

Automatic CV Quantification

Diana Horangic

Reasons for development

- Large amount of CV data, few number of chemists with time to spend
- Uncertainty introduced into the analysis process by hand-analyzing work... Automation presents an interesting opportunity to standardize this analysis
- It has never been done before!

Possibilities for the future

- The software may allow a future of AMBITIOUS, LARGE-SCALE experiments using CV (if there is industry interest in that!)
 - Ability to test multiple independent variables during your experiment across multiple setups and operators (important – we found operator dependence!) and process thousands or HUNDREDS of thousands of these voltammograms
- Ability to average reduction area results across multiple trials for the same re-occurring reduction dip and generate user-friendly Excel sheet
- No machine learning or deep learning AT ALL! Quick, doesn't need to be trained on a huge dataset, doesn't take up a lot of space, and can be used by individuals to build datasets for ML/DL