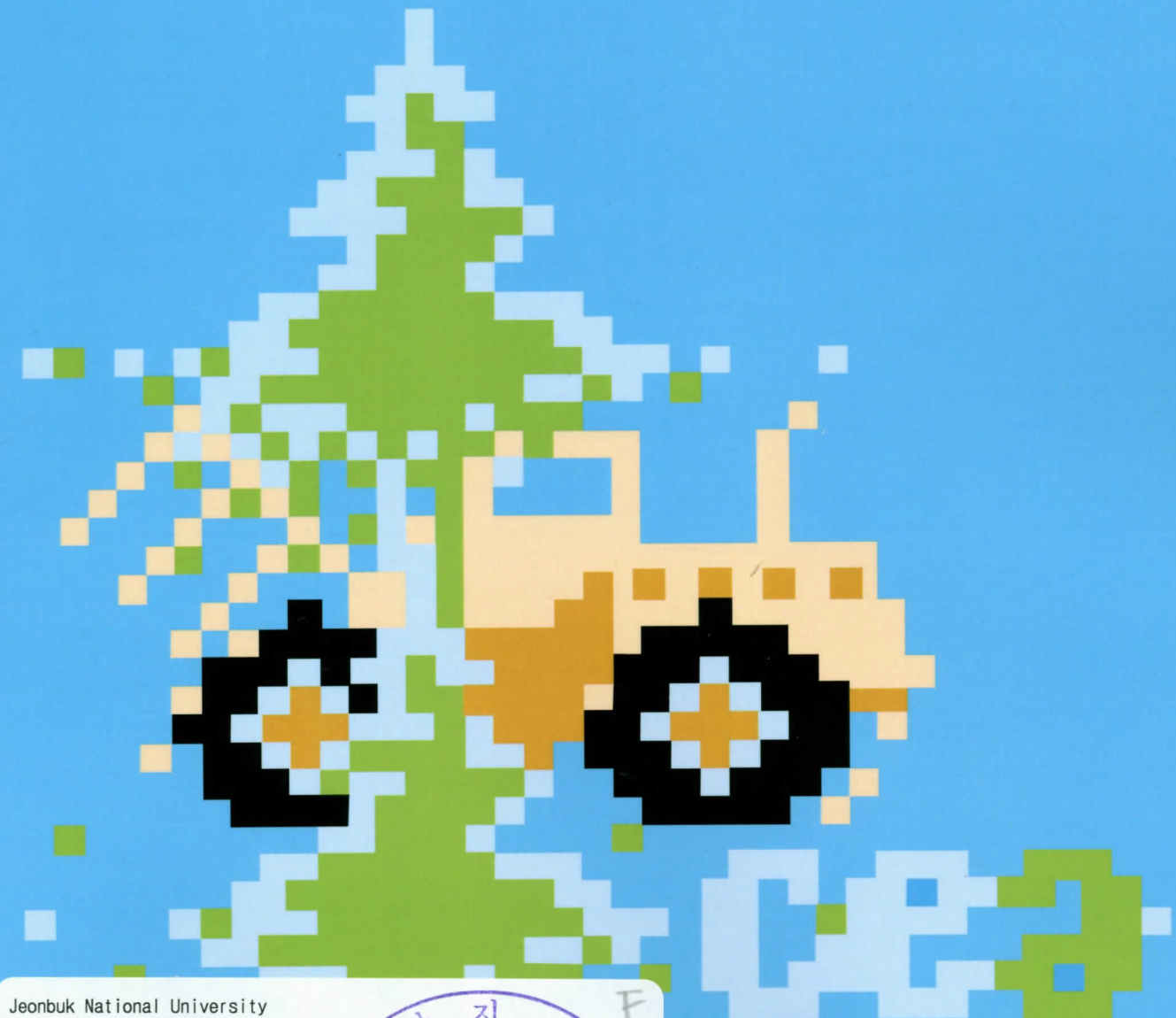


Volume 187, August 2021

ISSN 0168-1699

Computers and electronics in agriculture



Jeonbuk National University

ISSN : 0168-1699

Computers and Electronics in Agriculture

VOL. 2021 NO. 187

 WILL JOURNAL INC.



0168-1699(202108)2021:187:1-W



Abstracted/indexed in: *Agricola database, Agricultural Engineering Abstracts, Biological Abstracts, Computer & Control Abstracts, Computer and Information Systems Abstracts Journal, Current Contents (Agricultural Science), Electrical & Electronics Abstracts, EMBiology, Engineering Index, Geobase, Geographical Abstracts, Human Geography. Also covered in the abstract and citation database Scopus®. Full text available on ScienceDirect®.*

Full Length Articles

- | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| Data fusion of visible near-infrared and mid-infrared spectroscopy for rapid estimation of soil aggregate stability indices
E. Afriyie, A. Verdoodt and A.M. Mouazen (Belgium) | 106229 | Design of an intelligent vibration screening system for armyworm pupae based on image recognition
J. Hu, Z. Ren (PR China), J. He, Y. Wang (Belgium), Y. Wu and P. He (PR China) | 106189 |
| Real-time recognition system of soybean seed full-surface defects based on deep learning
G. Zhao, L. Quan, H. Li, H. Feng, S. Li, S. Zhang and R. Liu (China) | 106230 | Automated monitoring and analyses of honey bee pollen foraging behavior using a deep learning-based imaging system
T.N. Ngo, D.J.A. Rustia, E.-C. Yang and T.-T. Lin (ROC) | 106239 |
| Improving reference evapotranspiration estimation using novel inter-model ensemble approaches
M.Y. Chia, Y.F. Huang and C.H. Koo (Malaysia) | 106227 | 3D global mapping of large-scale unstructured orchard integrating eye-in-hand stereo vision and SLAM
M. Chen, Y. Tang, X. Zou, Z. Huang, H. Zhou and S. Chen (China) | 106237 |
| An evolutionary approach to robot scheduling in protected cultivation systems for uninterrupted and maximization of working time
D.D. Uyeh, T. Pamulapati, R. Mallipeddi, T. Park, S. Woo, S. Lee, J. Lee and Y. Ha (Republic of Korea) | 106231 | Spatialized system to monitor vine flowering: Towards a methodology based on a low-cost wireless sensor network
F. Fuentes-Peñailillo, C. Acevedo-Opazo, S. Ortega-Farías, M. Rivera and N. Verdugo-Vásquez (Chile) | 106233 |
| Detecting sheep in UAV images
F. Sarwar, A. Griffin (New Zealand), S.U. Rehman (Australia) and T. Pasang (United States) | 106219 | A deep learning-based method for screening soil total nitrogen characteristic wavelengths
Y. Wang, M. Li, R. Ji, M. Wang and L. Zheng (China) | 106228 |
| Tracking the spatio-temporal change of planting area of winter wheat-summer maize cropping system in the North China Plain during 2001–2018
J. Li and H. Lei (China) | 106222 | Design and experiment of a GPS-based turn compensation system for improving the seeding uniformity of maize planter
X. He, D. Zhang, L. Yang, T. Cui, Y. Ding and X. Zhong (China) | 106250 |
| A sound-based positioning system with centimeter accuracy for mobile robots in a greenhouse using frequency shift compensation
Z. Huang, T. Shiigi, L.W.J. Tsay, H. Nakanishi, T. Suzuki, Y. Ogawa and K. Naoshi (Japan) | 106235 | A new method for measuring vegetation indices based on passive light source
Y. Ding, X. Wu, H. Yu, Y. Jiang, Z. Liu and X. Dou (China) | 106238 |
| Optimization of process parameters and numerical modeling of heat and mass transfer during simulated solar drying of paddy
A. Jha and P.P. Tripathy (India) | 106215 | Measurement of potentially toxic elements in the soil through NIR, MIR, and XRF spectral data fusion
F. Li, L. Xu, T. You and A. Lu (China) | 106257 |
| Self-organizing map estimator for the crop water stress index
N. Kumar (India), R. Rustum (United Arab Emirates), V. Shankar (India) and A.J. Adeloye (United Kingdom) | 106232 | An industrial-grade solution for agricultural image classification tasks
Y. Peng and Y. Wang (PR China) | 106253 |
| AHMoSe: A knowledge-based visual support system for selecting regression machine learning models
D. Rojo, N.N. Htun (Belgium), D. Parra (Chile), R. De Croon and K. Verbert (Belgium) | 106183 | On the application of radio planning tools in open environments for the improvement of autoguidance systems used in precision agriculture
M. Fernández de Sevilla, Ó. Gutiérrez, J. Gómez, A. Tayebi, Á. Álvarez and F. Sáez de Adana (Spain) | 106258 |
| Using machine learning techniques to predict liquid dairy manure temperature during storage
R.A. Genedy and J.A. Ogejo (USA) | 106234 | A trisyllable-formant model for automatic recognition of call types of laying hens
X. Du (China, Belgium), G. Teng, C. Wang (China), L. Carpentier and T. Norton (Belgium) | 106221 |

[continued on inside back cover]

