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My primary research interests lay in the field of Land System Science. My expertise and research interests include monitoring of dynamic of land cover and land use, analysis of the causal drivers of land-use/ land-cover change, agricultural potentials and consequences of such changes for the environment. My primary geography focus is on the transition economies in Northern Eurasia. However I am also conducting comparative studies elsewhere too. Shortly, through my research and professional service I do my best to uncover complex relationship between humans and environment in order to find solutions for sustainable development, such as agriculture and preservation of ecosystem services. My work is highly interdisciplinary and collaborative, and stretches across institutions and countries. I am opened for new opportunities of doing research, projects and supervision of prospective students. I pay specific attention to dissemination of findings in the studied countries and keep close relationship with many organizations, which may help bring research results into practice. If you feel the focus of my research matches your interests, please do not hesitate to contact me.

## Publications

### **Mapping cropland abandonment and distinguishing from intentional afforestation with Landsat time series**

Hong, C., Prishchepov, Alexander V., Jin, X. & Zhou, Y., 2024, In: International Journal of Applied Earth Observation and Geoinformation. 127, 14 p., 103693.

### **Understanding habitat isolation in the context of construction land expansion using an ecological network approach**

Ding, G., Guo, J., Ou, M. & Prishchepov, Alexander V., 2024, In: Landscape Ecology. 39, 3, 20 p., 56.

### **Understanding the spatial disparity in socio-economic recovery of coastal communities following typhoon disasters**

Ding, Shengping, Xu, L., Liu, S., Yang, X., Wang, L., Pérez-Sindín, Xaquín S. & Prishchepov, Alexander V., 2024, In: Science of the Total Environment. 919, 170831.

### **Assessing forest conservation outcomes of a nature reserve in a subtropical forest ecosystem: effectiveness, spillover effects, and insights for spatial conservation prioritization**

Xia, Hao, Li, H. & Prishchepov, Alexander V., 2023, In: Biological Conservation. 285, 13 p., 110254.

### **Detection and mapping of artillery craters with very high spatial resolution satellite imagery and deep learning**

Duncan, E. C., Skakun, S., Kariryaa, Ankit & Prishchepov, Alexander V., 2023, In: Science of Remote Sensing. 7, 11 p., 100092.

### **Determinants of farmland abandonment in the urban–rural fringe of Ghana**

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### **Higher depression risks in medium- than in high-density urban form across Denmark**

Chen, T. K., Horsdal, H. T., Samuelsson, K., Closter, A. M., Davies, Megan, Barthel, S., Pedersen, C. B., Prishchepov, Alexander V. & Sabel, C. E., 2023, In: Science Advances. 10 p.

### **Historical and future perspectives of agricultural land abandonment and carbon sequestration**

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**Spatial-temporal heterogeneity of ecosystem service interactions and their social-ecological drivers: Implications for spatial planning and management**

Xia, Hao, Yuan, S. & Prishchepov, Alexander V., 2023, In: Resources, Conservation and Recycling. 189, 16 p., 106767.

**The neglected role of abandoned cropland in supporting both food security and climate change mitigation**

Zheng, Q., Ha, T., Prishchepov, Alexander V., Zeng, Y., Yin, H. & Koh, L. P., 2023, In: Nature Communications. 14, 13 p., 6083.

**The role of harmonized Landsat Sentinel-2 (HLS) products to reveal multiple trajectories and determinants of cropland abandonment in subtropical mountainous areas**

Hong, C., Prishchepov, Alexander V., Jin, X., Han, B., Lin, J., Liu, J., Ren, J. & Zhou, Y., 2023, In: Journal of Environmental Management. 336, 13 p., 117621.

**Probabilistic assessment of vegetation vulnerability to drought stress in Central Asia**

Yuan, Y., Bao, A., Jiang, P., Hamdi, R., Termonia, P., Maeyer, P. D., Guo, H., Zheng, G., Yu, T. & Prishchepov, Alexander V., May 2022, In: Journal of Environmental Management. 310, 14 p., 114504.

**Advancing the study of driving forces of landscape change**

Bürgi, M., Celio, E., Diogo, V., Hersperger, A. M., Kizos, T., Lieskovsky, J., Pazur, R., Plieninger, T., Prishchepov, Alexander V. & Verburg, P. H., 2022, In: Journal of Land Use Science. 17, 1, p. 540-555 16 p.

**EMERGENCY FLOOD MAPPING IN AUSTRALIA WITH SENTINEL-1 AND SENTINEL-2 SATELLITE IMAGERY = CARTOGRAPHIE D'URGENCE DES INONDATIONS EN AUSTRALIE À PARTIR D'IMAGES SATELLITAIRES SENTINEL-1 ET SENTINEL-2**

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**Mapping the spatial and temporal patterns of fallow land in mountainous regions of China**

Song, W., Prishchepov, Alexander V. & Song, W., 2022, In: International Journal of Digital Earth. 15, 1, p. 2148–2167 20 p.

**Transformation of rural landscapes in the Vietnamese Mekong Delta from 1990 to 2019: a spatio-temporal analysis**

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Hou, D., Meng, F. & Prishchepov, Alexander V., Oct 2021, In: *Landscape and Urban Planning*. 214, 16 p., 104170.

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**Unraveling the change of land-use regimes with satellite and ground surveys in the steppe belt of Russia from 1990 to 2018**

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**Mapping the dynamics of winter wheat in the north china plain from dense landsat time series (1999 to 2019)**

Zhang, Wenmin, Brandt, Martin Stefan, Prishchepov, Alexander V., Li, Z., Lyu, C. & Fensholt, Rasmus, 2 Mar 2021, In: *Remote Sensing*. 13, 6, 1170.

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**Study of farmer's behavior in recultivation of abandoned farmland: Example of the republic of buryatia**

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**Agricultural Land Abandonment**

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**Effects of building density on land surface temperature in China: Spatial patterns and determinants**

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**Mapping winter wheat with combinations of temporally aggregated Sentinel-2 and Landsat-8 data in Shandong Province, China**

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**From woody cover to woody canopies: How Sentinel-1 and Sentinel-2 data advance the mapping of woody plants in savannas**

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**Mapping spatio-temporal patterns and detecting the factors of traffic congestion with multi-source data fusion and mining techniques**

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**Monitoring finer-scale population density in urban functional zones: A remote sensing data fusion approach**

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**Spatio-temporal patterns of traffic-related air pollutant emissions in different urban functional zones estimated by real-time video and deep learning technique**

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**Increasing crop production in Russia and Ukraine-regional and global impacts from intensification and recultivation**

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### **A novel understanding of land use characteristics caused by mining activities: a case study of Wu'an, China**

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### **Alternative spatial allocation of suitable land for biofuel production in China**

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### **Changes of cropland area in the river basins of the European part of Russia for the period 1985-2015, as a factor of soil erosion dynamics: Изменения площади пахотных угодий в бассейнах рек Европейской территории России за период 1985–2015 гг. как фактор динамики эрозии почв**

Ivanov, M. A., Prishchepov, Alexander V., Golosov, V. N., Zalyaliev, R. R., Efimov, K. V., Kondrat'eva, A. A., Kinyashova, A. D. & Ionova, Y. K., 2017, In: *Sovremennye Problemy Distantionnogo Zondirovaniya Zemli iz Kosmosa*. 14, 6, p. 149-157 9 p.

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### **Agricultural Fires in European Russia, Belarus, and Lithuania and Their Impact on Air Quality, 2002-2012**

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