UEMtomaton: Software for automating image acquisition in electron microscope

Software files for automating image acquisition in TEM

Technology No. 2021-040

IP Status: Copyright

Applications

- Automation in ultrafast electron microscopy

Technology Overview

Prof. David Flannigan's research group at the University of Minnesota have developed UEMtomaton: software modules for enabling communication between an optical delay stage and a digital camera mounted on an electron microscope. The software enables automation of image acquisition with ultrafast electron microscopes through user-defined parameters. This approach is simple, robust and portable for machines using the same equipment. Using this automation software will reduce experiment time, manual intervention, and user error.

Related software: UEMview

Phase of Development

TRL: 8-9
Fully functional software.

Software is available on GitHub.

Desired Partnerships

This technology is now available for:
- License

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Researchers

- **[David Flannigan, PhD](#)** Associate Professor, Chemical Engineering and Material Science

https://license.umn.edu/product/software-for-automating-image-acquisition-in-electron-microscope