

哈斯巴干 简历

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研究员，博士生导师

上海师范大学 环境与地理科学学院
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一、学习和工作经历

学习经历

1986.09 - 1991.07 北京大学 数学系 本科 学士学位
1993.09 - 1996.04 北京航空航天大学 理学院 应用数学系 硕士学位
1999.04 - 1999.10 日本 北海道大学 经济学研究科 研究生
2001.03 - 2004.03 中国科学院 遥感应用研究所 博士学位

工作经历

2016.09 - 现在 上海师范大学 环境与地理科学学院 教授 (研究员)
2017.06 - 现在 东京大学 生产技术研究所 Research fellow
2013.03 - 现在 日本 国立环境研究所 Regional Environment Conservation Division, 客座研究员
2013.06 - 2016.08 日本 茨城大学 农学部 研究员
2013.03 - 2013.05 澳大利亚 Flinders 大学 MLFP 研究员
2008.08 - 2013.02 日本 国立环境研究所 地球环境研究中心 NIES fellow
2006.04 - 2008.07 东京大学 生产技术研究所 JSPS 研究员
2004.04 - 2006.03 日本 国立环境研究所 水土壤研究领域 NIES postdoctoral fellow
1996.05 - 1999.03 蒙古国 ERDENET 矿业公司 北京办事处 职员
1991.09 - 1993.08 内蒙古师范大学 数学系 助教

其他兼职

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二、主持的科研项目

- 主持, 2023-2026, 国家科技部, 国家重点研发计划政府间重点专项项目(项目编号: 2022YFE0119500)
- 主持, 2022-2025, “结合碳观测卫星和地面观测对长三角地区甲烷和二氧化碳的排放量进行估算和评估”, 上海市科委, 上海市地方院校能力建设专项 (项目编号: 22010503600)
- 主持, 2018-2021, “结合样本优化和核学习子空间的多源异质遥感数据分类及城市应用”, 国家自然科学基金, 常规面上项目 (项目编号: 41771372)
- 主持, 2021-2026, “Spatiotemporal analysis of atmospheric greenhouse gases distribution using GOSAT data in China”, 日本环境省 GOSAT 系列碳卫星项目(The 3rd GOSAT RA) (项目编号: PI No: 3RA-02)
- 主持, 2022-2025, “Combining ALOS series Optical and SAR imagery for local climate zone classification”, 日本宇宙航空研究开发机构 (JAXA PI No. ER3A2N149)
- 主持, 2018-2020, “多源遥感数据融合与核子空间方法相结合的城市扩展研究”, 上海市科委, 高新技术科技攻关项目 (项目编号: 18511102300)
- 主持, 2016-2021, “Land-cover classification using ALOS-2 in China and Mongolia”, 日本宇宙航空研究开发机构 (The Japan Aerospace Exploration Agency: JAXA; PI No. 3398)
- 主持, 2016-2022, “基于多源遥感数据的城市扩展研究”, 上海师范大学引进人才科研启动项目

- 9) 主持, 2013-2018, “Land Cover Classification Using ALOS PALSAR, AVNIR-2, and PRISM in Ulaanbaatar”, 日本宇宙航空研究开发机构 (The Japan Aerospace Exploration Agency: JAXA; PI No. 1007)
- 10) 主持, 2013, Fellowship “Comparison of urban growth patterns in Adelaide and Tokyo”, 澳大利亚 Mawson Lakes Foundation 项目
- 11) 主持, 2006-2008 “Evaluation of long-term vegetation change in Asian region with climate change,” 日本科技振兴会 (JSPS PI No. 18 · 06170)

三、承担的本科和研究生课程

硕士: 资源环境遥感; 学术规范与论文指导

本科: 概率论与数理统计; 环境遥感

指导的研究生获优秀论文奖:

1. 侯欣言: The 43rd Asian Conference on Remote Sensing, “Research on the spatiotemporal distribution of XCO₂ emissions based on GOSAT satellites in China”, 2022 年 10 月 2-5 日 (Ulaanbaatar, Mongolia)
2. 陈曦: 上海市红外与遥感学会 2021 年年会“优秀论文奖”: “东京建筑密度、高度、地表温度和人口密度之间的定量分析”, 2021 年 11 月 25 日
3. 陈曦: The 42nd Asian Conference on Remote Sensing, “Quantitative analysis of relationships among building density, height, land surface temperature, and population density in Tokyo”, 2021 年 11 月 22-24 日 (Can Tho, 越南)
4. 谢璇: 上海市红外与遥感学会 2020 年年会“优秀论文奖”: “城市化引起的土地覆被变化时空分析——以长三角生态绿色一体化发展示范区为例”, 2021 年 12 月 9 日

四、外语水平及专业特长

英语: 听说读写熟练; 在 Flinders 大学进行过研究工作

日语: 听说读写熟练; 日常工作语言为日语

扎实的数学和物理基础, 擅长 C++ 和 Python 语言的算法和软件开发

应用光学(Optical), 雷达(Radar)和激光雷达(LiDAR)等遥感图像进行信息提取; 基于碳卫星数据的二氧化碳和甲烷浓度特征研究; 分析区域到全球范围的土地覆被变化; 评估和预测城市扩展趋势

五、主要研究方向和研究内容

一直同时从事遥感数据处理方法开发和实际应用双方面的研究。

算法开发: 机器学习算法开发(神经网络, 子空间算法, 粗糙集, 深度学习); 碳卫星数据处理方法; 遥感图像分类及变化检测算法(遥感数据包括航空图像, 光学图像, 合成孔径雷达图像, UVA 无人机图像); 遥感图像融合算法; 局部气候分区(LCZ)分类方法; 基于格网的扩展分析方法; 融合光学和雷达数据识别和提取地表面的信息; 基于 LiDAR 点数据和高分辨率航拍影像的城市三维结构的提取等。

应用研究: 基于 GOSAT, OCO 系列碳卫星数据的大气二氧化碳和甲烷浓度的时空分布特征研究; 基于局部气候分区(LCZ)的城市热岛强度研究; 提取高精度的城市三维立体结构; 城市扩展分析以及基于 LiDAR 点数据, 高分辨率航拍影像和航拍的表面的热辐射信息的城市内部结构的分析; 预测未来的不同城市发展模式对城市的能量消耗, 城市热岛效应及二氧化碳排放的影响; 世界各大城市的时间序列和城市扩展分析; 内蒙古地区土地覆被土地利用和变化分析等。

六、学术论文

在“*Remote Sensing of Environment*”、“*IEEE Transactions on Geoscience and Remote Sensing*”、“*PE&RS*”等遥感领域的国际权威期刊, “*Land Degradation & Development*”、“*Environment and Planning B*”和“*Environmental Research Letters*”等环境方面的国际权威期刊, 以及在《中国科学》, 《中国图象图形学报》等国内外核心期刊上以第一作者发表多篇论文。以第一作者身份撰写国际同行评审的遥感权威教科书《*Remote Sensing Handbook*》的第 24 章(出版社: *Taylor and Francis*; 主

编: Dr. Prasad S. Thenkabail)。论文受到世界银行的高度评价, 研究成果以图表的形式被采用于世界银行 (*World Bank*) 的 2021 年 3 月出版的报告书 “*RICH Food, Smart City*” 之中。

国际期刊 (*通讯作者)

- 1 Terigelehu Te, **Hasi Bagan***, Meihui Che, Xinyan Hou, Bayarsaikhan Uudus. “Spatiotemporal variability of near-surface CO₂ and its affecting factors over Mongolia”, *Environmental Research*, 2023, 236(1), 116796, <https://doi.org/10.1016/j.envres.2023.116796>. (SCI).
- 2 Chaomin Chen, **Hasi Bagan***, Takahiro Yoshida. “Multiscale mapping of local climate zones in Tokyo using airborne LiDAR data, GIS vectors, and Sentinel-2 imagery”, *GIScience & Remote Sensing*, 2023, 45. DOI: <https://doi.org/10.1080/15481603.2023.2209970>. (SCI).
- 3 Xinyan Hou, Xuan Xie, **Hasi Bagan***, Chaomin Chen, Qinxue Wang, and Takahiro Yoshida. “Exploring Spatiotemporal Variations in Land Surface Temperature Based on Local Climate Zones in Shanghai from 2008 to 2020”, 2023. *Remote Sensing*, 15(12), 3106. <https://doi.org/10.3390/rs15123106>. (SCI).
- 4 Chaomin Chen, **Hasi Bagan***, Takahiro Yoshida, Habura Borjigin, Jun Gao. “Quantitative analysis of the building-level relationships between building form and land surface temperature using airborne LiDAR and thermal infrared data”, *Urban Climate*, 2022, 45. DOI: <https://doi.org/10.1016/j.uclim.2022.101248>. (SSCI/ SCI).
- 5 Zhenglun Yang, Changyuan Tang, **Hasi Bagan**, Shunichi Satake, Madoka Orimo, K oichiro Fukumoto and Guangwei Wang. Groundwater Management in an Uncommon and Artificial Aquifer Based on Kc Approach and MODIS ET Products for Irrigation Assessment in a Subtropical Island. *Remote Sensing*, 2022, 14(24), 6304. <https://doi.org/10.3390/rs14246304>. (SCI).
- 6 Yoshie Ishii, **Hasi Bagan**, Koki Iwao, Tsuguki Kinoshita*. “A new land cover classification method using grade-added rough sets,” *IEEE Geoscience and Remote Sensing Letters*, 2021, 18(1): 8-12. DOI: 10.1109/LGRS.2020.2965297. (SCI).
- 7 Chaomin Chen, **Hasi Bagan***, Xuan Xie, Yune La, Yoshiki Yamagata. “Combination of Sentinel-2 and PALSAR-2 for Local Climate Zone Classification: A Case Study of Nanchang, China,” *Remote Sensing*, 2021, 13(10), 1902. <https://doi.org/10.3390/rs13101902>. (SCI).
- 8 **Hasi Bagan***, Andrew Millington, Wataru Takeuchi, Yoshiki Yamagata. “Spatiotemporal analysis of deforestation in the Chapare region of Bolivia using LANDSAT images,” *Land Degradation & Development*, 2020, 31(18): 3024-3039. DOI: <https://doi.org/10.1002/ldr.3692>. (SCI).
- 9 Yune La, **Hasi Bagan***, Yoshiki Yamagata. “Urban land cover mapping under the Local Climate Zone scheme using Sentinel-2 and PALSAR-2 data,” *Urban Climate*, 2020, 33. DOI: <https://doi.org/10.1016/j.uclim.2020.100661>. (SSCI/ SCI)
- 10 **Hasi Bagan***, Habura Borjigin, and Yoshiki Yamagata. “Assessing nighttime lights for mapping the urban areas of 50 cities across the globe,” *Environment and Planning B: Urban Analytics and City Science*, 2019, 46(6), 1097-1114. DOI: <https://doi.org/10.1177/2399808317752926>. (SSCI).
- 11 Temulun Tangud*, Kenlo Nishida Nasahara, Habura Borjigin, **Hasi Bagan**. “Land-cover change in the Wulagai grassland, Inner Mongolia of China between 1986 and 2014 analysed using multi-temporal Landsat images,” *Geocarto International*, 2019, 34(11), 1237-1251. DOI: <https://doi.org/10.1080/10106049.2018.1478457>. (SCI).
- 12 Zhaoling Li, **Hasi Bagan***, Yoshiki Yamagata. “Analysis of spatiotemporal land cover changes in Inner Mongolia using self-organizing map neural network and grid cells method,” *Science of the Total Environment*, 2018, 636: 1180-1191. DOI: <https://doi.org/10.1016/j.scitotenv.2018.04.361>. (SCI).
- 13 **Hasi Bagan***, Huilong Li, Yonghui Yang, Wataru Takeuchi, Yoshiki Yamagata. “The sensitivity of subspace method for land cover classification,” *The Egyptian Journal of Remote Sensing and Space Sciences*, 2018, 21(3): 383-389. DOI: <https://doi.org/10.1016/j.ejrs.2017.12.003>. (ESCI).
- 14 Abdul Aziz Mohibbi, **Hasi Bagan**, Motoko Inatomi, Tsuguki Kinoshita*. “Land Cover Change in Bamyan, Afghanistan from 1990 to 2015: land degradation induced by lack of land management,” *Japanese Journal of Farm Work Research*, 2018, 53(1): 15-32. DOI: 10.4035/jsfwr.53.15

- 15 **Hasi Bagan***, Ram Avtar, Hajime Seya, Huade Guan. “Mathematics in utilizing remote sensing data for investigating and modelling environmental problems,” *Mathematical Problems in Engineering*, 2017, 7430658, DOI: <https://doi.org/10.1155/2017/7430658>. (SCI).
- 16 **Hasi Bagan***, Yoshiki Yamagata, “Analysis of urban growth and estimating population density using satellite images of nighttime lights and land-use and population data,” *GIScience & Remote Sensing*, 2015, 52(6): 765-780. DOI: <https://doi.org/10.1080/15481603.2015.1072400>. (SCI).
- 17 **Hasi Bagan***, Yoshiki Yamagata, “Land-cover change analysis in 50 global cities by using a combination of Landsat data and analysis of grid cell,” *Environmental Research Letters*, 2014, 9(6): 064015. doi:10.1088/1748-9326/9/6/064015. (SCI).
- 18 Tana Qian, **Hasi Bagan***, Tsuguki Kinoshita, Yoshiki Yamagata, “Spatial–temporal analyses of surface coal mining dominated land degradation in Hologol, Inner Mongolia,” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2014, 7(5): 1675-1687. DOI: 10.1109/JSTARS.2014.2301152 (SCI).
- 19 Masato Hayashi*, Yoshiki Yamagata, Habura Borjigin, **Hasi Bagan**, Rikie Suzuki, and Nobuko Saigusa, “Forest biomass mapping with airborne LiDAR in Yokohama City, Japan,” *Journal of the Japan Society of Photogrammetry and Remote Sensing*, 2013, 52(6): 306-315. DOI: 10.4287/jsprs.52.306
- 20 **Hasi Bagan***, Yoshiki Yamagata, “Landsat analysis of urban growth: How Tokyo became the world’s largest megacity during the last 40 years,” *Remote Sensing of Environment*, 2012, 127: 210–222. DOI: <https://doi.org/10.1016/j.rse.2012.09.011>. (SCI).
- 21 **Hasi Bagan***, Tsuguki Kinoshita, Yoshiki Yamagata, “Combination of AVNIR-2, PALSAR, and Polarimetric Parameters for Land Cover Classification,” *IEEE Transactions on Geoscience and Remote Sensing*, 2012, 50(4): 1318–1328. DOI: <https://doi.org/10.1109/TGRS.2011.2164806>. (SCI).
- 22 **Hasi Bagan***, Yoshiki Yamagata, “Improved subspace classification method for multispectral remote sensing image classification,” *Photogrammetric Engineering and Remote Sensing (PE&RS)*, 2010, 76(11): 1239-1251. DOI: <https://doi.org/10.14358/PERS.76.11.1239>. (SCI).
- 23 **Hasi Bagan***, Wataru Takeuchi, Tsuguki Kinoshita, Yuhai Bao, Yoshiki Yamagata. “Land cover classification and change analysis in the Horqin sandy land from 1975 to 2007,” *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 2010, 3(2): 168-177. DOI: <https://doi.org/10.1109/JSTARS.2010.2046627>. (SCI).
- 24 **Hasi Bagan***, Wataru Takeuchi, Yoshiki Yamagata, Xiaohui Wang, Yoshifumi Yasuoka. “Extended Averaged Learning Subspace Method for Hyperspectral Data Classification,” *Sensors*, 2009, 9(6): 4247-4270. DOI: 10.3390/s90604247 (SCI).
- 25 Yoshiki Yamagata*, Wataru Takeuchi, **Hasi Bagan**, Akihiko Ito, Minaco Adachi, “Forest carbon mapping using remotely sensed disturbance history in Borneo,” *IEEE Earthzine*, Sep.21, 2010.
- 26 **Hasi Bagan***, Yoshifumi Yasuoka, Takahiro Endo, Xiaohui Wang, Zhaosheng Feng, “Classification of Airborne Hyperspectral Data Based on the Average Learning Subspace Method,” *IEEE Geoscience and Remote Sensing Letters*, 2008, 5(3): 368-372. DOI: 10.1109/LGRS.2008.915941 (SCI).
- 27 **Hasi Bagan**, Qinxue Wang*, Masataka Watanabe, Satoshi Kameyama, Yuhai Bao, “Land-cover Classification Using ASTER Multi-band Combinations Based on Wavelet Fusion and SOM Neural Network,” *Photogrammetric Engineering and Remote Sensing (PE&RS)*, 2008, 74(3): 333-342. DOI: <https://doi.org/10.14358/PERS.74.3.333>. (SCI).
- 28 **Hasi Bagan***, Qinxue Wang, Yonghui Yang, Yoshifumi Yasuoka, Yuhai Bao, “Land cover classification using moderate resolution imaging spectrometer-enhanced vegetation index time-series data and self-organizing map neural network in Inner Mongolia, China,” *Journal of Applied Remote Sensing*, 2007, 1, 013545. DOI: <https://doi.org/10.1117/1.2819344> (SCI).
- 29 **Hasi Bagan***, Qinxue Wang, Yoshifumi Yasuoka, Masataka Watanabe, “Synergetic use of MODIS, ASTER and Landsat data for land cover classification and its calibration in north China,” *Asian Journal of Geoinformatics*, 2007, 7(3): 15-20.

- 30 **Hasi Bagan***, Qinxue Wang, Masataka Watanabe, Yonghui Yang, Jianwen Ma, “Land cover classification from MODIS EVI times-series data using SOM neural network,” *International Journal of Remote Sensing*, 2005, 26(22): 4999-5012. DOI: <https://doi.org/10.1080/01431160500206650> (SCI).
- 31 **Hasi Bagan***, Ma Jianwen, Li Qiqing, Chen Xue, Dai Qin, “Remote Sensing Data Classification Based on Tolerant Rough Set and Neural Network,” *Science in China Series D - Earth Science*, 2004, 34(10): 967-974. (Chinese version)
- Jianwen Ma, **Hasi Bagan**, “Remote Sensing Data Classification Based on Tolerant Rough Set and Neural Network,” *Science in China Series D: Earth Sciences*, 2005, 48(12): 2251-2259. DOI: 10.1360/03yd0514 (SCI).
- 32 **Hasi Bagan***, Ma Jianwen, Li Qiqing, Han Xiuzhen, Liu Zhili, “Self-organizing feature map neural network classification of the ASTER data based on wavelet fusion,” *Science in China Series D: Earth Sciences*, 2004, 47(7): 651 – 658. DOI: 10.1360/03yd0411 (SCI).
- 33 Jianwen Ma*, **Hasi Bagan**, “Land-use classification using ASTER data and self-organized neural networks,” *International Journal of Applied Earth Observation and Geoinformation*, 2005, 7(3): 183-188. DOI: <https://doi.org/10.1016/j.jag.2005.01.003> (SCI).
- 34 Jianwen Ma *, Han Xiuzhen, **Hasibagan**, Wang CL, Zhang YL, Tang JY, Xie ZY, Deveson TMonitoring, “Monitoring East Asian migratory locust plagues using remote sensing data and field investigations,” *International Journal of Remote Sensing*, 2005, 26(3): 629-634. DOI: <https://doi.org/10.1080/01431160310001595019> (SCI).

日文核心期刊

- 35 哈斯巴干.“新型コロナ禍における中国上海の大学対応状況について”, 写真測量とリモートセンシング, 2021,60(4):217~220.
- 36 Wudabalaqiqige*, Tetsuji Ito, **Hasi Bagan**, Yuji Kuwahara, “Analysis of Natural and Social Environment Issue in Arhorchin Banner, Inner Mongolia,” *Journal of applied survey technology*, 2016, 27: 131-142. (Wudabalaqiqige、伊藤 哲司、**Hasi Bagan**、桑原 祐史.“内モンゴルアルホルチン旗を対象とした自然・社会環境問題の分析”, 応用測量論文集, 第 27 卷, 131-142, 2016).

中文期刊

- 37 侯欣言, 哈斯巴干*, 特日格勒呼 “基于 GOSAT-2 卫星的中国 XCO₂ 时空分布特征分析”, 红外, 2023, 44(8):42-48. Doi: 10.3969/j.issn.1672-8785.2023.08.006
- 38 陈曦, 陈超民, 哈斯巴干*, 吉田崇紘. “城市内部结构和人口密度对地表温度空间变化的影响—以东京新宿区为例”, 红外, 2022, 43(7): 34-40. Doi: 10.3969/j.issn.1672-8785.2022.07.006
- 39 谭路文, 哈斯巴干*, 陈超民, 谢璇. “基于深度学习的无人机遥感影像车辆检测”, 红外, 2022, 43(5): 41-48. Doi: 10.3969/j.issn.1672-8785.2022.05.007
- 40 谢璇, 陈超民, 杜云, 哈斯巴干*. “基于局部气候分区的土地覆被变化时空分析”, 红外, 2021,42(6):34~44. Doi: 10.3969/j.issn.1672-8785.2021.06.007
- 41 杜云, 喇赞娥, 哈斯巴干*. “基于 Landsat 数据的科尔沁沙地土地覆被变化分析”, 红外, 2020,41(6):30~41. Doi: 10.3969/j.issn.1672-8785.2020.06.005
- 42 戴芹, 马建文, 欧阳赟, 哈斯巴干. “利用贝叶斯网络进行遥感变化检测”, 中国图象图形学报, 2005, 10(6): 41-45.
- 43 哈斯巴干, 马建文, 李启青, 陈雪, 戴芹, “容差粗糙集与神经网络结合的遥感数据分类方法”, 中国科学 (D 辑:地球科学), 2004, 34(10): 967 - 974.
- 44 哈斯巴干, 马建文, 李启青. “模糊 c-均值算法改进及其对卫星遥感数据聚类的对比研究”, 计算机工程, 2004, 30(11): 14 - 15.
- 45 哈斯巴干, 马建文, 韩秀珍等. “多波段遥感数据的神经网络降维分类研究”, 武汉大学学报. 信息科学版, 2004, 29(5): 461 - 465.
- 46 李启青, 马建文, 哈斯巴干, 韩秀珍, 刘志丽. “基于遥感数据特征和像元替换技术的边缘提取方法”, 计算机工程, 2004, 30(8): 151-152.

- 47 马建文, 韩秀珍, 哈斯巴干, 王志刚, 燕守勋, 戴芹. “基于东亚飞蝗生育周期的遥感蝗灾监测新模式”, 遥感学报, 2004, 8(4): 370-377.
- 48 刘志丽, 马建文, 张仁健, 王志刚, 哈斯巴干, 李启青. “利用遥感综合分析西风引导气流与地形对沙尘运移路径的影响”, 中国沙漠, 2004, 24(3): 330-334.
- 49 哈斯巴干, 马建文, 李启青, 韩秀珍, 刘志丽, “基于小波融合的 ASTER 数据自组织特征映射神经网络分类研究”, 中国科学 (D 辑: 地球科学), 2003, 33(9): 895-902.
- 50 哈斯巴干, 马建文, 周其江等. “基于气象数据与 AVHRR 热红外数据的人工神经网络分类方法研究”, 中国科学院研究生院学报, 2003, 20(3): 328-333.
- 51 哈斯巴干, 马建文, 李启青. “ASTER 数据的自组织神经网络分类研究”, 地球科学进展, 2003, 18(3): 346-350.
- 52 李启青, 马建文, 哈斯巴干等. “一种可扩展二叉树结构及其先序遍历算法”, 计算机工程与应用, 2003, 28: 22-24.
- 53 李启青, 马建文, 哈斯巴干等. “基于贝叶斯网络模型的遥感数据处理方法”, 电子与信息学报, 2003, 25(10): 1321-1326.
- 54 李启青, 马建文, 哈斯巴干等. “遥感数据的遗传超平面算法”, 遥感学报, 2003, 7: 485-489.
- 55 马建文, 韩秀珍, 哈斯巴干等. “东亚飞蝗灾害的遥感监测实验”, 国土资源遥感, 2003, 55(1): 51-55.
- 56 李启青, 马建文, 哈斯巴干, 刘志丽, 韩秀珍. “基于遥感数据光谱和空间特征的边缘提取方法”, 计算机应用, 2003, 23(9): 53-55.
- 57 哈斯巴干, 马建文, 李启青等. “小波局部高频替代融合方法”, 中国图象图形学报, 2002, 7A(10): 1012-1016.
- 58 马超飞, 马建文, 哈斯巴干等. “基于 RS 和 GIS 的岷江流域退耕还林还草的初步研究”, 水土保持学报, 2001, 15(4): 20-24.
- 59 冯兆生, 哈斯巴干. “关于微分方程的有理式解的存性问题”, 南京航空航天大学学报 1996, 28(3): 86-91.

论著

- 60 **Hasi Bagan**, Yoshiki Yamagata, Book chapter “Urban growth mapping of mega cities: multi-sensor approach” in Book “*Remote Sensing Handbook*,” Editor-in-Chief: Prasad S. Thenkabail; Publisher: CRC Press, Taylor and Francis Group, ISBN 9781482217919, pp. 581-598, Nov. 2015.
- 61 Yoshiki Yamagata, **Hasi Bagan**, Akihiko Ito and Minaco Adachi, “Development study of the forest carbon monitoring system using remote sensing,” *Forests for People* (United Nations Forum on Forests Secretariat), Leicester, Tudor Rose, ISBN 978-0-9568561-1-14, pp. 78-80, Feb. 2012. (联合国国际森林年专著)
- 62 马建文, 李启青, 哈斯巴干, 戴芹. “遥感数据智能处理方法与程序设计”. 北京: 科学出版社, 标准书号: 7-03-015094-5/P.1546, 出版日期: 2005-08-01.
- 63

七、学术会议论文和报告

国内学术会议报告

- 64 哈斯巴干*, “基于时系 InSAR 技术的矿产资源开发引起的地面沉降研究”, 中国地理学会干旱区分会 2023 年学术年会, 2023 年 5 月 6 日, 新疆新源
- 65 陈曦, 陈超民, 哈斯巴干*, 吉田崇紘. “东京建筑密度、高度、地表温度和人口密度之间的定量分析”, 上海市红外与遥感学会 2021 年年会, 2021 年 11 月 25 日(上海).
- 66 哈斯巴干*, 杜云, 侯欣言, 陈曦. “科尔沁沙地土地覆被时空变化定量分析研究”, 中国地理学会干旱区分会 2021 年学术年会, 2021 年 7 月 16-20 日 (西宁)

- 67 **Hasi Bagan**, “Combining rough sets and kernel subspace methods for remote sensing data classification”, 2018 年非线性分析与数值计算国际研讨会, 安徽大学, 2018 年 6 月 18 日-20 日.

国际学术会议大会邀请报告

- 68 **Hasi Bagan**, Yoshiki Yamagata, “Local climate zone classification using optical and PALSAR-2 data”, The Joint PI Meeting of JAXA Earth Observation Mission FY2019, January 20 - 22, 2020, Tokyo, Japan.
- 69 **Hasi Bagan**, Yoshiki Yamagata, “Combination of PALSA-2 and multispectral images for land cover classification,” *The Joint PI Meeting of Global Environment Observation Mission FY2017* (The 3rd ALOS-2 PI Workshop), January 22 - 25, 2018, Tokyo, Japan. (日本宇航机构第三次专家会议; *session chair*; 英语 20 分钟)
- 70 **Hasi Bagan**, Yoshiki Yamagata, “Integration of optical and SAR data for land cover classification,” *IPCC Expert Meeting: Role of Remote Sensing in Forest and National GHG Inventories*, Hayama, Japan, 23 - 25 October 2012. (联合国政府间气候变化专门委员会专家会议; 英语 25 分钟), 网址: http://www.ipcc-nggip.iges.or.jp/meeting/pdfiles/1210_Participants_list_RS.pdf
- 71 **Hasi Bagan**, Wataru Takeuchi, Yoshiki Yamagata, “Subspace method for remote sensing data land cover classification,” *Subspace 2010 in conjunction with MIRU2010*, Kusiro, Hokkaido. 26 July, 2010. (2010 日本图像识别和理解年会; 日语 60 分钟), 网址: <http://www.cvlab.cs.tsukuba.ac.jp/~subspace/ss2010d/>
- 72 **Hasi Bagan**, Yoshiki Yamagata “Land cover land use mapping and change detection in Mongolian plateau using remote sensing data,” *International Symposium on “Impact of Climate Change on Region Specific Systems”*, Hokkaido University, 6 November, 2009. (气候变化对区域的影响国际会议; 英语 45 分钟), 网址: <http://eprints.lib.hokudai.ac.jp/dspace/handle/2115/39904>

国际会议报告

- 73 **Hasi Bagan**. “Analysis of surface subsidence monitoring based on SBAS-InSAR technology”, Joint PI Meeting of JAXA Earth Observation Missions FY2023, 6-10 Nov 2023, (Tokyo, Japan)
- 74 **Hasi Bagan**. “Surface Subsidence Monitoring in Mining Areas Based on SBAS-InSAR Technology”, The 4th International Conference on Environmental Science and Technology, 10-11 August 2023, Ulaanbaatar, Mongolia (Session chair)
- 75 Luwen Tan, **Hasi Bagan**. “Multi-Sensor InSAR Analysis of Land Subsidence over the Central City of Shanghai, China” The 31st IIS forum proceedings, March 7, 2023 (Tokyo, Japan)
- 76 Yuxin Xie, **Hasi Bagan***, Luwen Tan, Yune La, Tonghua Wu, Bayarsaikhan Uudus and Qinxue Wang, “Monitoring land subsidence in Ulaanbaatar, Mongolia based on PS- InSAR technology”, The 43rd Asian Conference on Remote Sensing (ACRS2022), 3-5 October, 2022 (Ulaanbaatar, Mongolia)
- 77 Xinyan Hou, **Hasi Bagan***, Terigelehu Te, Bayarsaikhan Uudus and Qinxue Wang. “Research on the spatiotemporal distribution of XCO₂ emissions based on GOSAT satellites in China” The 43rd Asian Conference on Remote Sensing (ACRS2022), 3-5 October, 2022 (Ulaanbaatar, Mongolia)
- 78 Xinyan Hou, Xuan Xie, **Hasi Bagan***, “Relationship between XCO₂ monitored by GOSAT-2 satellites and land cover: a case study of Shanghai, China”, 30th IIS forum “Earth observation, disaster monitoring and risk assessment from space”, March 3, 2022 (Tokyo, Japan)
- 1 Chaomin Chen, **Hasi Bagan***, Xuan Xie, Luwen Tan, Yoshiki Yamagata, “Assessment of a Random Forest Classifier in Urban Local Climate Zone Classification Using Sentinel-2 and PALSAR-2”, 2021 IEEE International Geoscience and Remote Sensing Symposium (IGARSS2021), pp: 6797-6800, 12 October 2021, 2021-07-12, (布卢塞尔, 比利时), DOI: 10.1109/IGARSS47720.2021.9553260
- 2 Luwen Tan, **Hasi Bagan**. “Vehicle Detection from UAV Remote Sensing Images Using Deep Learning”, ACRS2021, 2021 年 11 月 22-24 日 (Can Tho, 越南)
- 3 Xi Chen, Chaomin Chen, **Hasi Bagan***, Takahiro Yoshida. “Quantitative analysis of relationships among building density, height, land surface temperature, and population density in Tokyo”, ACRS2021, 2021 年 11 月 22-24 日 (Can Tho, 越南)
- 4 Xuan Xie, Chaoming Chen, Yun Du, **Hasi Bagan***, “Spatiotemporal analysis of urbanization caused land

- cover change: case study in the suburban area of the Yangtze river delta, China”, the 41st Asian Conference on Remote Sensing (ACRS2020), pp: 1-6, Nov.11, 2020 (德清, 中国).
- 5 Yun Du, **Hasi Bagan***, Xuan Xie, Chaoming Chen, “Spatiotemporal analysis of land cover change and population dynamics in Horqin sandy land, China”, the 41st Asian Conference on Remote Sensing (ACRS2020), pp: 1-6, Nov.11, 2020 (德清, 中国).
- 6 Yune La, **Hasi Bagan***, Wataru Takeuchi, “Explore Urban Population Distribution Using Nighttime Lights, Land-Use/Land-Cover and Population Census Data,” IGARSS 2019, pp: 1554-1557, Nov.14, 2019 (Yokohama, Japan). doi: 10.1109/IGARSS.2019.8900448
- 7 Yun Du, **Hasi Bagan***, Wataru Takeuchi, “Land-Use/Land-Cover Change and Drivers of Land Degradation in The Horqin Sandy Land, China,” IGARSS 2019, pp: 1598-1601, Nov.14, 2019 (Yokohama, Japan). doi: 10.1109/IGARSS.2019.8899221
- 8 Yoshie Ishii, **Hasi Bagan**, Koki Iwao, Tsuguki Kinoshita, “Comparison of Land Cover Classifications Based on of Rough Set Theory,” *the 39th Asian Conference on Remote Sensing*, pp: 2809-2817, Oct.15-19, 2018 (Kuala Lumpur, Malaysia).
- 9 Yun’e La, **Hasi Bagan***, Yoshiki Yamagata, “Combination of PALSAR-2 and Sentinel-2 imagery for land cover classification”, *Proceedings of the 2018 Japan Society of Photogrammetry and Remote Sensing Conference*, JSPRS, Tokyo, pp. 31-34, May 24, 2018.
- 1 **Hasi Bagan**, Yoshiki Yamagata, “Land cover change analysis in Inner Mongolia, China using grid cell approach” , *2018 American Geophysical Union (AGU) Fall Meeting*, Washington, D.C., 2018. 12 (USA).
- 2 **Hasi Bagan**. “Rapid economic growth caused land cover change in Inner Mongolia between 2000 and 2014”, *XII International Conference: «Environment and sustainable development of the Mongolian plateau and surrounding territories»*, 2017.08 (Ulan-Ude, Russia).
- 3 **Hasi Bagan**, Zhaoling Li, Habura Borjigin, Tsuguki Kinoshita, Yamagata Yamagata, “Identification of Spatio-temporal Land-cover Changes in Inner Mongolia Using SOM Neural Network”, *2016 11th International Conference “Sustainable Natural Resources and Development in Mongolian Plateau”*, Aug. 8-9, 2016, (Ulaanbaatar, Mongolia; *session chair*).
- 4
- 5 **Hasi Bagan***, Tana Qian, Tsuguki Kinoshita, Yoshiki Yamagata, “Recent land use change in the Inner Mongolia threatens grasslands and wetlands”, *Proc. the IX international conference. Environment and Sustainable Development in Mongolian Plateau and Surrounding Regions* (ISBN 978-5-9793-0589-9), pp. 33-36, 2013.8, (Ulan-Ude, Russia).
- 6 **Hasi Bagan**, Yoshiki Yamagata, “Mapping fifty global cities' growth using time-series Landsat data”, *Proc. SPIE 8524, Land Surface Remote Sensing*, 852404, doi:10.1117/12.975945, 2012.11, (Kyoto, Japan).
- 7 **Hasi Bagan**, Yoshiki Yamagata, “Combining ALOS AVNIR-2 and PALSAR for land cover classification”, *Proc. 3rd International Asia-Pacific Conference on Synthetic Aperture Radar (APSAR)*, pp. 1-2, 2011.9. (Seoul, Korea).
- 8 **Hasi Bagan**, Wataru Takeuchi, Yoshiki Yamagata, “Land-cover classification in Kalimantan by polarimetric PALSAR”, *Proc. 2010 ISPRS Technical Commission VIII Symposium, International Archives of the Photogrammetry, Remote Sensing and Spatial Information Science*, Volume XXXVIII, Part 8, pp. 736-739, 2010.8. (Kyoto, Japan)
- 9 **Hasi Bagan**, Wataru Takeuchi, Buhe Aosier, Masami Kaneko, Xiaohui Wang, Yoshifumi Yasuoka, “Extended Subspace Method for Remote Sensing Image Classification”, *IGARSS 2008*, pp. II-927 - II-930, 2008.7 (Boston, Massachusetts, U.S.A.).
- 10 **Hasi Bagan**, Ma Jianwen, Li Qiqing, Liu Zhili, Han Xiuzhen, “ Use of wavelet high-frequency substitution fusion to increase remote sensing image spatial resolution”, *Proc. SPIE 5286, Third International Symposium on Multispectral Image Processing and Pattern Recognition*, 376, doi:10.1117/12.538868, 2003.9. (Beijing, China).
- 11 **Hasi Bagan**, Jianwen Ma and Zijiang Zhou, “Study of artificial neural network method for weather and AVHRR thermal data classification”, *Proc. SPIE 5286, Third International Symposium on Multispectral Image Processing and Pattern Recognition*, 179, doi:10.1117/12.538869, 2003.9 (Beijing, China).
- 12 Hoshino, B., **Hasi Bagan**, Nakazawa, A., Kaneko, M., Kawai, M., Yabuki, T., “Classification of CASI-3 hyperspectral image by subspace method”, *Proc. 2011 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, pp.724-727, 2011.7 (Vancouver, BC, Canada).
- 13 Huilong Li, Yonghui Yang, **Hasi Bagan**, “Multispectral Land Cover Classification Using Averaged Learning Subspace Method”, *Proc. 2008. ICNC '08. Fourth International Conference on Natural*

- Computation*, pp. 182-186, doi:10.1109/ICNC.2008.516, 2008.10 (Jinan, China).
- 14 Ma Jianwen, Han Xiuzhen, **Hasi Bagan**, “Calibration and Verification of Remote sensing data for East Asia Migratory Plague Locust Reed Habitat Monitoring”, *Proc. 2002 IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2002)*, pp. 2868-2870, 2002.6 (Toronto, Canada).
 - 15 **Hasi Bagan**, Yoshiki Yamagata, “Spatio-temporal dynamics of urban expansion in Japan using gridded land use data, population census data and DMSp data”, *2014 American Geophysical Union (AGU) Fall Meeting*, San Francisco, 2014. 12 (USA).
 - 16 **Hasi Bagan**, Yoshiki Yamagata, “Grid cells analysis of urban growth using remote sensing and population census data”, *2012 American Geophysical Union (AGU) Fall Meeting*, San Francisco, 2012. 12 (USA).
 - 17 **Hasi Bagan**, Yoshiki Yamagata, “Mapping fifty global cities growth using time-series landsat data”, *8th SPIE Asia-Pacific Remote Sensing*, 2012. 10, (Kyoto, Japan).
 - 18 **Hasi Bagan**, Yoshiki Yamagata, “Subspace Method for Multispectral, Hyperspectral, and SAR Image classification”, *2011 American Geophysical Union (AGU) Fall Meeting*, San Francisco, 2011. 12 (USA).
 - 19 **Hasi Bagan**, Tsuguki Kinoshita, Yoshiki Yamagata, “Combining polarimetric PALSAR and AVNIR-2 for land cover classification”, *IGARSS 2011*, 2011.7, (Vancouver, Canada)
 - 20 **Hasi Bagan**, Yoshiki Yamagata, “Urban Expansion in Tokyo Metropolitan Area between 1972 and 2002”, *2010 AGU Fall Meeting*, 2010.12, (San Francisco, USA).
 - 21 **Hasi Bagan**, Yoshiki Yamagata, “Land-cover Classification Using Polarimetric PALSAR”, *The 4th Joint PI Symposium of ALOS Data Nodes for ALOS Science Program*, 2010. 11. (Tokyo, Japan).
 - 22 **Hasi Bagan**, Wataru Takeuchi, Yoshiki Yamagata, “Land-cover classification in Kalimantan by polarimetric PALSAR”, *2010 ISPRS Technical Commission VIII Symposium*, 2010. 8, (Kyoto, Japan).
 - 23 **Hasi Bagan**, Tsuguki Kinoshita, Yoshiki Yamagata, “Land Cover Changes between 1974 and 2008 in Ulaanbaatar, Mongolia”, *2009 AGU Fall Meeting*, San Francisco, 2009.12, (USA).
 - 24 **Hasi Bagan**, Yoshiki Yamagata, Yoshifumi Yasuoka, “Land Cover Changes between 1977 and 2007 in Horqin Sandy Land, Inner Mongolia Autonomous Region, China”, *IGARSS 2009*, 2009.7, (Cape Town, South Africa).
 - 25 **Hasi Bagan**, Wataru Takeuchi, Buhe Aosier, Masami Kaneko, Xiaohui Wang, Yoshifumi Yasuoka, “Extended Subspace Method for Remote Sensing Image Classification”, *IGARSS 2008*, 2008.7, (Boston, USA).
 - 26 **Hasi Bagan**, Pranab J Baruah, Qinxue Wang, Yoshifumi Yasuoka, “Cropland Area Extraction in China with Multi-Temporal MODIS Data”, *2007 AGU Fall Meeting*, 2007. 12. (San Francisco, USA).
 - 27 **Hasi Bagan**, Qinxue Wang, Masataka Watanabe, “Land Cover Classification from MODIS EVI Timeseries Data using SOM Neural Network”, *NASA MODIS Vegetation Workshop II*, 2004.8. (University of Montana, USA).
 - 28 **Hasi Bagan**, Qinxue Wang, Yoshifumi Yasuoka, Masataka Watanabe, “Synergetic use of MODIS, ASTER and Landsat data for land cover classification in arid and semi-arid area of north China”, *The 27th Asian Conference on Remote Sensing*, 2006. 10. (Ulaanbaatar, Mongolia).

日本会议报告

- 29 **Hasi Bagan**, Zhaoling Li, 木下嗣基, 平春, 山形与志樹, 「2000年から2014年までの内モンゴルの土地被覆変化」, 第24回生研フォーラム, 東京 (2016.3).
- 30 **Hasi Bagan**, 木下嗣基, 平春, 山形与志樹, 「土地被覆図を用いたDMSp/OLSから抽出された都市域の解析」, 日本写真測量学会平成27年度秋季学術講演会発表論文集, 釧路 (2015.10).
- 31 **Hasi Bagan**, 木下嗣基, 山形与志樹, 「グリッド手法による土地被覆変化の分析」, 日本写真測量学会平成26年度年次学術講演会, 東京 (2014.5).
- 32 **Hasi Bagan**, 山形与志樹, 「航空機搭載型LiDARデータと空中写真を用いた都市の3D解析」, 第15回画像の認識・理解シンポジウムMIRU2012, 福岡 (2012.8).
- 33 **Hasi Bagan**, 山形与志樹, 「関東地方の40年間の都市域の変化」, 日本写真測量学会平成23年度秋季学術講演会, 別府 (2011.10).
- 34 **Hasi Bagan**, 山形与志樹, 「リモートセンシング画像分類における部分空間法-今の進展と今後の課題」, 第14回画像の認識と理解シンポジウムMIRU2011, 金沢 (2011.7)
- 35 **Hasi Bagan**, 山形与志樹, 「土地被覆分類と部分空間法」, 日本写真測量学会平成22年度秋季学術講演会, 函館 (2010.10).
- 36 **Hasi Bagan**, 竹内渉, 山形与志樹, 「Horqin砂地の1977-2007年間の土地被覆変化」, 日本写真測量学会平成21年度年次学術講演会, 横浜 (2009.3).
- 37 **Hasi Bagan**, 竹内渉, 山形与志樹, 「部分空間法による土地被覆分類」, 第18回生研フォーラム「宇宙からの地球環境モニタリング」学術講演会, 東京 (2009.3).

- 38 **Hasi Bagan**, 王勤学, 安岡善文, 「MODIS 時系列データによる中国の土地被覆分類」, 日本写真測量学会平成 19 年度秋季学術講演会, 長岡 (2007.10).
- 39 **Hasi Bagan**, 安岡善文, 「数学手法によるリモートセンシングデータ処理」, 日立製作所中央研究所, 東京 (2007.4).

日文会议论文

- 40 **Hasi Bagan**, Zhaoling Li, 木下嗣基, 平春, 山形与志樹, 「2000 年から 2014 年までの内モンゴルの土地被覆変化」, 第 24 回生研フォーラム論文集, pp.69-70, 2016.3
- 41 **Hasi Bagan**, 木下嗣基, 山形与志樹: 第 23 回生研フォーラム「統計手法による土地被覆の時・空間変動の分析」, 第 23 回生研フォーラム論文集, pp.99-100, 2015.3
- 42 **Hasi Bagan**, 木下嗣基, 山形与志樹, “グリッド手法による土地被覆変化の分析”, 日本写真測量学会平成 26 年度年次学術講演会発表論文集, pp.18-19, 2014.5
- 43 **Hasi Bagan**, 山形与志樹, “航空機搭載型 LiDAR データと空中写真を用いた都市の 3D 解析”, 第 15 回画像の認識・理解シンポジウム MIRU2012 発表論文集, 2012.8
- 44 **Hasi Bagan**, 山形与志樹, “関東地方の 40 年間の都市域の変化”, 日本写真測量学会平成 23 年度秋季学術講演会発表論文集, 2011.10
- 45 **Hasi Bagan**, 山形与志樹, “リモートセンシング画像分類における部分空間法—今の進展と今後の課題”, 第 14 回画像の認識と理解シンポジウム MIRU2011 発表論文集, 2011.7
- 46 **Hasi Bagan**, 山形与志樹, “土地被覆分類と部分空間法”, 日本写真測量学会平成 22 年度秋季学術講演会発表論文集, 2010.10
- 47 **Hasi Bagan**, 竹内涉, 山形与志樹, “部分空間法を用いたリモートセンシング画像の土地被覆分類”, 画像の認識と理解シンポジウム MIRU2010 発表論文集, 2010.7
- 48 **Hasi Bagan**, 竹内涉, 山形与志樹, “Horqin 砂地の 1977-2007 年間の土地被覆変化”, 日本写真測量学会平成 21 年度年次学術講演会発表論文集, pp.5-6, 2009.3
- 49 **Hasi Bagan**, 竹内涉, 山形与志樹, “部分空間法による土地被覆分類”, 第 18 回生研フォーラム「宇宙からの地球環境モニタリング」学術講演会論文集, pp.91-92, 2009.3.

国際学术期刊编委

- 2021 Remote Sensing (SCI); Guest Editor
2019 Sustainability (SCI/SSCI); Lead Guest Editor

奖励和荣誉

- A) 2013 Mawson Lakes Foundation Fellowship, *Australia*
B) 2006 The Best Poster Presentation Award, *the 27th Asian Conference on Remote Sensing*
C) 2006 Grant-In-Aid for Scientific Research, *Japan Society for the Promotion of Science*

所属学会

- 1) 上海市红外与遥感学会 理事
- 2) IEEE Geoscience and Remote Sensing Society
- 3) Japan Society of Photogrammetry and Remote Sensing
- 4) Remote Sensing Society of Japan
- 5) American Geophysical Union

科研基金评审

- 1) 中国国家自然科学基金面上项目 评审专家
- 2) 比利时 Belgian Earth Observation Research Programme (STERO II proposal) 评审专家

成果应用

世界银行 2021 报告

Acharya, Gayatri; Cassou, Emilie; Jaffee, Steven; Ludher, Elyssa Kaur. 2021. *RICH Food, Smart City: How Building Reliable, Inclusive, Competitive, and Healthy Food Systems is Smart Policy for Urban Asia*. **World Bank**, Washington, DC. <https://openknowledge.worldbank.org/handle/10986/35137>

国际学术期刊审稿

- 1) Applied Energy
- 2) Arid Land Research and Management
- 3) Asian Journal of Geoinformatics
- 4) Canadian Journal of Remote Sensing
- 5) Catena
- 6) Computers, Environment and Urban Systems
- 7) Ecological Engineering
- 8) European Journal of Remote Sensing
- 9) European Journal of Soil Science
- 10) Environment and Planning B
- 11) Geocarto International
- 12) GIScience & Remote Sensing
- 13) IEEE Access
- 14) IEEE Geoscience and Remote Sensing Letters
- 15) IEEE Journal of Selected Topics in Earth Observations and Remote Sensing
- 16) IEEE Transactions on Geoscience and Remote Sensing
- 17) IEEE Transactions on Image Processing
- 18) IEICE Trans. Fundamentals/Commun./Electron./Inf. & Syst
- 19) International Journal of Applied Earth Observation and Geoinformation
- 20) International Journal of Digital Earth
- 21) International Journal of Information Technology & Decision Making
- 22) International Journal of Remote Sensing
- 23) ISPRS Journal of Photogrammetry and Remote Sensing
- 24) Journal of African Earth Sciences
- 25) Journal of Earth System Science
- 26) Journal of Earth Science & Climatic Change
- 27) Journal of Mathematical Analysis and Applications
- 28) Journal of Urban Management
- 29) Landscape and Urban Planning
- 30) Land Degradation & Development
- 31) Mathematical Problems in Engineering
- 32) Photogrammetric Engineering and Remote Sensing
- 33) Remote Sensing
- 34) Remote Sensing Applications
- 35) Remote Sensing Letters
- 36) Remote Sensing of Environment
- 37) Scientific Reports
- 38) Sensors
- 39) Sustainability
- 40) Urban Climate
- 41) Water resource research