

CURRICULUM VITAE (17 February 2022)

Shizuka HASHIMOTO, Ph.D.



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Areas of scientific interest: ecosystem services, scenario analysis, land-use policy and planning, rural development, agri-environmental policy, public participation

Dr. Shizuka Hashimoto is an associate professor at the Department of Ecosystem Studies, School of Agricultural and Life Sciences, the University of Tokyo. Before he joined the University of Tokyo, he worked for Kyoto University (2009-2015), the National Institute for Environmental Studies (2007-2009), and the Massachusetts Institute of Technology (2005-2008). Trained in rural planning, he has more than ten years of experience in ecosystem service evaluation and its application in landscape planning and acquired extensive experience in modeling, land-change & ecosystem service simulation, and scenario analysis. He published a number of peer-reviewed academic papers and book chapters, contributed to a Japan Satoyama Satoumi Assessment as a Coordinating Lead Author, and served as one of the expert group members for Japan Biodiversity Outlook 2 and Japan Biodiversity Outlook 3. The Ministry of the Environment, Japan, has appointed him as one of the expert group members to help revise the National Biodiversity Strategy and Action Plan. Internationally, he contributed to the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Global Assessment and the Asia-Pacific Regional Assessment as a Lead Author. Since 2018, he has served as one of the Multidisciplinary Expert Panel members of IPBES and a co-chair of the IPBES task force on scenarios and models since 2019.

EDUCATION

- 1999/04 – 2003/01 Ph.D. in Agriculture (2003/1), Department of Biological and Environmental Engineering, Graduate School of Agricultural and Life Sciences, The University of Tokyo
- 1997/04 – 1999/03 Master in Agriculture (1999/3), Department of Biological and Environmental Engineering, Graduate School of Agricultural and Life Sciences, The University of Tokyo
- 1993/04 – 1997/03 Bachelor of Science Degree in Mathematics (1997/3), Department of Mathematics, Faculty of Science, Yamaguchi University

EMPLOYMENT

- 2015/11 – Current Associate Professor, Department of Ecosystem Studies, Graduate School of Agricultural and Life Sciences, The University of Tokyo (holding concurrent position at The University of Tokyo Institute for Future Initiatives)
- 2012/04 - 2015/10 Associate Professor, Department of Global Ecology, Graduate School of Global Environmental Studies, Kyoto University
- 2009/04 - 2012/03 Lecturer, Division of Environmental Science and Technology, Graduate School of Agriculture, Kyoto University
- 2007/04 - 2009/03 NIES Special Researcher, Asian Environment Research Group, National Institute for Environmental Studies
- 2005/09 - 2007/03 JSPS Oversea Research Fellowship, Department of Urban Studies and Planning, Massachusetts Institute of Technology
- 2005/04 - 2005/08 Technical Assistant, Department of Biological and Environmental Engineering, Graduate School of Agricultural and Life Sciences, University of Tokyo
- 2003/02 - 2005/03 JSPS Postdoctoral Research Fellow, Department of Biological and Environmental Engineering, Graduate School of Agricultural and Life Sciences, University of Tokyo
- 2002/04 - 2003/01 JSPS Research Fellow (DC2), Department of Biological and Environmental Engineering, Graduate School of Agricultural and Life Sciences, University of Tokyo

FELLOWSHIPS

- 2008/06 2008 Junior Experts Exchange Program in Germany, Organized by Japanese-German Center Berlin [JDZB] in cooperation with German Ministry of Education and Research and Japanese Ministry of Economics and Technology of Japan
- 2003/01 - 2005/03 JSPS Oversea Research Fellowship (at Department of Urban Studies and Planning, Massachusetts Institute of Technology)
- 2005/09 - 2007/03 JSPS Postdoctoral Research Fellow (at Department of Biological and Environmental Engineering, Graduate School of Agricultural and Life Sciences, University of Tokyo)
- 2000/06 - 2000/08 Young Scientist Summer Program by International Institute for the Applied Systems Analysis

AWARDS

2020/08	Paper Award of the Japanese Society of Irrigation, Drainage and Reclamation Engineering
2020/08	Outstanding Technology Award of the Japanese Society of Irrigation, Drainage and Reclamation Engineering
2014/08	Paper Award of the Japanese Society of Irrigation, Drainage and Reclamation Engineering
2012/11	Japan Prize in Agricultural Sciences, Achievement Award for Young Scientists
2009/08	Encouragement Prize of Japanese Society of Irrigation, Drainage and Reclamation Engineering
2004/03	Paper Award of the Japanese Association for Rural Planning
2001/07	Presentation Award of Planning Division of the Japanese Society of Irrigation, Drainage and Reclamation Engineering

SERVICES IN IPBES

2019-	Co-chair, IPBES taskforce on Scenarios and Models
2020 - 2021	Member, IPBES/IPCC workshop scientific steering committee
2018/06 - Current	Member, Management Committee of the thematic assessment of invasive alien species and their control
2020-2022	Drafting team member for the note on the use and impacts of IPBES conceptual framework
2015-2019	Lead author (Chapter 5), Global Assessment Report on Biodiversity and Ecosystem Services.
2015-2018	Lead author (Chapter 5), Regional/subregional assessments on biodiversity and ecosystem services for Asia and the Pacific.

ACADEMIC SERVICES AT THE INTERNATIONAL LEVEL (SINCE 2020)

2021/11 - 2022/01	Drafting team member for the "Expert Input to the Post-2020 Global Biodiversity Framework: Transformative actions on all drivers of biodiversity loss are urgently required to achieve the global goals by 2050"
2021	Drafting team member for the InterAcademy Partnership (IAP) Statement on "Climate Change and Biodiversity: Interlinkages and policy options"
2021	Drafting team member of the Science Academies of the G7's statement on "Reversing biodiversity loss - the case for urgent action"
2016 - Current	Editor, Sustainability Science (Springer)
2021 - Current	Subject Editor, Anthropocene Science (Springer)
2021 - Current	Topical Advisory Panel, Land (MDPI)

OTHER ACADEMIC SERVICES IN JAPAN (SINCE 2020)

2020/10 - Current	Member, Science Council of Japan
2021 - Current	Member, Committee for Japan's National Biodiversity Strategy and Action Plan (established & operated under the Central Environment Council), Ministry of the Environment
2021 - Current	Member, Global Environment Committee (established & operated under the Council for Food, Agriculture and Rural Area Policies), Ministry of Agriculture, Forestry and Fisheries
2019 - 2021	Member, Japan Biodiversity Outlook 3, Ministry of the Environment

2020 – Current Vice-chair, Study Group on the New Ministerialty Strategy and Action of the
Ministry of Agriculture

PUBLICATIONS

Google Scholar: https://scholar.google.co.jp/citations?user=g_mdiPwAAAAJ&hl=en

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=24178612100>

PEER-REVIEWED JOURNAL ARTICLES (*: corresponding author)

1. Y. J. Shin*, E. Archer, A. Arneth, D. K. A. Barnes, L. Chan, **S. Hashimoto**, O. Hoegh-Guldberg, G. Insarov, P. Leadley, L. A. Levin, Others, Actions to halt biodiversity loss generally benefit the climate. *Glob. Chang. Biol.* (2022).
2. R. Dasgupta*, M. Basu, **S. Hashimoto**, R. C. Estoque, P. Kumar, B. A. Johnson, B. K. Mitra, P. Mitra, Residents' place attachment to urban green spaces in Greater Tokyo region: An empirical assessment of dimensionality and influencing socio-demographic factors. *Urban For. Urban Greening.* 67, 127438 (2022).
3. B. Zhu*, **S. Hashimoto**, Is expansion or regulation more critical for existing protected areas? A case study on China's Eco-redline policy in Chongqing capital Land (Basel). 10, 1084 (2021).
4. C. Y. Park*, J. H. Thorne, **S. Hashimoto**, D. K. Lee, K. Takahashi, Differing spatial patterns of the urban heat exposure of elderly populations in two megacities identifies alternate adaptation strategies. *Sci. Total Environ.*, 146455 (2021).
5. R. Dasgupta*, S. Dhyani, M. Basu, R. Kadaverugu, **S. Hashimoto**, P. Kumar, B. A. Johnson, Y. Takahashi, B. K. Mitra, R. Avtar, P. Mitra, Exploring Indigenous and Local Knowledge and Practices (ILKPs) in Traditional Jhum Cultivation for Localizing Sustainable Development Goals (SDGs): A Case Study from Zunheboto District of Nagaland, India. *Environ. Manage.* (2021), doi:10.1007/s00267-021-01514-6.
6. P. C. Abhilash*, S. Bastianoni, W. Chen, R. DeFries, L. F. Fraceto, N. S. Fuckar, **S. Hashimoto**, D. Hunter, S. Keesstra, O. Merah, P. O'Farrell, P. Pradhan, S. Singh, P. Smith, L. C. Stringer, B. L. Turner II, Introducing 'anthropocene science': A new international journal for addressing human impact on the resilience of planet earth. *Anthropocene Science* (2021), doi:10.1007/s44177-021-00001-1.
7. K. Shoyama*, M. Nishi, **S. Hashimoto**, O. Saito, Outcome-Based Assessment of the Payment for Mountain Agriculture: A Community-Based Approach to Countering Land Abandonment in Japan. *Environ. Manage.* (2021), doi:10.1007/s00267-021-01497-4.
8. R. Dasgupta*, **S. Hashimoto**, M. Basu, T. Okuro, B. A. Johnson, P. Kumar, S. Dhyani, Spatial characterization of non-material values across multiple coastal production landscapes in the Indian Sundarban delta. *Sustainability Sci.* (2021), doi:10.1007/s11625-020-00899-3.
9. P. Kumar*, R. Dasgupta, S. Dhyani, R. Kadaverugu, B. A. Johnson, **S. Hashimoto**, N. Sahu, R. Avtar, O. Saito, S. Chakraborty, B. K. Mishra, Scenario-based hydrological modeling for designing climate-resilient coastal water resource management measures: Lessons from Brahmani River, odisha, eastern India. *Sustainability.* 13, 6339 (2021).
10. W. Huang*, **S. Hashimoto**, T. Yoshida, O. Saito, K. Taki, A nature-based approach to mitigate flood risk and improve ecosystem services in Shiga, Japan. *Ecosystem Services.* 50, 101309 (2021).

11. J. Kumagai*, M. Wakamatsu, **S. Hashimoto**, O. Saito, T. Yoshida, T. Yamakita, K. Hori, T. Matsui, M. Oguro, M. Aiba, R. Shibata, T. Nakashizuka, S. Managi, Natural capitals for nature's contributions to people: the case of Japan. *Sustainability Sci.* (2021), doi:10.1007/s11625-020-00891-x.
12. T. Saito*, S. Hashimoto, M. Basu, Measuring relational values: do people in Greater Tokyo appreciate place-based nature and general nature differently? *Sustainability Sci.* (2021), doi:10.1007/s11625-020-00898-4.
13. Y. Liang*, **S. Hashimoto**, L. Liu, Integrated assessment of land-use/land-cover dynamics on carbon storage services in the Loess Plateau of China from 1995 to 2050. *Ecol. Indic.* 120, 106939 (2021).
14. K. Hori*, O. Saito, **S. Hashimoto**, T. Matsui, R. Akter, K. Takeuchi, Projecting population distribution under depopulation conditions in Japan: scenario analysis for future socio-ecological systems. *Sustainability Sci.*, 1–17 (2020).
15. Y. Liang*, L. Liu, **S. Hashimoto**, Spatiotemporal analysis of trends in vegetation change across an artificial desert oasis, Northwest China, 1975--2010. *Arabian Journal of Geosciences.* 13, 1–13 (2020).
16. C. Haga*, M. Maeda, W. Hotta, T. Inoue, T. Matsui, T. Machimura, M. Nakaoka, J. Morimoto, H. Shibata, **S. Hashimoto**, O. Saito, Scenario Analysis of Renewable Energy–Biodiversity Nexuses Using a Forest Landscape Model. *Frontiers in Ecology and Evolution.* 8, 155 (2020).
17. L. Liu, Y. Liang*, **S. Hashimoto**, Integrated assessment of land-use/coverage changes and their impacts on ecosystem services in Gansu Province, northwest China: implications for sustainable development goals, *Sustainability Sci.* 15, 297-314, (2020).
18. M. Basu*, R. DasGupta, **S. Hashimoto**, S. Hoshino, A multi-actor and bottom-up perspective on attaining rural water security: qualitative evidence from India. *Environ. Dev. Sustainability*, 1–24 (2020).
19. M. Basu*, **S. Hashimoto**, R. Dasgupta, The mediating role of place attachment between nature connectedness and human well-being: perspectives from Japan. *Sustainability Sci.* 15, 849–862 (2020).
20. K. Kabaya*, **S. Hashimoto**, K. Takeuchi, Which cultural ecosystem services is more important? A best-worst scaling approach. *Journal of Environmental* (2020) (available at <https://www.tandfonline.com/doi/abs/10.1080/21606544.2019.1683470>).
21. K. M. A. Chan*, D. R. Boyd, R. K. Gould, J. Jetzkowitz, J. Liu, B. Muraca, R. Naidoo, P. Olmsted, T. Satterfield, O. Selomane, G. G. Singh, R. Sumaila, H. T. Ngo, A. K. Boedhihartono, J. Agard, A. P. D. Aguiar, D. Armenteras, L. Balint, C. Barrington - Leigh, W. W. L. Cheung, S. Díaz, J. Driscoll, K. Esler, H. Eyster, E. J. Gregr, **S. Hashimoto**, G. C. Hernández Pedraza, T. Hickler, M. Kok, T. Lazarova, A. A. A. Mohamed, M. Murray - Hudson, P. O' Farrell, I. Palomo, A. K. Saisel, R. Seppelt, J. Settele, B. Strassburg, D. Xue, E. S. Brondízio, Levers and leverage points for pathways to sustainability. *People and Nature.* 2004, 41 (2020).
22. N. Sitas*, Z. V. Harmáčková, J. A. Anticamara, A. Arneth, R. Badola, R. Biggs, R. Blanchard, L. Brotons, M. Cantele, K. Coetzer, R. Dasgupta, E. Den Belder, S. Ghosh, A. Guisan, H. Gundimeda, M. Hamann, P. A. Harrison, **S. Hashimoto**, J. Hauck, B. J. Klatt, K. Kok, R. M. Krug, A. Niamir, P. J. O'farrell, S. Okayasu, I. Palomo, L. M. Pereira, P. Riordan, F.

- Santos-Martín, O. Selomane, Y.-J. Shin, M. Valle, Exploring the usefulness of scenario archetypes in science-policy processes: Experience across IPBES assessments. *Ecol. Soc.* 24 (2019), doi:10.5751/ES-11039-240335.
23. **S. Hashimoto***, Y. Sato, H. Morimoto, Public-private collaboration in allotment garden operation has the potential to provide ecosystem services to urban dwellers more efficiently. *Paddy Water Environ.*, 17, 391-401 (2019).
 24. T. Sawasaki*, **S. Hashimoto**, Tomoya Kishioka, Unveiling a voluntary farmland registration program to secure open space for risk reduction and post-disaster restoration from earthquakes: lessons learned from practices in Chukyo and Kinki, Japan. *Paddy Water Environ.* 17, 265-272 (2019).
 25. R. Dasgupta*, **S. Hashimoto**, H. Gundimeda, Biodiversity/ecosystem services scenario exercises from the Asia-Pacific: typology, archetypes and implications for sustainable development goals (SDGs). *Sustainability Sci.*, 14, 241-257 (2019).
 26. R. DasGupta*, **S. Hashimoto**, T. Okuro, M. Basu, Scenario-based land change modelling in the Indian Sundarban delta: an exploratory analysis of plausible alternative regional futures. *Sustainability Sci.* 14, 221-240 (2019).
 27. T. Uetake*, K. Kabaya, K. Ichikawa, N. Moriwake, **S. Hashimoto**, Quantitative analysis of national biodiversity strategy and action plans about incorporating integrated approaches in production landscapes. *Journal of Environmental Planning and Management*, 62(12), 2055-2079 (2019).
 28. **S. Hashimoto***, R. DasGupta, K. Kabaya, T. Matsui, C. Haga, O. Saito, K. Takeuchi, Scenario analysis of land-use and ecosystem services of social-ecological landscapes: implications of alternative development pathways under declining population in the Noto Peninsula, Japan. *Sustainability Sci.* 14, 53-75 (2019).
 29. O. Saito*, C. Kamiyama, **S. Hashimoto**, T. Matsui, K. Shoyama, K. Kabaya, T. Uetake, H. Taki, Y. Ishikawa, K. Matsushita, F. Yamane, J. Hori, T. Ariga, K. Takeuchi, Co-design of national-scale future scenarios in Japan to predict and assess natural capital and ecosystem services. *Sustainability Sci.*, 14, 5-21 (2019).
 30. K. Shoyama*, T. Matsui, **S. Hashimoto**, K. Kabaya, Development of land-use scenarios using vegetation inventories in Japan. *Sustainability Sci.*, 14, 39-52 (2019).
 31. O. Saito*, C. Kamiyama, **S. Hashimoto**, Non-market food provision and sharing in Japan's socio-ecological production landscapes. *Sustainability (Switzerland)*. 10 (2018), doi:10.3390/su10010213.
 32. K. Kabaya*, **S. Hashimoto**, N. Fukuyo, T. Uetake, Investigating future ecosystem services through participatory scenario building and spatial ecological-economic modelling. *Sustainability Sci.* (2019) (available at <https://link.springer.com/article/10.1007/s11625-018-0590-1>).
 33. T. Matsui*, C. Haga, O. Saito, **S. Hashimoto**, Spatially explicit residential and working population assumptions for projecting and assessing natural capital and ecosystem services in Japan. *Sustainability Sci.* 14, 23-37 (2019).
 34. T. Plieninger*, R. Kohsaka, C. Bieling, **S. Hashimoto**, C. Kamiyama, T. Kizos, M. Penker, P. Kieninger, B. J. Shaw, G. B. Sioen, Y. Yoshida, O. Saito, Fostering biocultural diversity in

landscapes through place-based food networks: a “solution scan” of European and Japanese models. *Sustainability Sci.*, 13, 219-233, (2018), doi:10.1007/s11625-017-0455-z.

35. T. Kishioka, **S. Hashimoto***, M. Nishi, O. Saito, R. Kohsaka, Fostering cooperation between farmers and public and private actors to expand environmentally friendly rice cultivation: intermediary functions and farmers’ perspectives. *Int. J. Agric. Sustainability*. 15, 593–612 (2017).
36. M. Basu*, S. Hoshino, **S. Hashimoto**, R. DasGupta, Determinants of water consumption: A cross-sectional household study in drought-prone rural India. *International Journal of Disaster Risk Reduction*. 24, 373–382 (2017).
37. **S. Hashimoto***, M. Nishi, Policy evolution of land consolidation and rural development in postwar Japan. *Geomat. Landmanagement Landsc.* 3, 57–75 (2016).
38. Y. Tani, **S. Hashimoto***, M. Ochiai, What makes rural, traditional, cultures more sustainable? Implications from conservation efforts in mountainous rural communities of Japan. *Landscape Res.* 41, 892-905 (2016).
39. C. Kamiyama*, **S. Hashimoto**, R. Kohsaka, O. Saito, Non-market food provisioning services via homegardens and communal sharing in satoyama socio-ecological production landscapes on Japan’s Noto peninsula. *Ecosyst. Serv.* 17, 185–196 (2016).
40. M. Basu, S. Hoshino, **S. Hashimoto**, Local climate assessment: a meso-scale analysis of long period rainfall in a rural dry sub-humid district from India. *Int. J. Environ. Stud.* 73, 122-137 (2016).
41. M. Basu*, S. Hoshino, **S. Hashimoto**, A pragmatic analysis of water supply and demand, and adaptive capacity in rural areas: development of Rural Water Insecurity Index. *Nat. Hazards*. 81, 447-466 (2016).
42. M. Spiegelberg*, D. E. Baltazar, M. P. E. Sarigumba, P. M. Orencio, S. Hoshino, **S. Hashimoto**, M. Taniguchi, A. Endo, Unfolding livelihood aspects of the Water-Energy-Food Nexus in the Dampalit Watershed, Philippines. *Journal of Hydrology: Regional Studies*, 11, 53-68, (2015).
43. M. Basu*, S. Hoshino, **S. Hashimoto**, Many issues, limited responses: Coping with water insecurity in rural India. *Water Resources and Rural Development*. 5, 47-63 (2015).
44. R. Kohsaka*, M. Tomiyoshi, O. Saito, **S. Hashimoto**, L. Mohammend, Interactions of knowledge systems in shiitake mushroom production: a case study on the Noto Peninsula, Japan. *J. Forest Res.* 20, 453–463 (2015).
45. **S. Hashimoto***, S. Nakamura, O. Saito, R. Kohsaka, C. Kamiyama, M. Tomiyoshi, T. Kishioka, Mapping and characterizing ecosystem services of social–ecological production landscapes: case study of Noto, Japan. *Sustainability Sci.* 10, 257–273 (2015).
46. S. Díaz*, S. Demissew, J. Carabias, C. Joly, M. Lonsdale, N. Ash, A. Larigauderie, J. R. Adhikari, S. Arico, A. Báldi, A. Bartuska, I. A. Baste, A. Bilgin, E. Brondizio, K. M. A. Chan, V. E. Figueroa, A. Duraiappah, M. Fischer, R. Hill, T. Koetz, P. Leadley, P. Lyver, G. M. Mace, B. Martin-Lopez, M. Okumura, D. Pacheco, U. Pascual, E. S. Pérez, B. Reyers, E. Roth, O. Saito, R. J. Scholes, N. Sharma, H. Tallis, R. Thaman, R. Watson, T. Yahara, Z. A. Hamid, C. Akosim, Y. Al-Hafedh, R. Allahverdiyev, E. Amankwah, T. S. Asah, Z. Asfaw, G. Bartus, A. L. Brooks, J. Caillaux, G. Dalle, D. Darnaedi, A. Driver, G. Erpul, P. Escobar-Eyzaguirre, P. Failler, A. M. M. Fouda, B. Fu, H.

- Gundimeda, **S. Hashimoto**, F. Homer, S. Lavorel, G. Lichtenstein, W. A. Mala, W. Mandivenyi, P. Matczak, C. Mbizvo, M. Mehrdadi, J. P. Metzger, J. B. Mikissa, H. Moller, H. A. Mooney, P. Mumby, H. Nagendra, C. Nesshover, A. A. Oteng-Yeboah, G. Pataki, M. Roué, J. Rubis, M. Schultz, P. Smith, R. Sumaila, K. Takeuchi, S. Thomas, M. Verma, Y. Yeo-Chang, D. Zlatanova, The IPBES Conceptual Framework - connecting nature and people. *Current Opinion in Environmental Sustainability*. 14, 1-16 (2015).
47. H. T. N. Hoang*, S. Hoshino, **S. Hashimoto**, Forest stewardship council certificate for a group of planters in Vietnam: SWOT analysis and implications. *J. Forest Res.* 20, 35-42 (2014), doi:10.1007/s10310-014-0472-z.
 48. T. Yasutaka*, Y. Iwasaki, **S. Hashimoto**, W. Naito, K. Ono, A. Kishimoto, K. Yoshida, M. Murakami, I. Kawaguchi, T. Oka, J. Nakanishi, A GIS-based evaluation of the effect of decontamination on effective doses due to long-term external exposures in Fukushima. *Chemosphere*. 93, 1222-1229 (2013).
 49. L. P. Peng*, Y. Kuki, **S. Hashimoto**, Y. S. Hsieh, Institutional capacity and rural community planning in Japan: an event history analysis. *Paddy Water Environ.* 12, 55-69 (2014).
 50. T. Nakayama, **S. Hashimoto**, Analysis of the ability of water resources to reduce the urban heat island in the Tokyo megalopolis. *Environ. Pollut.* 159, 2164-2173 (2011).
 51. T. Nakayama*, **S. Hashimoto**, H. Hamano, Multiscaled analysis of hydrothermal dynamics in Japanese megalopolis by using integrated approach. *Hydrol. Process.* 26, 2431-2444 (2012).
 52. Q. Zhu*, Y. Geng, T. Fujita, **S. Hashimoto**, Green supply chain management in leading manufacturers: Case studies in Japanese large companies. *Management Research Review*. 33, 380-392 (2010).
 53. **S. Hashimoto***, T. Fujita, Y. Geng, E. Nagasawa, Realizing CO2 emission reduction through industrial symbiosis: a cement production case study for Kawasaki. *Resour. Conserv. Recycl.* 54(10), 704-710 (2010).
 54. R. Van Berkel, T. Fujita, **S. Hashimoto***, M. Fujii, Quantitative assessment of urban and industrial symbiosis in Kawasaki, Japan. *Environ. Sci. Technol.* 43, 1271-1281 (2009).
 55. R. Van Berkel, T. Fujita, **S. Hashimoto***, Y. Geng, Industrial and urban symbiosis in Japan: Analysis of the Eco-Town program 1997-2006. *J. Environ. Manage.* 90, 1544-1556 (2009).
 56. **S. Hashimoto***, Y. Sato, Participatory rural planning in Japan: promises and limits of neighborhood associations. *Paddy Water Environ.* 6, 199-210 (2008).
 57. M. Breiling*, **S. Hashimoto**, Y. Sato, G. Ahamer, Rice-related greenhouse gases in Japan, variations in scale and time and significance for the Kyoto Protocol. *Paddy Water Environ.* 3, 39-46 (2005).

BOOK and Book CHAPTERS

1. R. DasGupta, **S. Hashimoto**, O. Saito (eds). Assessing, mapping and modelling of mangrove ecosystem services in the Asia-Pacific, Springer. 2022 (in press).
2. O. Saito, S. Suneetha, **S. Hashimoto**, K. Takeuchi (eds). Managing Socio-ecological

Production Landscapes and Seascapes for Sustainable Communities in Asia, Springer. 2020.

3. **S. Hashimoto**: Reconstructing areas affected by the Great East Japan Earthquake Disaster: Progress and Challenges (pp. 133-162). In: Shigeko Haruyama and Toshihiko Sugai (ed) Natural Disaster and Coastal Geomorphology (Natural Hazard Series), Springer, 2016
4. T. Katsumi and **S. Hashimoto** (eds): Towards Future Earth: Progresses and Challenges of the Global Environmental Studies, Kaisei pub. 2016.
5. **S. Hashimoto**: "3.5 Identification of the present state of the sato environment"(pp.104-111), Natsuki Shimizu et al. eds, "Connectivity of Hills, Humans and Oceans: Challenge to Improvement of Watershed and Coastal Environments", Kyoto University Press. 2014
6. **S. Hashimoto**: Chapter 6 "What are the futures of satoyama and satoumi?" (pp.189-243), in Anantha Kumar Duraiappah et al. (ed.), "Satoyama-Satoumi Ecosystems and Human Well-Being: Socio-Ecological Production Landscapes of Japan", UNU press, Tokyo, 2012
7. **S. Hashimoto**: Chapter 11 Neighborhood Associations in Machizukuri Processes: Strength and Weakness, in Andre Sorensen and Carolin Funck (ed.) "Living Cities in Japan: Citizens' Movements, Machizukuri and Local Environments", Routledge.
8. **S. Hashimoto**: the Adivasi (India), pp. 98-101, in Susskind, Lawrence and Isabelle Anguelovski (ed.) "Addressing the Land Claims of Indigenous Peoples", MIT CIS Human Rights and Justice Papers, 2008.

INTERNATIONAL CONFERENCE

1. **S. Hashimoto** (2022) Why biodiversity matters?, International Conference on Science and Technology for Sustainability 2021 "Achieving Net Zero Emissions: The Roles of Academia" organized by the Science Council of Japan (Online, 1 February 2022)
2. **S. Hashimoto** (2019) Feeding humanity while conserving biodiversity: challenges in the Anthropocene. Symposium "Flying birds on fields: a special exhibition on friendly food and agriculture" (National Taiwan University Agricultural Exhibition Hall, 1 October 2019). (Keynote)
3. **S. Hashimoto** (2019) Exploring alternative futures of biodiversity and ecosystem services from national to local scales. 10th International Conference on Landscape Ecological Engineering, (Seoul, the Republic of Korea, 31 October 2019). (Keynote)
4. **S. Hashimoto** (2019) Exploring alternative futures of ecosystem services in Japan. Interdisciplinary Symposium: Weaving Climate Change and Ecosystem Services with Big Data (Seoul, Republic of Korea, 12 December 2019). (Keynote)
5. **S. Hashimoto**, R. DasGupta, K. Kabaya, T. Matsui, C. Haga, O. Saito, K. Takeuchi (2017) Exploring alternative futures for the social-ecological production landscapes of Noto: implications of land use change on the provision of ecosystem services. 9th Ecosystem Services Partnership (ESP) world conference (Shenzhen, China, Dec. 2017).
6. R. DasGupta, **S. Hashimoto**, T. Okuro (2017) Scenario-based land change analysis of the lower Gangetic Delta: an exploratory investigation into alternative regional futures. 9th Ecosystem Services Partnership (ESP) world conference (Shenzhen, China, Dec. 2017).

7. **S. Hashimoto** (2017) Predicting and Assessing Natural Capital and Ecosystem Services (PANCES). Expert workshop towards further collaboration between Japanese research community and IIASA (Tokyo, Japan, Jan. 2017).
8. **S. Hashimoto**, K. Kabaya, O. Saito, R. Kohsaka, T. Matsui (2016) Linking land use change projection with ecosystem service evaluation: towards scenario analysis of ecosystem services. Asian ESP Conference: Ecosystem Services for Nature-Based Solutions (Ansan-si, Republic of Korea, Jun. 2016).
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