Tokyo Metropolitan Univ.)	
16:30-16:50	Reflection mapping of oceanic thermohaline fine structures in the Kuroshio Current: Insights from automatic seismic velocity analysis	Chanmaly Chhun, Takeshi TSUJI (Kyushu University)		16:30-16:50	Surface displacement around the Kumamoto area using persistent scatterer interferometry	Kazuya Ishitsuka (Hokkaido Univ.)	
16:50-17:10	Feasibility study on the waveform analysis to the conventional wide-angle marine seismic survey data	Gou Fujie, Ayako Nakanishi, Takeshi Sato, Shuichi Kodaira, Seiichi Miura (JAMSTEC)		16:50-17:10	Demonstrating Seismic While Drilling for Successful Well Placement Offshore East Malaysia	Aqil Ahmed, F. Maula, E.H. Heng, S. Shamsuddin (Schlumberger), A.Q. Tan, N. Holleman (Sabah Shell Petroleum Company Ltd), B.S. Lee, H.V. Vader, R.R. Spiteri (Sarawak Shell Berhad)	
17:10-17:30	Crustal-scale depth imaging via joint FWI of OBS data and PSDM of MCS data - the eastern Nankai Trough seen in high resolution	Andrzej Górszczyk (Institute of Geophysics, PAS), Stephane Operto, Laure Schenini (Universite Cote d'Azur)					
Nov. 14, Room A				Nov. 14, Room C			
Seismic Technologies 3 (11/14 09:00-10:40)		Shohei Minato (Delft University of Technology), Kazuya Shiraishi (JAMSTEC)		Gravity / Magnetics (11/14 09:00-10:40)		Shinya Sakanaka (Akita University), Shigekazu Kusumoto (Toyama University)	
9:00-9:20	Uncertainty in Connected Reservoirs from Geostatistical Inversion Driven Probability Linking in Waterflood Environment	Sanjeev Rajput (BHGE), Ravi K. Pathak, Amin B Abd Mutalib, Aizuddin B. Khalid, Khairul Arifin B Dolah (PETRONAS, Malaysia)		9:00-9:20	Utilization of gravity data for figuring out both the hydrothermal alteration zone and the underground structure so that possible geothermal exploitation in the municipality of Isa, Japan	Carlos Pocasangre, Yasuhiro Fujimitsu, Jun Nishijim (Kyushu University)	
9:20-9:40	A Novel Method for Reliable Attribute Screening of Seismic Multi-Attribute: A Case Study at Jabung Block, South Sumatra Basin	Muhammad Fahmi Yahya Faizan (HAGI), Mohammad Risyad (PetroChina Int. Jabung, Ltd.), Widya Utama (Geophysical Engineering ITS)		9:20-9:40	Analysis and Interpretation of Gravity Data to delineate structural features in Eburru Geothermal Field of Kenya.	Justus. Maithya, Yasuhiro Fujimitsu (Kyushu University)	
9:40-10:00	Comparative Study of Seismic Impedance in Ray Parameter Domain: Case Study of Seismic Imaging & Seismic Inversion in Gas Cloud Zone	Edycakra Sinaga, Wahyu Triyoso, Madaniya Oktariena (Institut Teknologi Bandung)		9:40-10:00	Geological structures controlling the placement and geometry of heat sources within Menengai geothermal field, Kenya as evidenced by gravity study	Isaac Kanda (Graduate School of Engineering), Yasuhiro Fujimitsu (Faculty of Engineering, Kyushu)	
10:00-10:20	Utilizing FRM and joint PP & PS seismic inversion to detect the presence of hydrocarbon	Ratih Sukma Prabaningrum (INSTITUT TEKNOLOGI SEPULUH NOP), Firman Syaifuddin (HAGI), Hafidz Dezulfakar, Nova Linzai (INSTITUT TEKNOLOGI SEPULUH NOP)		10:00-10:20	Application of Gravity Method in Overpressure Detection	David Andrian, Felix Andrian (University of Indonesia), Syamsu Rosid PhD (University of Indonesia), Octria Adi Prasajo, Anshar Rahman (University of Indonesia)	
10:20-10:40	Characterization of hydrate and gas reservoirs off Sanriku area from high-resolution seismic velocity model	Kret Kakda, Takeshi Tsuji (Kyushu University), Osamu Takano (Japan Petroleum Exploration)		10:20-10:40	Identification of concealed Pb-Zn deposits from high-resolution aeromagnetic data of parts of lower Benue Trough, Nigeria-West Africa	Mukaila Abdullahi, Rahul Prajapati, Upendra K. Singh (IIT (ISM), Dhanbad, India)	
Seismic Technologies 4 (11/14 10:50-12:30)		Masafumi Katou (JGI, Inc.), Kazuya Shiraishi (JAMSTEC)		Safely/Sustainability/Environmental Applications (11/14 10:50-12:30)		Keisuke Inoue (NARO), Osamu Osawa (INPEX)	
10:50-11:10	Attenuation of internal multiples by iterative construction of virtual primaries	Jiahui Liu, Tianyue Hu (Peking University), Gengxin Peng, Yongfu Cui (Tarim Oilfield, PetroChina)		10:50-11:10	Revision of HSE evaluation standards of JOGMEC and the points to be confirmed for geophysical activities concerning HSE and social sustainability	Osamu Osawa, Jun Okazaki, Kenzo Masuta, Shinji Shoda (JOGMEC)	
11:10-11:30	Application of spherical MultiFocusing technology for multiple attenuation on irregular topography	Dingyue Chang, Tianyue Hu (Peking University), Cai Zhang (RIPED)		11:10-11:30	Safety distance determination of dynamite by ground vibration analysis using peak particle velocity approach at PNJ seismic survey, South Sumatera, Indonesia	Agung Adi Susanto, Ihsan Anandya Yunandra, Boko Nurdiyanto Suwardi, Alpius Dwi Guntara, Bambang Mujihardi (UTC, PT. Pertamina (Persero)), Insan Oktafirman, Rastra Wira Dharma (PT. Pertamina EP), Sigit Pamungkas (UTC, PT. Pertamina (Persero)), Ramses Hasoloan Napitupulu, Grace Stephani Titaley (PT. Pertamina EP)	
11:30-11:50	Seismic modelling and inversion of nonwelded interfaces using the boundary integral equation	Shohei Minato, Ranajit Ghose, Kees Wapenaar (Delft University of Technology)		11:30-11:50	Evolution of the excavation damaged zone around a modelled disposal pit: case study at the Horonobe Underground Research Laboratory, Japan	Kazuhei Aoyagi, Nobukatsu Miyara, Eiichi Ishii, Masashi Nakayama, Shun Kimura (Japan Atomic Energy Agency)	
11:50-12:10	Dispersive waves in a layered solid-fluid system	Alexey Stovas (NTNU Norway), Yuriy Roganov (Tetrale Ukraine), Vyacheslav Roganov (Glushkov Institute Ukraine)		11:50-12:10	Transition of near surface resistivity of tunnel wall during drift closure test	Yusuke Ozaki, Masayuki Ishibashi (JAEA), Tomoaki Matsushita, Kazuhiko Masumoto (Kajima Corp.), Takehiko Imasato (RIEST)	
12:10-12:30	Traveltime computation and OBN seismic record simulation for rugged seafloor with VTI medium	Zhiqi Wang, Qi Wang, Qingchun Li (Chang an University, China)		12:10-12:30	Magnetic susceptibility, morphological and magnetic mineral composition analysis on leachate sludge	Dini Fitriani, Kartika Hajar Kirana, Eleonora Agustine, Mia Uswatun Hasanah, Anggie Susilawati (Department of Geophysics, Unpad)	

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Nov. 14, Room A			
Geophysical challenges in the Middle-East area (11/14 13:30-15:30)		Ayato Kato (JOGMEC), Jun Matsushima (The University of Tokyo)	
13:30-13:50	Deblended-data reconstruction using a sparse inversion method with regularization term for further application of blended acquisition in the Middle-East area	Satoshi Ishikawa (Khalifa University, INPEX), Tomohide Ishiyama, Mohammed Ali (Khalifa University), Shotaro Nakayama, Gerrit Blacquiere (Delft University of Technology)	
13:50-14:10	2D AVO Analysis and Inversion in a Carbonate Reservoir in the Presence of a Tar Mat	Salem Al Hammami (ADNOC-PhD U. of Manchester), Youcef Bouzidi (Khalifa University)	
14:10-14:30	Seismic AVO Inversion for Optimal Reservoir Modeling and Field Development, Offshore Abu Dhabi, UAE	Hiroki Miyamoto, Toshiaki Shibasaki, Samir Bellah, Sami Al Jasmi (ADNOC Offshore)	
14:30-14:50	Characterization of small faults and fractures from 3D VSP data in a carbonate reservoir	Eric Takam Takougang, Mohammed Y. Ali, Youcef Bouzidi, Fateh Bouchaala, Aala A. I. Mohamed, Akmal A. Sultan (KUST- The Petroleum Institute)	
14:50-15:10	Potential of intrinsic and scattering attenuation for the investigation of a fractured reservoir	Fateh Bouchaala, Mohammed. Y Ali, Youcef Bouzidi (The Petroleum Institute), Jun Matsushima (The University of Tokyo), Eric. M T Takougang, Weining Liu, Aala. A.I Mohamed, Akmal. A Sultan (The Petroleum Institute)	
15:10-15:30	Monitoring of induced microseismicity in an onshore oilfield from Abu Dhabi, United Arab Emirates	Mohammed Ali (Khalifa University), Meng Li (Xi'an Shiyou University)	
Acquisition and Sensor Technologies (11/14 15:50-17:10)		Jun Matsushima (The University of Tokyo), Toru Ikegami (Schlumberger)	
15:50-16:10	The modern seismic survey in the context of multi-client data access: A case study from Sabah, Malaysia.	Mazin Farouki, Jo McArdle, Andy Bromley, Shinya Sakamoto (PGS)	
16:10-16:30	Area Extraction for Hydrothermal Deposits using Multi-Stage Seismic Survey System	Shutaro Saito, Eiichi Asakawa, Fumitoshi Murakami, Hitoshi Tsukahara, Kenji Tara, Sangkyun Lee, Masafumi Katou (J-MARES / JGI, Inc.)	
16:30-16:50	Lunar Active Seismic Profiler (LASP): Investigation of shallow regolith layer for resource exploration and base camp construction	Takeshi Tshuji (Kyushu University), Taichi Kawamura (NAOJ), Akito Araya (University of Tokyo), Yuichiro Nagata (Kyushu University), Yoshiaki Ishihara (JAXA) Kazunori Ogawa (Kobe University), Taizo Kobayashi (Ritsumeikan University), Satoshi Tanaka (JAXA), Takao Aizawa (Suncoch Consultants)	
16:50-17:10	Muon radiography in Exploration Geophysics	Taro Kusagaya (KGE), Kunihiro Morishima (Nagoya Univ.), Kouji Narita (Science Impact), Keiichi Suzuki (KGE), Toshiyuki Nakano, Mitsuhiro Nakamura (Nagoya Univ.)	

Poster Presentation Core time: 16:40-18:00 on 12th (Mon).

Display time: 12:00-18:00 on 12th (Mon), 9:00-18:00 on 13th (Tue), and 9:00-13:30 on 14th (Wed).

Geophysical application of Data science	
Evaluation of in-situ saturation condition using dynamic cone penetration tests	Hiroshi Nakazawa (NIED), Toshio Takagi (Fukken Co., Ltd.), Hisao Hayashi (Geo-X Consultants Co., Ltd.), Koichi Nagao (Sato Kogyo Co., Ltd.)
Determination of Moment Magnitude (Mwp) for Tsunami Early Warning Using Wave Signal P Broadband	Buha Simamora, Sigit Ariwibowo, Fikri Hiola, Kevin Wicaksono (Geophysics, STMG), Sugeng Priyadi (BMKG)
Monitoring Foam Propagation Using the Seismoelectric Method: Simulation Study	Ulugbek Djuraev, Shiferaw Regassa Jufar (UTP), Harry Mahardika (ITB), Ooi Phey Chee (Schlumberger)
Disaster Mitigation Application	
Estimation of the shallow velocity structure using surface wave method in the Kathmandu Valley, Nepal	Michiko Shigefuji (Kyushu University), Nobuo Takai · Subeg Bijukchhen (Hokkaido University), Chintan Timisina (DMG, Nepal), Takuho Mori (Kyushu University), Mukunda Bhattari (DMG, Nepal)
Investigating of a landslide slip-surface by electrical-resistivity survey	Kenji Kubota, Shiro Tanaka (CRIEPI)
Estimation of S-wave velocity structure around Fujikawa fault zone, Japan, from microtremor and earthquake records for seismic hazard assessment	Hiroaki Yamanaka, Kosuke Chimoto (Tokyo Inst. Tech.), Hiroe Miyake (Univ. Tokyo), Masahiro Korenaga, Seiji Tsuno (Railway Tech. Res. Inst.), Shigeki Senna (NIED)
Characteristics of earthquake ground motions and shallow S-wave velocity structures along a north-south line in the Yatsushiro Plain, western JAPAN	Masahiro Korenaga, Seiji Tsuno (Railway Technical Research Institute), Kosuke Chimoto, Hiroaki Yamanaka (Tokyo Institute of Technology), Nobuyuki Yamada (Kochi University)
Evaluation of site amplification factors in central area of Morioka City by microtremor array technique with a portable array-data acquisition system	Hidekazu Yamamoto, Anupap Wanasawan, Tsuyoshi Saito, Ryohei Many (Iwate University)
Spatial and Temporal b-Value Variable Analysis: Mapping Earthquake-Prone Area in Indonesian Triple Junction Zone	Andi Mardhotilla, Adelia Suryani, Muh. Iqbal Sulaiman (University of Pertamina)
Study on seismic risk evaluation method by microtremor H/V spectral ratio for the super soft ground area	Masayuki Yamada, Koji Hada, Kazuo Yoshida, Yoshinori Fujino, Yoshiya Hata (NEWJEC Inc.)

Nov. 14, Room C

Rock Physics / Interpretation (Case studies) (11/14 13:30-15:30)		Toshihiro Ike (JOGMEC), Koji Kashihara (JAPEX)	
13:30-13:50	Finite element modeling of coupled fluid-solid interaction at the pore scale of digital rock samples	Vishal Das, Tapan Mukerji, Gary Mavko (Stanford University)	
13:50-14:10	Hydraulic permeability of granitic bedrock estimated from resistivity and young's modulus	Souta Kawaguchi, Tadanori Goto (Kyoto University)	
14:10-14:30	Improved characterisation of carbonate reservoirs	Mark Sams (Ikon Science), Peter Kirkham (Twina Oil)	
14:30-14:50	A new technique for lithology and fluid content prediction from prestack data: An application to a carbonate reservoir.	Kamal Hami-Eddine, Pascal Klein (Emerson Paradigm), Loic Richard (Total), Bruno de Ribet, Maelle Grout, Martin Crookes (Emerson Paradigm)	
14:50-15:10	Fracture networks based on Seismic Attributes Applications: A case study of fractured basement in the Malay Basin	Annur Asma Sayidah Shamsuddin (Shamsuddin A.A.S), Nguyen Huy Ngoc (Ngoc N.H.), Suhailen Shahar (Shahar S.), Deva P. Ghosh (Ghosh D. P.)	
15:10-15:30	Interpretation of heliborne AGG, EM and magnetic data for geothermal exploration in the Musadake-Teshikaga area	Jurriaan Feijth, Jackie Hope (CGG Multiphysics), Atusi Ninomiya, Hiromasa Ishikawa, Atsushi Shirota (Sumiko Resources Expl. & Dev.), Takuji Mouri (JOGMEC), Gen Nakamoto (Fugro Japan)	
Unmanned and Airborne Geophysical Survey (11/14 15:50-17:10)		Motoharu Jinguuji (AIST), Shigeo Okuma (AIST)	
15:50-16:10	Integrated seismic imaging of the deep-towed streamer survey in the hydrothermal deposit area	Masafumi Katou, Shutaro Saito, Eiichi Asakawa (J-MARES/JGI, Inc.)	
16:10-16:30	Machine learning assisted data reconstruction from a uniformly under-sampled VCS survey	Ehsan Jamali Hondori, Masafumi Katou, Eiichi Asakawa (JGI Inc.)	
16:30-16:50	Lessons from interpretations of aeromagnetic anomalies of active volcanoes	Shigeo Okuma, Tadashi Nakatsuka (Geological Survey of Japan/AIST), Robert Supper (GBA), Carol Finn (USGS)	
16:50-17:10	Structural behaviour of the Tefedest terrane (Central Hoggar, Algeria), insight from airborne magnetic data and 3D magnetic inversion.	Massinissa Amara, Abderahmane Bendaoud (USTHB/ALGERIA), Toshiake Tsunogae (University of Tsukuba), Amrouche Moahmed (Schlumberger Tokyo), Gregory Dufrechou (Geosciences Toulouse), Mark Jessell (CET Western Australia), Mohamed Hamoudi, Hichem Boubekri (USTHB/ALGERIA)	

GPR Technologies

Electromagnetic Analysis of Multiple-Layered Dielectric Plate for Underground Modeling	Hirokazu Kobayashi (Osaka Institute of Technology), Takuma Watanabe (Fujitsu LTD), Shun-ichi Takaoka (National Taipei Univ. of Tech.)
Detection of target signatures in ground-penetrating radar images: A deep convolutional neural network approach	Kazuya Ishitsuka (Hokkaido Univ.), Shinichiro Iso (Waseda Univ.), Kyosuke Onishi (PWRI), Toshifumi Matsuoka (FGI)
Data processing for imaging pavement structure using ground-penetrating radar	Kyosuke Onishi, Takanori Ogahara (Public Works Res. Inst.)
Consideration of Oblique Incidence in Planar Interface Measurement with a Dipole Array Antenna of Directional Borehole Radar	Satoshi Ebihara, Shyuhei Kotani, Kengo Fujiwara (OECU)

DC / EM / NMR Technologies

Developing a SQUITEM system for the geothermal exploration in JOGMEC	Keita Yoshimatsu, Masatoshi Tsuzuki, Takuji Mori (JOGMEC), Hidehisa Watanabe, Hidehiro Ishikawa, Tomohiro Yamazaki (MINDECO)
Resistivity and Induced Polarization characteristics of sediments from modern submarine hydrothermal system in Okinawa Trough, Japan (CHIKYU CK16-01 cruise)	Shogo Komori (Geological Survey of Japan, AIST), Yuka Masaki (Cosmos Shoji Co.), Wataru Tanikawa, Junji Torimoto (JAMSTEC), Yusuke Ohta (Kyoto University), Masato Makio (Kyushu University), Lena Maeda (JAMSTEC), Junichiro Ishibashi (Kyushu University), Tatsuo Nozaki (JAMSTEC), Osamu Tadai (Marine Works Japan LTD.), Hidenori Kumagai (JAMSTEC), CK16-01 onboard members
Development of the shallow resistivity survey system using capacitively coupled cylinder electrodes	Chisato Konishi, Yoshihiro Yamashita, Koichi Hayashi (OYO Corporation), Douglas Groom, Dennis Wilkison (Geometrics)
Development of multi-purpose electromagnetic survey instruments	Takafumi Kasaya (JAMSTEC), Tada-nori Goto (Kyoto Univ.), Hisanori Iwamoto (JAMSTEC), Yoshifumi Kawada (Tohoku Univ.)
Quantitative estimation of effective hydraulic permeability of fractured rock masses using DFN realizations constrained by electrical resistivity	Jin Wu, Tada-nori Goto (Kyoto University)
Reliability evaluation of 2-D resistivity structure derived by magnetotelluric survey using Markov Chain Monte-Carlo method	Hisatoshi Koji, Tada-nori Goto (Kyoto University)

The 13th SEGJ International Symposium / Technical Program

Invited talk

Highlight talk

Poster Presentation Core time: 16:40-18:00 on 12th (Mon).

Display time: 12:00-18:00 on 12th (Mon), 9:00-18:00 on 13th (Tue), and 9:00-13:30 on 14th (Wed).

Disaster Mitigation Application	
Determination of shallow S-wave velocity profile using microtremor horizontal-to-vertical spectral ratio and surface S-wave velocity with assumption of linear velocity increase.	Andi Muhamad Pramadi, Hiroaki Yamanaka, Kosuke Chimoto (Tokyo Institute of Technology)
Deep borehole seismic observation in the thick and folding sedimentary rock	Tomiichi Uetake, Akihiro Shimmura, Masatoshi Fujioka, Kazuhito Hikima (TEPCO Holdings)
Checkerboard resolution test for natural earthquake tomography of volcanic islands in Hachijojima	Kentaro Omori, Yoshiya Oda (Tokyo Metropolitan Univ.)
Evaluation of site amplification factors using seismic observation and miniature array analysis of microtremors for damage estimations in Zushi City	Kohei Kosaka, Yoshiya Oda (Tokyo Metropolitan Univ.)
Study on the estimation of ground structure of Yokohama City using microtremor miniature array observation	He Ma, Takahisa Enomoto (Kanagawa University), Shigeki Senna (NIED)
Estimation of shallow soil structure by microtremor miniature array observation method	He Ma, Takahisa Enomoto, Tetsushi Inubushi (Kanagawa University), Shigeki Senna (NIED)
Seismic Technologies	
Integrated quality control and archives management method for seismic data processing	Shuhua Hu, Xiaowei Wang, Wenqing Liu (NWGI, PetroChina)
Seismic interferometry imaging of subsurface structure in the southernmost area of South Japanese Alps	Daima Hasegawa, Toshiki Watanabe (Nagoya University), Tanio Ito (ADEP), Kenichi Kano (Shizuoka University), Susumu Abe (JAPEX, Co. Ltd), Akira Fujiwara (JOGMEC), Yoshinori Kouchi (Geosys, Inc.)
The seismic attributes properties of incoming oceanic crust along Nankai Trough using two multi-channel seismic reflection survey data	Mikiya Yamashita, Seiichi Miura (JAMSTEC), Jin-Oh Park (University of Tokyo), Ayako Nakanishi, Shuichi Kodaira (JAMSTEC)
Improved elastic wave equations with application to stable wavefield simulating in complex TTI media	Shuhua Hu, Wenqing Liu, Xiaowei Wang (NWGI, PetroChina)
Geophysical challenges in the Middle-East area	
Experimental investigation of broadband frequency response of fractures in a carbonate core by visualizing seismic wave propagation	Jun Matsushima (Univ. of Tokyo), Mohammed Y. Ali, Fateh Bouchaala (The Petroleum Institute), Kenji Takubo, Takahide Hatahori (Shimadzu corporation), Bo Wang, Junji Takatsubo (Tsukuba Technology Co., Ltd)
Acquisition and Sensor Technologies	
Development of Digital AC Resistivity Meter for Groundwater Survey	Ronaldo Talapessy, Tomoaki Ikegami (Kumamoto University), Hiroaki Yoshida (Taihei Sougou Plan, Co.Ltd.)
Rock Physics / Interpretation (Case studies)	
An Innovative method of Integrating Geo-cellular and Dynamical Models for Water Flood Optimization	Sanjeev Rajput, Flavia Kandau (BHGE), Michael Chin, Siti Amirah Ismail (PETRONAS Carigali), Naveen Nathesan, Sam Yet (BHGE), Aizuddin B. Khalid, Khairul Arifin B Dolah (PETRONAS Carigali)
Measurement of P-wave velocity and electrical resistivity in the tunnel I seepage sections	Kenji Okazaki, Shusaku Yamazaki, Toshiyuki Kurahashi (CERI, PWRI), Tomio Inazaki (PWRI), Hiroumi Niwa (Fujita), Mutsuo Takeuchi, Satoshi Izumotani (Waseda university)
Reproducing electrical conductivity characteristics of rock samples obtained from seafloor hydrothermal area with new rock physics model	Yusuke Ohta, Tada-nori Goto, Katsuaki Koike, Koki Kashiwaya, Weiren Lin (Kyoto University), Osamu Tada (Marine Works Japan), Takafumi Kasaya, Toshiya Kanamatsu, Hideaki Machiyama (JAMSTEC)
Geomechanics and rock physics modeling approach to interpreting time-lapse seismic response during CO ₂ injection in Tomakomai.	Akihisa Ashida, Koji Kashihara (JAPEX), Kimiaki Ochi (JGI), Yutaka Tanaka (JCCS)
Characterization of low resistivity reservoir with artificial neural network seismic inversion and pressure data: Case study from Meruap Field in South Sumatra basin, Indonesia	Rahadian Anggit Wirawan, Eddy Purnomo, Bily Anggraini, Hadi Supriono, Muhammad Himawan Prakoso, Hilman Mardiyah, Bondan Ranukusumo (Samudra Energy LLC)

Near Surface Geophysics	
S-wave velocity structure using microtremor array measurements: a case study at Huffman Dam, Dayton, OH, US	Yoshiya Oda (Tokyo Metropolitan Univ.), Ernest C. Hauser, Shelley Gilliland (Wright State Univ.)
FEM Numerical Simulation of Electrical Flow in Cylindrical Soft Clay Core Samples for Construction of a Resistivity Correction Factor Chart	Kanidtha Prarom, Pham Huy Giao, Kushan Sandunil (Asian Institute of Technology)
Shallow seismic reflection survey results of Mogod fault, central Mongolia	Nomin-Erdene E, Batsaikhan Ts (Institute of Astronomy and Geophysics, Mongolian Academy of Sciences), Tseedulam Kh (Mongolian University), Battuvshin Ganbold (Institute of Astronomy and Geophysics, Mongolian Academy of Sciences)
Application of 3-D inversion of Magnetic Data in Gold Mines, Namuno Area, Northern Mozambique	Macuacua Carlos C. , Toru Mogi, Kazuya Ishitsuka (Hokkaido university), Mitsuru Utsugi (Kyoto University),
Geodetic Technologies and Borehole Geophysics	
Palaeo and In-Situ Stress Analysis of the Perth Basin: Implications for subsurface fluid flow.	Alastair Stark, Dr. Rosalind King (University of Adelaide), Dr. Rowan Hansbery, Dr. Khalid Amrouch (Australian School of Petroleum)
Laminated Shaly Sand Analysis and 3D Saturation Height Modelling In Electrical Anisotropic Reservoirs	Brian Lee, Diego Vasquez (Emerson Automation Solutions)
Gravity / Magnetics	
Comprehensive software system "AMSS3" of aeromagnetic data processing and quantitative 3D interpretation, and its further evolution to an Expert's system "AMXS" of fully organized workstation	Tadashi Nakatsuka, Shigeo Okuma (Geological Survey of Japan/AIST)
Three Dimensional Geophysical Inversion of Gravity Data for Subsurface Structural Mapping of the the Western North-American Plate	Mohammad Shehata (Department of Earth Resources), Hideki Mizunaga (Department of Geology)
Identification of Active Fault Using Analysis Of Derivatives With Vertical Second Based On Gravity Anomaly Data (Case Study: Matano Fault In Sulawesi, Indonesia)	Reza Widyarta, Eka Yulianto, Muhamad Maulana, Farhan Syar'i, Mufidatul Khoiroh (Universitas Indonesia)
Results of gravity survey of the Ulaanbaatar basin, Mongolia	Buyantogtokh Bazar (IAG, MAS, Mongolia), Turutanov E.Kh (IEC, RAS, Russia), Arvisbaatar N (NUM, Mongolia), Tengis B (IAG, MAS, Mongolia)
Safely / Sustainability / Environmental Applications	
An environment-friendly MCS survey by using underwater speakers in Tokyo Bay	Tetsuro Tsuru (Kaiyodai), Jin-Oh Park (AORI), Mamoru Takanashi (JOGMEC), Kohsaku Arai, Takahiko Inoue (AIST), Seishiro Furuyama, Kazuo Amakasu (Kaiyodai), Kazuhiro Takao (The University of Tokyo), Mayu Ogawa, Shio Shimizu (Kaiyodai)
Hydrogeology-geophysical evaluation of the Sainshand basin in the Eastern Gobi region of Mongolia	Lkhagvadorj Davaa (MUST, Mongolia), Khukhuu Puntsag (MMHI, Mongolia)
Evaluation of the metal-enriched zones in valley landfills using induced polarization method	Kazuhiro Hidari, Eisuke Kusuyama, Kazuo Kamura (Waseda Univ)
Three-dimensional resistivity monitoring of a water-leaking paddy field damaged by the 2016 Kumamoto earthquake	Keisuke Inoue, Kosuke Wakasugi, Yasuyuki Wakiyama, Ryosuke Nomiya (NARO), Seiji Tanaka (Kumamoto Prefecture)
Unmanned and Airborne Geophysical Survey	
Tin Tarabine and its surrounding areas (Central Hoggar), a key region for lithological and structural investigation by airborne magnetic data and gamma ray spectrometry.	Kawther Araibia, Massinissa Amara, Kamel Amri, Abderrahmane Bendaoud, Chakib Harouz (USTHB)