

## Remote sensing AND Rice

Rice yield estimation using synthetic aperture radar (SAR) and the ORYZA crop growth model: development and application of the system in South and South-east Asian countries

Setiyono, T.D., Quicho, E.D., Holecz, F.H., (...), Pazhanivelan, S., Mabalay, M.R.O.

2019 International Journal of Remote Sensing

Land tessellation effects in mapping agricultural areas by remote sensing at field level

Borgogno Mondino, E., Corvino, G.

2019 International Journal of Remote Sensing

Double-rice system simulation in a topographically diverse region-A remote-sensing-driven case study in Hunan Province of China

Zhang, J., Zhang, Z., Wang, C., Tao, F.

2019 Remote Sensing

Remote sensing extraction of crop disaster information based on support vector machine

Chen, Y., Wan, W.

2019 Revista de la Facultad de Agronomia

Collaborative inversion heavy metal stress in rice by using two-dimensional spectral feature space based on HJ-1 A HSI and radarsat-2 SAR remote sensing data

Li, X., Li, L., Liu, X.

2019 International Journal of Applied Earth Observation and Geoinformation

Estimation of rice growth parameters based on linear mixed-effect model using multispectral images from fixed-wing unmanned aerial vehicles

Wang, Y., Zhang, K., Tang, C., (...), Cao, W., Liu, X.

2019 Remote Sensing

Application of the simple biosphere model 2 (SiB2) with irrigation module to a typical low-hilly red soil farmland and the sensitivity analysis of modeled energy fluxes in southern China

Jing, Z., Jing, Y., Zhang, F., Qiu, R., Wido, H.

2019 Water (Switzerland)

Analysis of Seasonal Precipitation, Potential Evapotranspiration, Aridity, Future Precipitation Anomaly and Major Crops at District Level of India

Goparaju, L., Ahmad, F.

2019 KN - Journal of Cartography and Geographic Information

Temporal-spatial changes about the landscape pattern of water system and their relationship with food and energy in a mega city in China

Wang, S., Yang, K., Yuan, D., Yu, K., Su, Y.

2019 Ecological Modelling

A dynamic soil endmember spectrum selection approach for soil and crop residue linear spectral unmixing analysis

Yue, J., Tian, Q., Tang, S., Xu, K., Zhou, C.

2019 International Journal of Applied Earth Observation and Geoinformation

Remote sensing and GIS applications for sustainable food agricultural land mapping and supporting the preparation of regional spatial plans (case study of Badung Regency)

Lanya, I., Netera Subadiyasa, N., Sardiana, K., Ratna Adi, G.P., Gunasih, M.T.

2019 IOP Conference Series: Earth and Environmental Science

Time series of flood mapping in the Mekong Delta using high resolution satellite images

Dinh, D.A., Elmahrad, B., Leinenkugel, P., Newton, A.

2019 IOP Conference Series: Earth and Environmental Science

The aging behaviors of chromophoric biomass burning brown carbon during dark aqueous hydroxyl radical oxidation processes in laboratory studies

Fan, X., Yu, X., Wang, Y., (...), Song, J., Peng, P. 2019 Atmospheric Environment

Identifying dry-season rice-planting patterns in bangladesh using the landsat archive

Shew, A.M., Ghosh, A.

2019 Remote Sensing

Short term response of soil properties and rice growth to land consolidation in south of Jiangsu Province

Li, X., Zhu, F., Xu, T., (...), Yu, M., Chen, F.

2019 Acta Pedologica Sinica

Electronic monitoring and disease diagnosis of oryza sativa crops through an IoT enabled embedded system

Menaka, R., Keshav, G., Chandra Karan, R., (...), Nachiappan, A., Karthik, R.

2019 International Journal of Recent Technology and Engineering

Impact of climate change on agricultural productivity and food security in the Himalayas: A case study in Nepal  
 Bocchiola, D., Brunetti, L., Soncini, A., Polinelli, F., Gianinetto, M.  
 2019 Agricultural Systems  
 Comparison between the Effects of Visible Light and Multispectral Sensor Based on Low-Altitude Remote Sensing Platform in the Evaluation of Rice Sheath Blight  
 Zhao, X.-Y., Zhang, J., Zhang, D.-Y., (...), Liu, X.-H., Xie, J.  
 2019 Guang Pu Xue Yu Guang Pu Fen Xi/Spectroscopy and Spectral Analysis  
 Discriminating transplanted and direct seeded rice using Sentinel-1 intensity data Fikriyah, V.N., Darvishzadeh, R., Laborte, A., Khan, N.I., Nelson, A.  
 2019 International Journal of Applied Earth Observation and Geoinformation  
 Deep convolutional neural networks for rice grain yield estimation at the ripening stage using UAV-based remotely sensed images  
 Yang, Q., Shi, L., Han, J., Zha, Y., Zhu, P.  
 2019 Field Crops Research  
 Rice yield estimation using parcel-level relative spectral variables from uav-based hyperspectral imagery  
 Wang, F., Wang, F., Zhang, Y., (...), Huang, J., Xie, J.  
 2019 Frontiers in Plant Science  
**Estimation of root zone soil moisture using passive microwave remote sensing: A case study for rice and wheat crops for three states in the Indo-Gangetic basin**  
 Sure, A., Dikshit, O.  
 2019 Journal of Environmental Management  
 Spatial-temporal variations and driving factor analysis of paddy fields in typical regions of Sanjiang Plain  
 Zhang, W., Song, G.  
 2019 Nongye Gongcheng Xuebao/Transactions of the Chinese Society of Agricultural Engineering  
 Remote estimation of rice yield with unmanned aerial vehicle (uav) data and spectral mixture analysis  
 Duan, B., Fang, S., Zhu, R., (...), Gong, Y., Peng, Y.  
 2019 Frontiers in Plant Science  
 Characterization of food cultivation along roadside transects with Google Street View imagery and deep learning  
 Ringland, J., Bohm, M., Baek, S.-R.  
 2019 Computers and Electronics in Agriculture  
 Agro-ecological variability effects on an index-based insurance design for extreme events  
 Valverde-Arias, O., Garrido, A., Saa-Requejo, A., Carreño, F., Tarquis, A.M.  
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 Comparison of various modelling approaches for water deficit stress monitoring in rice crop through hyperspectral remote sensing  
 Krishna, G., Sahoo, R.N., Singh, P., (...), Ahmad, T., Sahoo, P.M.  
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 Estimating rice agronomic traits using drone-collected multispectral imagery  
 Stavrakoudis, D., Katsantonis, D., Kadoglidou, K., Kalaitzidis, A., Gitas, I.Z.  
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 Estimation of relative water content in rice panicle based on hyperspectral vegetation indexes under water saving irrigation  
 Zhang, Z., Lou, Y., Li, R., Ma, L., Li, J.  
 2019 Spectroscopy Letters  
 Estimating crop nutritional status using smart apps to support nitrogen fertilization. A case study on paddy rice  
 Paleari, L., Movedi, E., Vesely, F.M., (...), Nutini, F., Confalonieri, R.  
 2019 Sensors (Switzerland)  
 UAV-Borne dual-band sensor method for monitoring physiological crop status  
 Yao, L., Wang, Q., Yang, J., (...), Cao, W., Ni, J. 2019  
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 A framework for rice heavy metal stress monitoring based on phenological phase space and temporal profile analysis  
 Zou, X., Liu, X., Liu, M., Liu, M., Zhang, B.  
 2019 International Journal of Environmental Research and Public Health  
**Assimilating remote sensing phenological information into the WOFOST model for rice growth simulation**  
 Zhou, G., Liu, X., Liu, M.  
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**Downscaling rice yield simulation at sub-field scale using remotely sensed LAI data**  
 Gilardelli, C., Stella, T., Confalonieri, R., (...), García-Haro, F.J., Boschetti, M.

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The effect of terrain factors on rice production: A case study in Hunan Province  
Wang, C., Zhang, Z., Zhang, J., (...), Chen, Y., Ding, H.

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Pei, X., Wu, H., Ma, P., (...), Hao, P., Bai, Y.

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Cultivated Land Quality Evaluation Based on Inversion of NPP Based on Long-term Sequence Remote Sensing Data  
Ma, J., Zhang, C., Lü, Y., (...), Yun, W., Zhu, D.

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Yb3+/Er3+ co-doped Lu2 TeO6 nanophosphors: Hydrothermal synthesis, upconversion luminescence and highly sensitive temperature sensing performance  
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Prediction of cadmium concentration in brown rice before harvest by hyperspectral remote sensing  
Zhou, W., Zhang, J., Zou, M., (...), Liu, Y., Li, J.

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Continuous observation of vegetation canopy dynamics using an integrated low-cost, near-surface remote sensing system  
Kim, J., Ryu, Y., Jiang, C., Hwang, Y.

2019 Agricultural and Forest Meteorology  
**Landsat 8 satellite imagery analysis for rice production estimates (Case study: Bojonegoro regencys)**  
Sukojo, B.M., Nabilah, S., Swastyastu, C.A.

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Estimation of dynamic canopy variables using hyperspectral derived vegetation indices under varying N rates at diverse phenological stages of rice  
Din, M., Ming, J., Hussain, S., (...), Hua, S., Wang, S.

2019 Frontiers in Plant Science  
Spatial Distribution of *Culex tritaeniorhynchus* Giles, 1901 (Diptera: Culicidae) in Relation to Pigsties and Other Geo-environmental Features in Dao County, Hunan Province, China  
Liu, M.D., Li, C.X., Huang, Y., (...), Nu, W., Zhao, T.Y.

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Sensitivity of a ratio vegetation index derived from hyperspectral remote sensing to the brown planthopper stress on rice plants  
Tan, Y., Sun, J.-Y., Zhang, B., (...), Liu, Y., Liu, X.-D.

2019 Sensors (Switzerland)  
**Object-based rice mapping using time-series and phenological data**  
Zhang, M., Lin, H.

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Detection of rice phenological variations under heavy metal stress by means of blended landsat and MODIS image time series  
Zhang, B., Liu, X., Liu, M., Meng, Y.

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An understanding rice hyperspectral remote sensing imagery classification framework  
Purwadi, Suryana, N., Abu, N.A.

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Estimation of rice yield from a C-band radar remote sensing image by integrating a physical scattering model and an optimization algorithm  
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Characterization of rice agriculture in the Southern Province of Rwanda by means of microwave remote sensing  
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The feasibility of using vegetation indices and soil texture to predict rice yield  
Yaghouti, H., Pazira, E., Amiri, E., Masihabadi, M.H.

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Rice yield estimation based on K-means clustering with graph-cut segmentation using low-altitude UAV images  
Reza, M.N., Na, I.S., Baek, S.W., Lee, K.-H.

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A high-resolution, integrated system for rice yield forecasting at district level  
Pagani, V., Guarneri, T., Busetto, L., (...), Casteleyn, S., Confalonieri, R.

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Assessing correlation of high-resolution NDVI with fertilizer application level and yield of rice and wheat crops using small UAVs  
Guan, S., Fukami, K., Matsunaka, H., (...), Ohdan, H., Takahashi, K.

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Predictors of drought in inland valley landscapes and enabling factors for rice farmers' mitigation measures in the Sudan-sahel zone  
Dossou-Yovo, E.R., Zwart, S.J., Kouyaté, A., Ouédraogo, I., Bakare, O.

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Cellular Automata Markov method, an approach for rice self-sufficiency projection  
Sutrisno, D., Ambarwulan, W., Nahib, I., (...), Windiastuti, R., Kardono, P.

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Spatio-temporal analysis of rice field phenology using Sentinel-1 image in Karawang Regency West Java, Indonesia  
Supriatna, Rokhmatuloh, Wibowo, A., (...), Pratama, G.P., Gandharum, L.

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Devia, C.A., Rojas, J.P., Petro, E., (...), Rebolledo, M.C., Colorado, J.

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Light-guide snapshot imaging spectrometer for remote sensing applications  
Wang, Y., Pawlowski, M.E., Cheng, S., (...), Alexander, D., Tkaczyk, T.S.

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Application on remote sensing survey of abandoned farmlands in winter along the Huaihe River based on GF-1 image  
Ma, S., Pei, Z., Wang, F., (...), Liu, M., Lou, J.

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Analyzing the performance of the first derivative fluorescence spectrum for estimating leaf nitrogen concentration  
Yang, J., Du, L., Gong, W., (...), Sun, J., Chen, B.

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Lu, J., Yang, T., Su, X., (...), Cao, W., Tian, Y.

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Paddy field mapping using UAV multi-spectral imagery  
Rokhmatuloh, Supriatna, Pin, T.G., (...), Shidiq, I.P.A., Wibowo, A.

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**Application of thermal imaging and hyperspectral remote sensing for crop water deficit stress monitoring**  
Krishna, G., Sahoo, R.N., Singh, P., (...), Pal, M., Chinnusamy, V.

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Suitability mapping for rice cultivation in Benue State, Nigeria using satellite data  
Ujoh, F., Igbawua, T., Ogidi Paul, M.

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Classification of rice heavy metal stress levels based on phenological characteristics using remote sensing time-series images and data mining algorithms  
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Validation of DSSAT-CERES model for rice and wheat crops with field and MODIS derived data in Haryana, India  
Rana, M., Singh, K.K., Kumari, N.

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Moreno-García, B., Casterad, M.A., Guillén, M., Quílez, D.

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Hyperspectral discrimination of foliar biotic damages in rice using principal component analysis and probabilistic neural network

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**Mapping rice planted area using a new normalized EVI and SAVI (NVI) derived from landsat-8 OLI**  
Li, P., Xiao, C., Feng, Z.  
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Accuracies achieved in classifying five leading world crop types and their growth stages using optimal earth observing-1 hyperion hyperspectral narrowbands on Google Earth Engine  
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**Mapping paddy rice using a Convolutional Neural Network (CNN) with Landsat 8 datasets in the Dongting Lake Area, China**  
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**Mapping crop calendar events and phenology-related metrics at the parcel level by object-based image analysis (OBIA) of MODIS-NDVI time-series: A case study in central California**  
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Optimizing a remote sensing production efficiency model for macro-scale GPP and yield estimation in agroecosystems  
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**Rice Planting Area Extraction Based on Multi-source Data Fusion**  
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**Classification Method by Fusion of Decision Tree and SVM Based on Sentinel-2A Image**  
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 Veettil, B.K., Quang, N.X.

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 Uncertainties of potentials and recent changes in global yields of major crops resulting from census- and satellite-based yield datasets at multiple resolutions  
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 Design of a spatial sampling scheme considering the spatial autocorrelation of crop acreage included in the sampling units  
 WANG, D., ZHOU, Q.-B., YANG, P., CHEN, Z.-X.

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Satellite imagery for classification of rice growth phase using freeman decomposition in Indramayu, West Java, Indonesia  
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Partial least square discriminant analysis based on normalized two-stage vegetation indices for mapping damage from rice diseases using planetscope datasets  
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Optical characterization of Chinese hybrid rice using laser-induced fluorescence techniques—laboratory and remote-sensing measurements  
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Rath, S.S., Panda, J., Annadurai, R., Nanda, S.

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Setiyono, T.D., Quicho, E.D., Gatti, L., (...), Khan, N.I., Holecz, F.

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