

Publications

1. O. Hamila, S. Ramanna, C. J. Henry, S. Kiranyaz, R. Hamila, R. Mazhar, T. Hamid. Fully automated 2D and 3D convolutional neural networks pipeline for video segmentation and myocardial infarction detection in echocardiography [Engineering Tools and Applications in Medical Imaging](#), 2022
2. S. Mostafa, D. Mondal, M. A. Beck, C. P. Bidinosti, C. J. Henry, I. Stavness. Leveraging Guided Backpropagation to Select Convolutional Neural Networks for Plant Classification [Frontiers in Artificial Intelligence](#), 2022
3. S. Mostafa, M. A. Beck, C. P. Bidinosti, C. J. Henry, I. Stavness. Visualizing Feature Maps for Model Selection in Convolutional Neural Networks [CVPPA](#), 2021.
4. M. A. Beck, C.-Y. Liu, C. P. Bidinosti, C. J. Henry, C. M. Godee, and M. Ajmani. An extensive lab- and field-image dataset of crops and weeds for computer vision tasks in agriculture. [Cyverse Dataset](#), <https://doi.org/10.25739/rwcw-ex45>, 2021.
5. M. A. Beck, C.-Y. Liu, C. P. Bidinosti, C. J. Henry, C. M. Godee, and M. Ajmani. An extensive lab- and field-image dataset of crops and weeds for computer vision tasks in agriculture. 7th Workshop on Computer Vision in Plant Phenotyping and Agriculture [CVPPA](#), 2021.
6. M. A. Beck, C.-Y. Liu, C. P. Bidinosti, C. J. Henry, C. M. Godee, and M. Ajmani. Presenting an extensive lab- and field-image dataset of crops and weeds for computer vision tasks in agriculture. arXiv [2108.05789](#), 2021.
7. M. A. Beck, C.-Y. Liu, C. P. Bidinosti, C. J. Henry, C. M. Godee, and M. Ajmani. An embedded system for the automated generation of labeled plant images to enable machine learning applications in agriculture. [PLOS One](#), 2020.
8. M. A. Beck, C.-Y. Liu, C. P. Bidinosti, C. J. Henry, C. M. Godee, and M. Ajmani. Weed seedling images of species common to Manitoba, Canada [Dryad Dataset](#), 2020
9. M. A. Beck EAGL-I: Embedded Autonomous Generator of Labeled Images [Presentation at Phenome](#), 2020