

Muneyoshi NUMADA

Name:	Muneyoshi Numada 
Birth day:	1977.4.26
Affiliation:	Associate Professor/ Deputy Director of Disaster Management Training Center, Institute of Industrial Science, the University of Tokyo
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Brief Career:	<p>2009- Doctor Engineering from the University of Tokyo (Ph.D.), Research title: Key parameters controlling movements and deformations of landslide masses in earthquakes and discussions for coping with landslide disasters.</p> <p>2009- Assistant Professor, the University of Tokyo</p> <p>2014- Lecturer, the University of Tokyo</p> <p>2018- Associate Professor, the University of Tokyo</p> <p>2016-2017 Science Council of Japan, Science Council of Japan Affiliate Member</p> <p>2018- Lecturer for Risk management skill improvement training for flood damage, Ministry of Land, Infrastructure, Transport and Tourism</p> <p>2019- Lecturer for General Adviser for Disaster Management, Ministry of Internal Affairs and Communications</p> <p>2021- Deputy Director of Disaster Management Training Center, Institute of Industrial Science, the University of Tokyo</p> <p>2022- Visiting Researcher, National Research Institute for Earth Science and Disaster Resilience</p>
Academic Group	Japan Society of Civil Engineers (JSCE) Architectural Institute of Japan (AIJ) Japan Association for Earthquake Engineering (JAEE) Institute of Social Society of Science (ISSS) Japan Society for Disaster Information Studies (JASDIS) Japan Society for Natural Disaster Science (JSNDS)

- **Brief activities:**

- **Education:**

I obtained the PhD. (engineering) Degree from the department of the civil engineering after graduating from the master course of the civil engineering of the University of Tokyo in March 2003. The PhD. thesis was "Key parameters controlling movements and deformations of landslide masses in earthquakes and discussions for coping with landslide disasters" that developed a numerical simulation method for large deformation analysis of soil. Since then, from April 2009, I was engaged in research on urban disaster prevention as an assistant professor at Institute of Industrial Science, the University of Tokyo. I was engaged in research on disaster prevention process engineering as a lecturer at the Interfaculty Initiative in Information Studies, the University of Tokyo from October, 2014. Then from September 2018, I am engaged in the research as an associate Professor, Interfaculty Initiative in Information Studies/ Institute of Industrial Science, the University of Tokyo.

- **Research:**

My research is disaster management process engineering. The process approach is very important to understand the comprehensive/ diverse disaster activities as for the standard operation procedure of disaster management. The 48 kinds of 500 disaster management processes which were analyzed the whole process of disaster response are defined by the field research of past responses. My disaster response process modeled the disaster response which could be evaluated complicated and quantitatively, realizing "disaster response simulation". In collaboration with the real-time tsunami simulation using super-computer at Tohoku University, integration of research and development from hazard to disaster response were achieved. The achievement on complicated and diverse disaster response model to build up the framework of disaster management has greatly contributed academically.

The developed system were used to real disaster responses during the disaster management Headquarters in Asakura City of Fukuoka prefecture, in Kurashiki city of Okayama prefecture and municipalities in Kumamoto prefecture. The system is expected to expand to about 1,700 municipalities in the future. Internationally, my disaster response process will be developed as an international SOP (Standard Operation Procedure) in collaboration with the Indonesian National Disaster Management Agency, Bangladesh Disaster Prevention Bureau, Myanmar Disaster Management Bureau, University of Hawaii etc.

- **DMTC:**

In October 2018, I build "Disaster Management Training Center (DMTC)" at the University of Tokyo to train the process method. DMTC will open to the officially from April 2019. All stakeholders such as government and local municipality staffs, business sectors, NGO/NPOs, community people and other concerning levels can study the practical and comprehensive knowledge by DMTC.

● **Recent award:**

- Commendation of The Foundation for the Promotion of Industrial Science, Establishment and operation of a Disaster Management Training Center, 2022/11/10.
- The 8th Japan Resilience Award Excellence Award of General Incorporated Association Resilience Japan Promotion Council, Social Welfare Corporation Tokiwakai Electronic systemization of disaster manuals by disaster response process management system "BOSS", 2022/4/27.
- The 8th Japan Resilience Award Excellence Award of General Incorporated Association Resilience Japan Promotion Council, Kisarazu City Disaster response process management system (BOSS system), 2022/4/27.
- The 23rd Annual Conference of the Japan Society for Disaster Information, Excellent Presentation Award, Fundamental analysis of the impact of the new coronavirus on the restaurant industry, 2021/11/27.
- Japan Association for Earthquake Engineering, Excellent Presentation Award, Comparison of response behavior using the disaster response process management system BOSS and the manual as a case study of evacuation center management during the epidemic of the new coronavirus, 2020/12/2.
- Graduate School of Interdisciplinary Information Studies Excellent Master's Thesis, Detection of building damage after natural disasters using aerial images and construction of a method for sharing damage information, 2021/1/29.
- Japan Society for Natural Disaster Science 39th Academic Lecture Presentation Excellence Award, Interpretation of building damage from aerial photographs using deep learning and sharing of damage information, 2021/3/19.
- Best Young Research Award USMCA 2019, The topic of the research is "A feasibility study on the scaling of operational mode shapes of buildings using a shaker", 2019/12/10.
- 11th Excellent Policy of National Governors Association, Construction and operation of disaster response process management system (BOSS), 2018/11/28.
- Excellent Presentation Award for Save Life, Save Our Future of the 8th Annual KIN (Kellogg Innovation Network) ASEAN Forum 2017, Research on systematization of disaster response, 2017/12/6.
- For the generous support to the Disaster Management in Jogjakarta of Indonesia Royal Silk Foundation, Research on development of disaster response, 2017/12/7.
- 2016 Japan Society for Earthquake Engineering Annual Conference Best Presentation Award, Nishihara village disaster response and lessons learned from the 2016 Kumamoto earthquake, 2016/9/27.
- Dispatch of young researchers to the 3rd International Urban Disaster Prevention Conference, The role of mass media during disaster from experiences of the 2011 Great East Japan earthquake, 2014/9/28.

- **Recent Research project:**

2022-

- Ministry of digital agency, Survey and research on the actual situation of disaster prevention work in local governments
- Investigative research on the actual situation of disaster prevention work in local governments
- Ministry of Health, Labor and Welfare Health, Labor and Welfare Administration Promotion Research Project Expenses Subsidy (Health Safety and Crisis Management Measures Comprehensive Research Project) Research that contributes to the establishment of public health risk assessment and intelligence functions using an all-hazards approach
- Mie Prefecture Research on building a process management system for disaster response
- Kisarazu City Outsourced operation and management of disaster response process management system
- A Study on Accelerating Housing Damage Accreditation Investigations
- Development of evaluation indices for securing power supply during disasters aiming for highly effective BCP
- Research on power supply security and information transmission/reception during disasters

2021-

- Research that contributes to the establishment of public health risk assessment and intelligence functions based on an all-hazards approach
- Saitama prefecture disaster response process management system introduction work
- Kisarazu City Outsourced the introduction of a disaster response process management system
- Study on identification of design seismic ground motion based on analysis results of seismic observation records considering ground amplification characteristics and structural damage
- Research on power supply security and information transmission/reception during disasters
- Research on the establishment and operation of a training center for disaster countermeasures

2020-

- Analysis of seismic motion observation records and construction of ground-building interaction model
- Construction of a disaster prevention process for the preparation of the Okayama City Health and Medical Relief Activity Manual (measures against infectious diseases)
- Kawasaki City Outsourced work to introduce a disaster response process management system
- 2020 University of Tokyo GAP Fund Program (7th term) Promoting the introduction of the disaster response process management system BOSS
- Operation of a disaster response training center to respond to multiple hazards
- Construction of effective disaster response business processes considering multiple hazards such as earthquakes, wind and flood damage, and new coronavirus infections
- Kobe City Disaster response process management system introduction work
- Kisarazu City Outsourced the introduction of a disaster response process

management system

- Study on identification of design seismic ground motion based on analysis results of seismic observation records
- Implementation of Tanohata Village disaster response process management system BOSS
- Disaster prevention and business continuity in companies
- Revision of the Tanohata Village Regional Disaster Prevention Plan and introduction of a disaster response process management system

● **Recent papers:**

- Numada Muneyoshi: Six viewpoints for realizing effective disaster response in the new coronavirus disaster, *City planning*, 2021.
- Nami Tanaka and Numada Muneyoshi: Construction of a disaster response work flow for each organization based on the analysis of issues related to pets in the disaster response verification report -Case study of Kawasaki city-, *Journal of Social Safety Science*, 2021.
- Numada Muneyoshi: Development of Matching Modeling for Human Resource Allocation of Shelter Management by the Set Theory, *Journal of Disaster Research*, 2021.
- Yasui Arisa, Numada Muneyoshi: A Report of the Questionnaire Survey on Awareness of COVID-19 and Shelters, *Journal of Disaster Research*, 2021.
- Masashi Inoue, Numada Muneyoshi, Kimiro Meguro: Examination of a Prediction Formula for Personnel Input into Evacuation Center Management by Local Government Staff and Support Staff Based on the Results of the Kumamoto Earthquake, *Journal of Japan Society for Natural Disaster Science 40(特別号)*, 2021.
- Arisa Yasui · Numada Muneyoshi: Comparison of response behavior using the disaster response process management system BOSS and manual evacuation shelter construction as a case example, *Journal of Japan Society of Civil Engineers F6 (Safety Issues)*, 2021.
- Masashi Inoue, Numada Muneyoshi: Analysis of disaster response operations based on a survey of staff inputs ~A case study of Tsuruoka City's response to the 2019 Yamagata-oki earthquake~, *Journal of Japan Society of Civil Engineers F6 (Safety Issues)*, 2021.
- MS Hossain, K Chaitanya, Y Bhattacharya, M Numada, ASMM Kamal, K Meguro: Integration of smart watch and geographic information system (GIS) to identify post-earthquake critical rescue area part. II. Analytical evaluation of the system, *Progress in Disaster Science*, 2021.
- MS Hossain, CK Gadagamma, Y Bhattacharya, M Numada, N Morimura, K Meguro: Integration of smart watch and geographic information system (gis) to identify post-earthquake critical rescue area part. i. development of the system, *Progress in Disaster Science*, 2020.
- Masashi Inoue, Junya Fukuoka, Numada Muneyoshi, Kimiro Meguro: Development of a simulation method for optimizing personnel allocation in local government disaster response, *Journal of Social Safety Science*, 2020.
- Numada Muneyoshi, Jun Bando, Shintaro Nakano: Consideration for establishment of effective support and assistance system in the initial stage of disaster, *Journal of Social Safety Science*, 2020.
- Arisa Yasui, Muneyoshi Numada, Makoto Bando, Shintaro Nakano, Chaitanya Krishna: A Study on the Current Situation of Prearranged Shelter Management in

Japan for Making a Standard Operation Procedure, *International Journal of Environmental Research and Public Health*, 2020.

- Numada Muneyoshi: Six viewpoints for realizing effective disaster response in the new coronavirus disaster, *City Planning Institute of Japan City Planning*, 2020.
- MS Hossain, K Chaitanya, Y Bhattacharya, M Numada, ASMM Kamal, K Meguro: Integration of smart watch and geographic information system (GIS) to identify post-earthquake critical rescue area part. II. Analytical evaluation of the system, *Progress in Disaster Science*, 2020.
- T. Naing, S. Thinzar, M. Numada, K. Yu, K. Meguro: Acquisition of Ground Information in Downtown Yangon for Bosai Operation Support System, *J. Disaster Res.*, 2019.
- May Myat Mon, Tun Naing, Muneyoshi Numada, Khin Than Yu, Kimiro Meguro, and Kyaw Zin Latt: Analysis of Disaster Response During Landslide Disaster in Hakha, Chin State of Myanmar, *Journal of Disaster Research*, 2018.
- Rena Kikuchi, Muneyoshi Numada, May Myat Mon, Tun Naing, Khin Than Yu, and Kimiro Meguro: A Comparison of Disaster Management Plans for Both Japan and Myanmar, *Journal of Disaster Research*, 2018.
- Rena Kikuchi, Muneyoshi Numada, May Myat Mon, Tun Naing, Khin Than Yu, and Kimiro Meguro: A Comparison of Disaster Management Plans for Both Japan and Myanmar, *Journal of Disaster Research*, 2017.
- May Myat Mon, Tun Naing, Muneyoshi Numada, Khin Than Yu, Kimiro Meguro, and Kyaw Zin Latt: Analysis of Disaster Response During Landslide Disaster in Hakha, Chin State of Myanmar, *Journal of Disaster Research*, 2017.
- Masashi Inoue, Numada Muneyoshi, Kimiro Meguro: Building a framework for disaster response operations -Based on analysis results of disaster response operations for the 2011 Great East Japan Earthquake, 2015 Kanto and Tohoku heavy rains, and the 2016 Kumamoto earthquake-, *Journal of Japan Society of Civil Engineers A1 (Structural and Earthquake Engineering)*, 2017.
- Shanthanu Rajasekharan, Muneyoshi Numada, Kimiro Meguro: Simplified Numerical Model for Seismic Collapse of RC Frame Structures Collapse Analysis, 16th, *World Conference on Earthquake Engineering*, 2016.
- Masashi Inoue, Muneyoshi Numada, Kimiro Meguro: Development of the Comprehensive Disaster Risk Management Matrix for Effective Measure, 16th, *World Conference on Earthquake Engineering*, 2016.
- Muneyoshi Numada, Kimiro Meguro: Development of the knowledge-based disaster management system "BOSS" for Japanese standard system, 16th, *World Conference on Earthquake Engineering*, 2016.
- Satoshi Takatsu, Muneyoshi Numada, Kimiro Meguro: Knowledge based IT evacuation facility management system COCOA, 16th, *World Conference on Earthquake Engineering*, 2016.
- Muneyoshi Numada, Satoshi Takatsu, Yasuhide Yamauchi, Kimiro Meguro and Tetsuo Ito: Verification of Information Sharing System on Shelter, COCOA, at Comprehensive Disaster Drill in Ishinomaki City, *Journal of Disaster Research*, 2016.
- Saleem M. Umair, Muneyoshi Numada, M.N.Amin and Kimiro Meguro: Seismic Response of PP-band and FRP Retrofitted House Models under Shake Table Testing, *Journal of Construction and Building Material*, UK (ISI indexed impact factor = 2.296), 2015.
- Saleem M. Umair, Muneyoshi Numada, M.N.Amin and Kimiro Meguro: Shake Table Tests on FRP retrofitted masonry building models, *ASCE journal of Composites for Construction*, USA (ISI indexed impact factor = 2.483), 2015.
- Saleem M. Umair, Muneyoshi Numada, M.N.Amin and Kimiro Meguro: Fiber Reinforced Polymer and Polypropylene Composite Retrofitting Technique for

Masonry Structures, Journal of Polymers (ISI indexed impact factor = 3.681), 2015.

■ **Recent general lectures for government and municipalities and citizens (FY 2021-2019)**

- Ministry of Health, Labor and Welfare Headquarters Operation Training Evaluator, September 21, 2021.
- Tokushima Prefecture Disaster Management General Support Staff Training and Skill Maintenance Training March 14 (Mon) to March 22 (Tue), 2022.
- Kumamoto Prefecture Disaster Response Process Management System BOSS Municipal Operation Training, March 15-17, 2022.
- Tokushima Prefecture Training for disaster management support staff held online throughout the year.
- Saitama Prefecture BOSS training, January 17, 2022.
- Hyogo Prefecture Wide Area Disaster Prevention Center Hyogo Disaster Prevention Leader Skill Up Training, December 12, 2021.
- Minamiizu Town, Instructor of "Minamiizu Town Disaster Prevention Committee Training" and "BOSS System Training", Lecturer of "Minamiizu Town Disaster Prevention Committee Training" and "BOSS System Training", Nov 28, 2021.
- Ashiya City Urban Construction Department Disaster Prevention and Safety Section Regional Disaster Prevention Section, Ashiya City Disaster Prevention Training Course, Crisis Management and Timeline in Local Voluntary Disaster Prevention Organizations, 2021/11/13.
- Ministry of Land, Infrastructure, Transport and Tourism, Land, Infrastructure, Transport and Tourism University, 2021 Special Course Risk Management Ability Improvement Training for Flood Damage (web), Disaster Response Practice, 11 Nov 2021.
- Nine prefectures and cities earthquake disaster prevention and crisis management countermeasures subcommittee Disaster prevention human resource development training, Chiba City Hall, November 8, 2021.
- Special elderly nursing home Tokiwa-en, training using BOSS, October 29, 2021.
- Kisarazu City, Debriefing session on creating a disaster response manual and registering it to the BOSS system, Lecturer, October 20, 2021.
- General Affairs Planning Office, Tajima Prefectural Citizens Bureau, Hyogo Prefecture, 2021 Tajima Area Hyogo Disaster Prevention Leader Lecture', Crisis Management and Timelines in Local Voluntary Disaster Prevention Organizations", September 5, 2021.
- "Earthquake Countermeasures Technology Exhibition" Osaka Executive Committee, 8th "Earthquake Countermeasures Technology Exhibition" Osaka, University of Tokyo's Disaster Response Training Center (DMTC) Established ~Strengthening self-help/mutual assistance and cooperation with public assistance~, 2021 August 19th.
- Kobe City Hall, Disaster response process management system BOSS operation training, Business continuity plan in disaster response, issues related to support reception", June 24, 2021.
- Fire and Disaster Management Agency Civil Protection and Disaster Prevention Department Disaster Prevention Division Disaster Prevention Coordinator, Training for disaster management general supporters, Ministry of Internal Affairs and Communications, Overview of disaster response, June 1, 2021.
- Lecture Technology development workshop at the international symposium "Utilization of advanced technology by disaster first responders under huge

disasters", Kwansei Gakuin University Intelligent Blockchain + Innovation Research Center, March 22, 2022.

- Lecture Tokyo Shibuya Rotary Club, 842th Regular Meeting, Basic Concepts for Large-Scale Disaster Countermeasures, February 14, 2022.
- Lecture "Earthquake Countermeasure Technology Exhibition" Yokohama Executive Committee, To learn is to prepare. ~Opening of the University of Tokyo Disaster Management Training Center (DMTC)~, February 3, 2022.
- Lectures Executive Committee for Disaster Prevention Promotion National Conference (Cabinet Office, Disaster Prevention Promotion Council, Disaster Prevention Promotion National Conference), National Conference for Disaster Prevention Promotion 2021 (Nickname: Bosai Kokutai 2021 - From Iwate Kamaishi), Improving Japan's disaster response capabilities Proposal ~The University of Tokyo Disaster Management Training Center (DMTC)~, 6 November 2021.
- Lecture 17th World Conference on Earthquake Engineering (17WCEE) Organizing Committee, 17th World Conference on Earthquake Engineering (17WCEE), DMTC (Disaster Management Training Center), the University of Tokyo, September 28, 2021.
- Lecture: Disaster Prevention Log Executive Committee, Disaster Prevention and Mitigation Online Seminar 2021, Establishment of the University of Tokyo's Disaster Response Training Center (DMTC) ~Strengthening self-help/mutual assistance and collaboration with public assistance~, September 6, 2021.
- Lecture: Institute of Industrial Science, Special Symposium Challenges to disaster prevention and mitigation, disasters that are becoming more serious - Proposals from universities -, Challenges to disaster countermeasures: Developing human resources who can think of and implement optimal solutions - Starting the DMTC, a training center for disaster countermeasures -, June 11, 2021.
- Lecture QWS Innovation Council Urban Resilience Working Group: Conception of a disaster communication hub as a 15min-neighborhood function, 1st Disaster Countermeasures Initiative, July 2, 2021.
- Building Resilience during the COVID-19 Crisis Session 2 "Managing Typhoon Risk: Lessons from Countries", Muneyoshi NUMADA, World Bank Seminar, World Bank, September 26, 2020, Online.
- "Regarding the significance, necessity, and roles of liaison work," Muneyoshi NUMADA, 2020 Tottori Prefectural Crisis Management Bureau, February 12, 2021. day, online.
- "Crisis Management and Timelines in Local Voluntary Disaster Prevention Organizations", Muneyoshi NUMADA, Hyogo Disaster Prevention Leader Course, Hyogo Disaster Prevention Center, December 19, 2020, Hyogo Prefectural Disaster Prevention Center.
- Basic Approach to Disaster Countermeasures, Muneyoshi NUMADA, Tokushu Tokai Paper Disaster Prevention Workshop, Tokushu Tokai Paper Co., Ltd., December 18, 2020, Online.
- Basics of COVID-19 infection control, Muneyoshi NUMADA, Omuta City Tourism Association, Encouragement Meeting, June 1, 2021.
- Approach from the disaster management process and development of the BOSS (Business Operation Support System) for the comprehensive disaster management. ICHARM R&D Seminar, PWRI ICHARM, March 25, 2021, Online.
- "Crisis Management and Timelines in Local Voluntary Disaster Prevention Organizations", Muneyoshi NUMADA, Ashiya City Disaster Prevention Officer Training Course, Ashiya City Hall, February 22, 2021, Ashiya City Hall.
- "DIY Disaster Countermeasures -What Can I Do?-", Muneyoshi NUMADA, Exhibition at Science Agora 2020 (interactive symposium), Japan Science and Technology

Agency, February 12, 2021, Online.

- Overview of disaster response, Muneyoshi NUMADA, 2nd training for disaster management general supporters, Ministry of Internal Affairs and Communications, December 19, 2020, online.
- "Overview of Disaster Response Considered from Disaster Response Business Process and Research and Development of Disaster Response Process Management System BOSS", Muneyoshi NUMADA, Tokyo City University-Institute of Industrial Science Academic Collaboration Symposium (Main Theme: "Urban Disaster Prevention and Flood Damage"), Tokyo City University, December 17, 2020, Tokyo City University.
- Infectious disease prevention measures and disaster countermeasures branch operations in the corona wreck, Muneyoshi NUMADA, Disaster prevention seminar at the Tokyo National Highway Office, Ministry of Land, Infrastructure, Transport and Tourism Tokyo National Highway Office, December 1, 2020, online.
- Infectious disease prevention measures and disaster countermeasures branch operations in the corona wreck, Muneyoshi NUMADA, Disaster prevention seminar at the Tokyo National Highway Office, Ministry of Land, Infrastructure, Transport and Tourism Tokyo National Highway Office, December 1, 2020, online.
- "Crisis Management and Timelines in Local Voluntary Disaster Prevention Organizations", Muneyoshi NUMADA, Hyogo Disaster Prevention Leader Lecture, Hyogo Wide Area Disaster Prevention Center, November 15, 2020, Nishi-Harima Prefectural Citizen's Bureau Nishi-Harima General Government Building.
- "Crisis Management and Timeline in Local Voluntary Disaster Prevention Organizations", Muneyoshi NUMADA, Hyogo Disaster Prevention Leader Course, Hyogo Wide Area Disaster Prevention Center, November 15, 2020, Awaji Prefectural Citizens Bureau Sumoto General Government Building.
- "The Realities and Issues of Initial Responses from the Example of Disaster Response in Local Governments", Muneyoshi NUMADA, Disaster Prevention Seminar, Tokyo National Highway Office, February 6, 2020, Tokyo National Highway Office.
- Evacuation Behavior to Protect Lives and Disaster Response Training, Muneyoshi NUMADA, Tanohata Village Town Hall, Iwate Prefecture, February 21, 2020.
- Draft preparation of "Disaster prevention process map" for local government disaster response in the event of a nuclear power plant accident, Muneyoshi NUMADA, Fukushima Innovation Coast Initiative Promotion Business Council, Tomioka Town and Kawauchi Village, Fukushima Prefecture, February 16-17, 2020.
- Disaster Response Process -Disaster Training Center (DMTC)-, Muneyoshi NUMADA, JICA Armenia Training in Japan, JICA Tokyo Center, February 14, 2020.
- Disaster response in local governments as an example: Actual situation and issues of initial response, Muneyoshi NUMADA, Tokyo National Highway Office, February 6, 2020.
- Disaster response process management system (BOSS) utilization training, Muneyoshi NUMADA, Kumamoto Prefectural Government, January 16, 2020.
- 47 types of disaster response operations, Muneyoshi NUMADA, University of Tokyo Disaster Response Training Center DMTC, Japan Paper Association training session, Institute of Industrial Science, University of Tokyo, December 9, 2019.
- Review training of evacuation center management using disaster response process management system BOSS, Muneyoshi NUMADA, training for Minamiizu town and surrounding municipality staff, Minamiizu town office, Shizuoka Prefecture, November 28-29, 2019.
- Technology and disaster management education for "adult", Muneyoshi NUMADA, World Bosai Forum / Davos Conference on Disaster Risk Reduction @Sendai 2019, November 11, 2019.

- The Significance and Objectives of the Establishment of the University of Tokyo's Disaster Response Training Center DMTC and International Collaboration, Muneyoshi NUMADA, Taipei City Disaster Response Headquarters, Taiwan, September 3, 2019.
- Discuss Japan's EOCs and response to large-scale incidents, Learning from Experience Session, Muneyoshi Numada, World Bank Regional Emergency Operations Center Workshop, Bangkok, July 22-24, 2019.
- Training for building a disaster prevention process for formulating Okayama City Health and Medical Relief Plan, Muneyoshi NUMADA, Okayama City Health and Welfare Bureau, July 17, 2020.
- Crisis Management and Timeline in Local Voluntary Disaster Prevention Organizations, Muneyoshi NUMADA, Naka-Harima Local Edition Hyogo Disaster Prevention Leader Course, September 7, 2019.
- Crisis Management and Timelines in Local Voluntary Disaster Prevention Organizations, Muneyoshi NUMADA, Ashiya City Disaster Prevention Leader Lecture, September 8, 2019.
- Crisis Management and Timelines in Local Voluntary Disaster Prevention Organizations, Muneyoshi NUMADA, Hyogo Disaster Prevention Leader Lecture, November 30, 2019.
- "To protect our hometown 'life and property'" ~Learn from disaster response and make policies based on responsibility as a local government worker~, Muneyoshi NUMADA, All Japan Self-Government Labor Union 2nd Operation Policy Assembly, Hiroshima Prefecture Fukuyama City, May 27, 2019.
- A large-scale disaster tests the comprehensive strength of an organization through the participation of diverse staff, Muneyoshi NUMADA, All Japan Self-Government Labor Union Self-Government Labor Headquarters Workshop, Tokyo, December 15.
- Overview of disaster response, Muneyoshi NUMADA (remote), Ministry of Internal Affairs and Communications General Management Supporter System (GADM) training, Ariake no Oka core wide-area disaster prevention base facility, May 27, 2019.
- Overall disaster response About the image, Muneyoshi NUMADA, Ministry of Internal Affairs and Communications General Management Supporter System (GADM) training, Ariake no Oka core wide-area disaster prevention base facility, August 9, 2019.
- Management supporter system (GADM) training, Ariake no Oka core wide-area disaster prevention base facility, October 31, 2019.
- Management supporter system (GADM) training, Ariake no Oka core wide-area disaster prevention base facility, November 12, 2019.
- Understanding disaster response principles from the disaster response process, Muneyoshi NUMADA, Special Course, Training for Improving Crisis Management Skills Against Floods, Land, Infrastructure, Transport and Tourism University, May 22, 2019.
- How the Mayors of Municipalities Should Respond to Floods, Muneyoshi NUMADA, Training for Improving Crisis Management Skills Against Floods, Top Forum, Land, Infrastructure, Transport and Tourism University Sabo Hall, May 23, 2019.