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PhD 2009, Iowa State University
MS 2005, Denmark Technical University
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Recent Papers

TU Rehman, J Jin. 2022. Deep adversarial domain adaptation for hyperspectral calibration model transfer among plant phenotyping systems. Biosystems Engineering 224, 246-258.

MY Lin, V Lynch, D Ma, H Maki, J Jin, M Tuinstra. 2022. Multi-Species Prediction of Physiological Traits with Hyperspectral Modeling. Plants 11 (5), 676.

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D Ma, TU Rehman, L Zhang, H Maki, MR Tuinstra, J Jin. 2021. Modeling of Environmental Impacts on Aerial Hyperspectral Images for Corn Plant Phenotyping. Remote Sensing 13 (13), 2520.

M Fernández-Campos, YT Huang, MR Jahanshahi, T Wang, J Jin, DEP Telenko, C Góngora-Canul, CD Cruz. 2021. Wheat spike blast image classification using deep convolutional neural networks. Frontiers in Plant Science 12, 1054.

D Ma, TU Rehman, L Zhang, H Maki, MR Tuinstra, J Jin. 2021. Modeling of diurnal changing patterns in airborne crop remote sensing images. Remote Sensing 13 (9), 1719.

Z Chen, J Wang, T Wang, Z Song, Y Li, Y Huang, L Wang, J Jin. 2021. Automated in-field leaf-level hyperspectral imaging of corn plants using a Cartesian robotic platform. Computers and Electronics in Agriculture 183, 105996.

Z Song, W Qiu, J Jin. 2021. MISIRoot: A Robotic, Minimally Invasive, in Situ Imaging System for Plant Root Phenotyping. Transactions of the ASABE 64(5), 1647-1658.

D Ma, H Maki, S Neeno, L Zhang, L Wang, J Jin. 2020. Application of non-linear partial least squares analysis on prediction of biomass of maize plants using hyperspectral images. Biosystems Engineering 200, 40-54.

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TU Rehman, L Zhang, D Ma, L Wang, J Jin. 2020. Calibration transfer across multiple hyperspectral imaging-based plant phenotyping systems: I–Spectral space adjustment. Computers and Electronics in Agriculture 176, 105685.

MF Campos, YT Huang, T Wang, S Das, MR Kabir, J Jin, BS Valent, MR Jahanshahi, CD Cruz. 2020. Deep convolutional neural networks and epidemiological criteria to support breeding tactics against the wheat blast disease. Plant Health 2020 Online.

TU Rehman, L Zhang, L Wang, D Ma, H Maki, JA Sánchez-Gallego, MV Mickelbart, J Jin. 2020. Automated leaf movement tracking in time-lapse imaging for plant phenotyping. Computers and Electronics in Agriculture 175, 105623.

Recent Patents

J Jin, L Wang, J Wang, Y Li. PHENOTYPING IMAGING SYSTEM WITH AUTOMATIC LEAF-HANDLING MECHANISM. 2022. US Patent App. 17/736,758.

J Jin. Referencing system. 2021. US Patent App. 17/239,686.

J Jin. Referencing system. 2021. US Patent 11,017,563.

J Jin, W Qiu, Z Song, L Wang. Root imaging device. 2021. US Patent App. 16/923,045.

J Jin. 2020. Smartphone lens system attachment. US Patent 10,876,957.