Ergot detection slide show



Detection of ergot in cereals
by hyperspectral NIR imaging
CONffIDENCE – WP4a
Ph. Vermeulen - V. Baeten (CRA-W)

CONffIDENCE OpenDay 2011 Prague, 3 November 2011









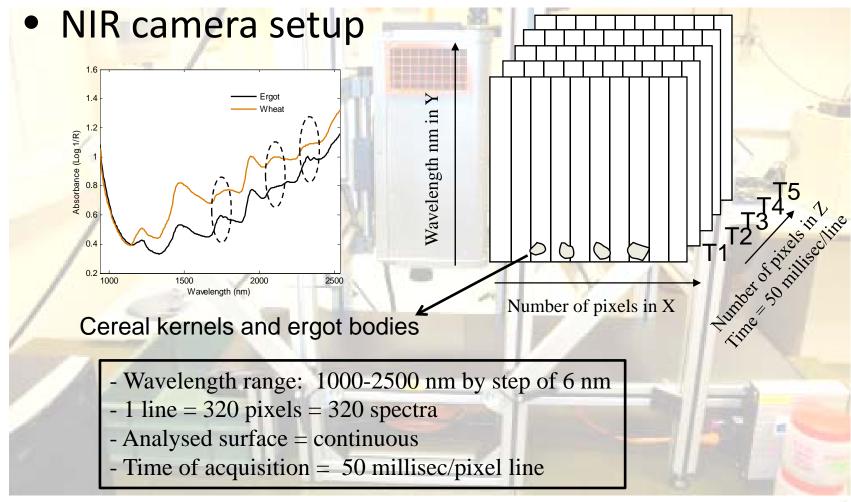


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NIR line scan camera: features

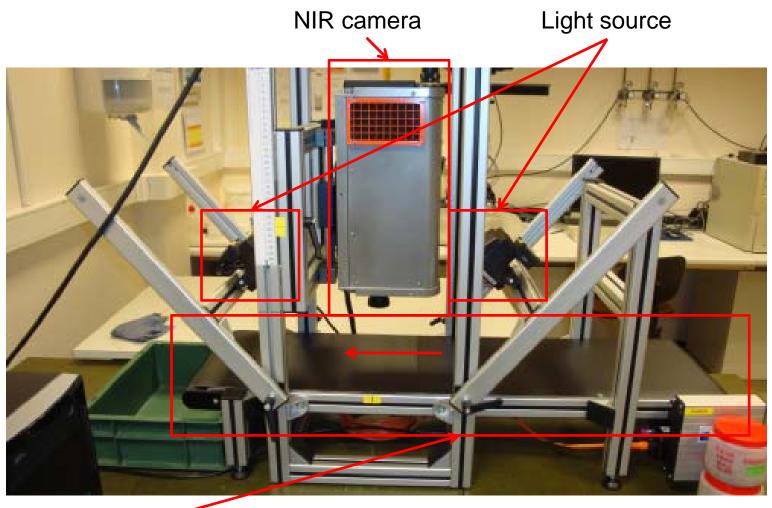






NIR line scan camera: instrument





Conveyor belt



NIR line scan camera: analysis



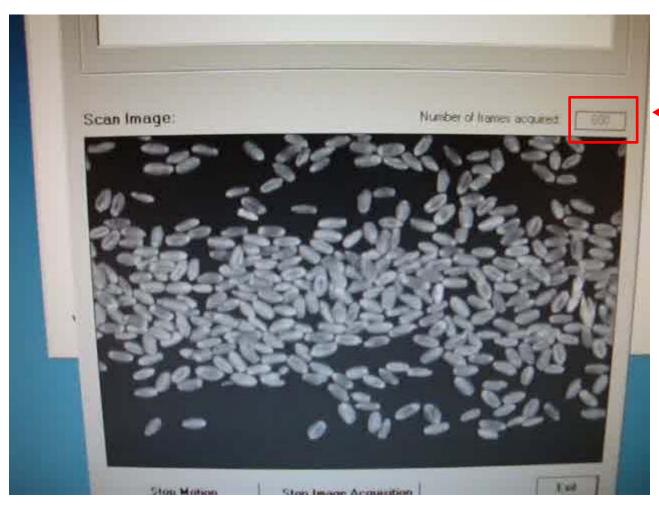








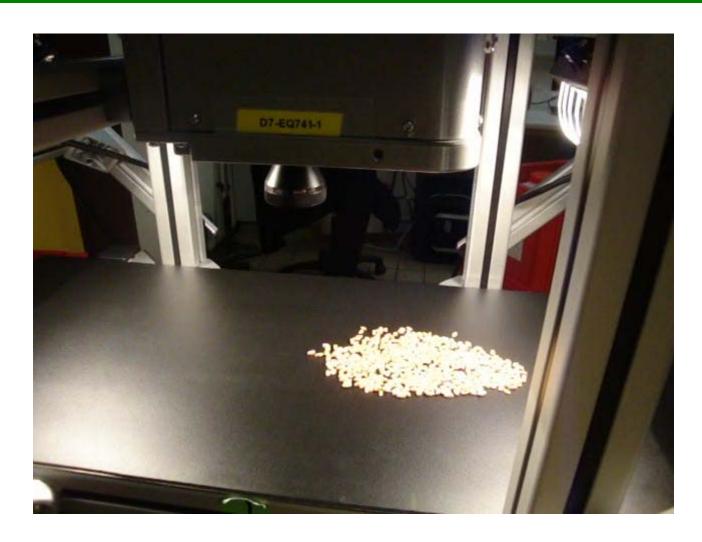
Number of frames acquired





Analysis and on-line prediction

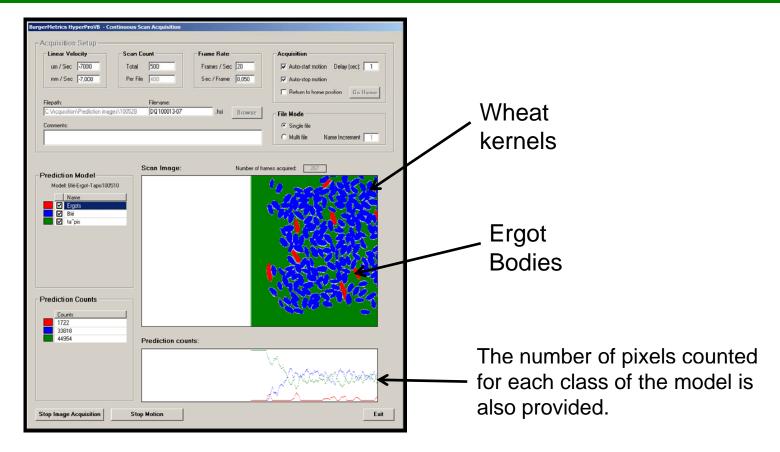








Ergot detection in wheat by NIR imaging

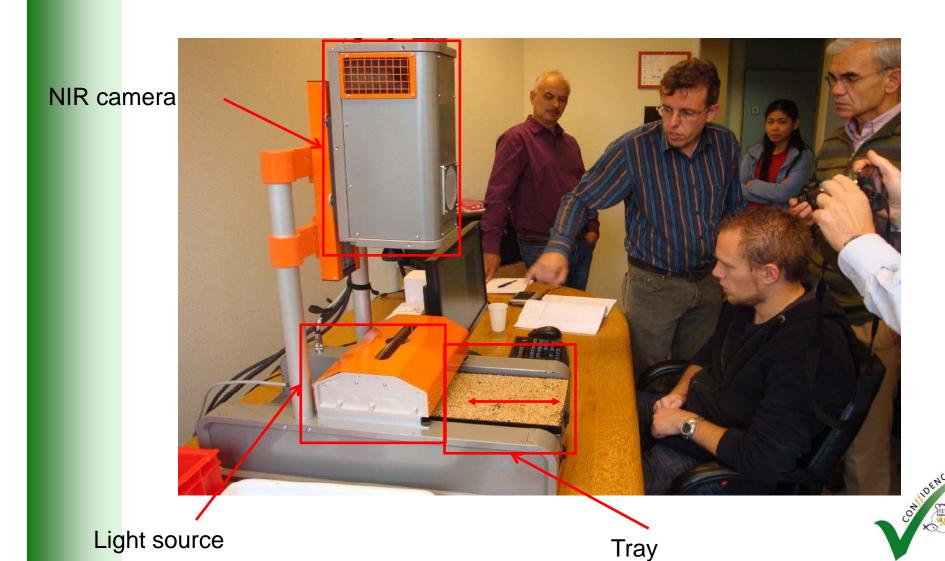


Analytical parameters used and on-line prediction results of the PLSDA (Partial Least Squares Discriminant Analysis) model



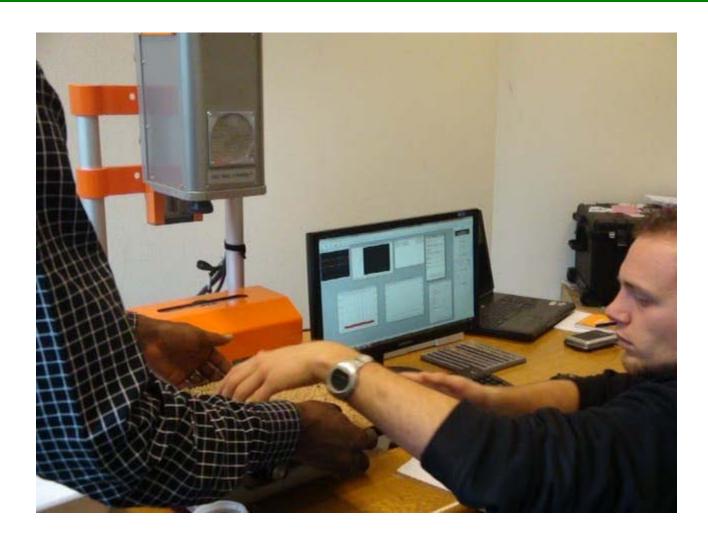
NIR line scan camera: instrument in demonstration at NUTRECO





NIR line scan camera: analysis







NIR line scan camera: acquisition

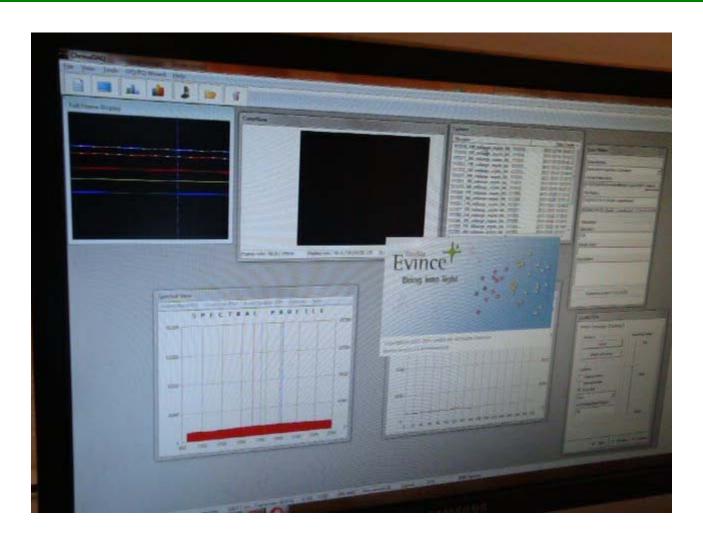








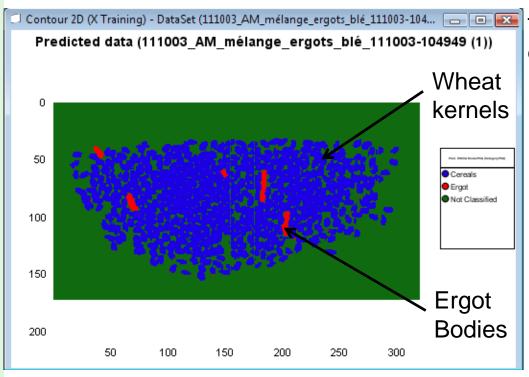






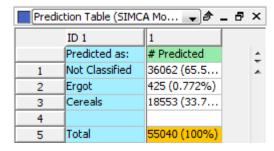


Ergot detection in wheat by NIR imaging

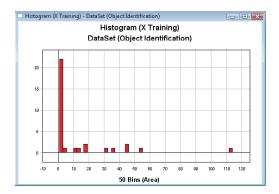


Prediction results of the SIMCA (Soft Independent Method of Class Analogy) model

The number of pixels counted for each class of the model and ...



... the distribution of groups of pixels detected as ergot are also provided.





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More information

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