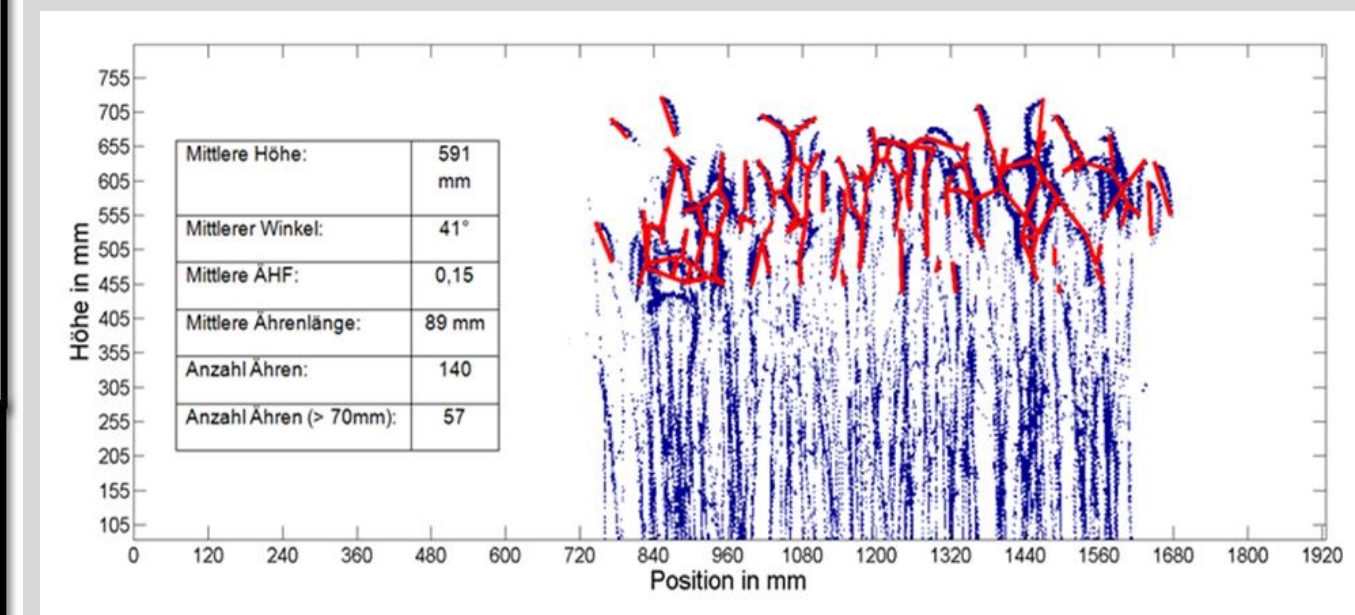
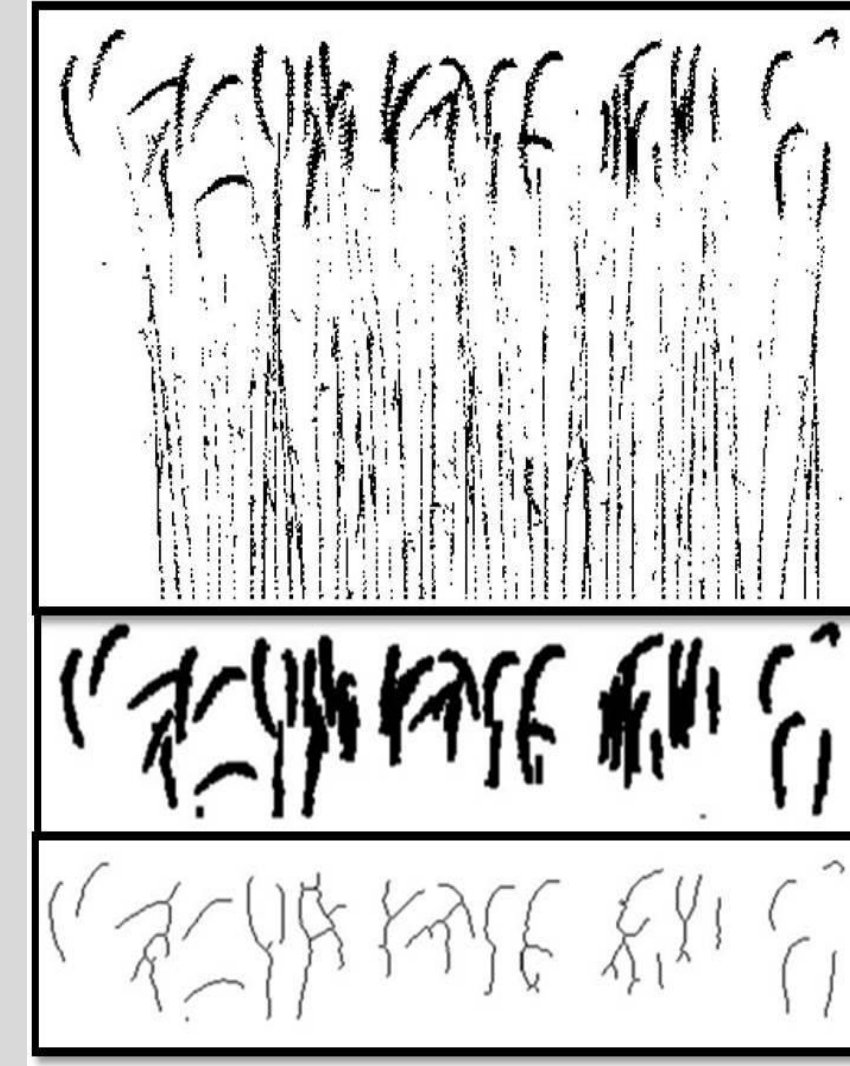



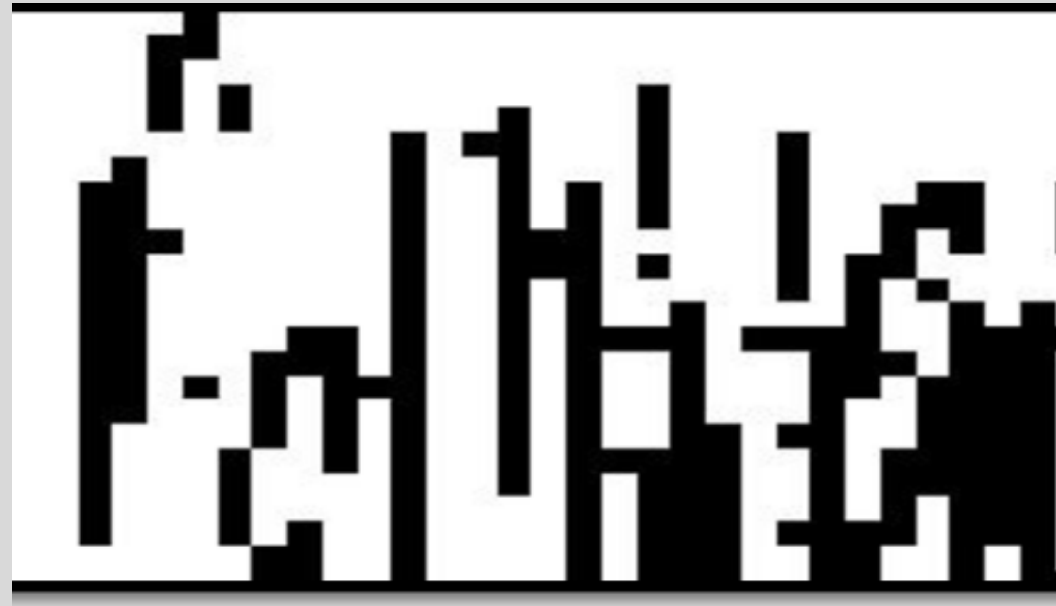
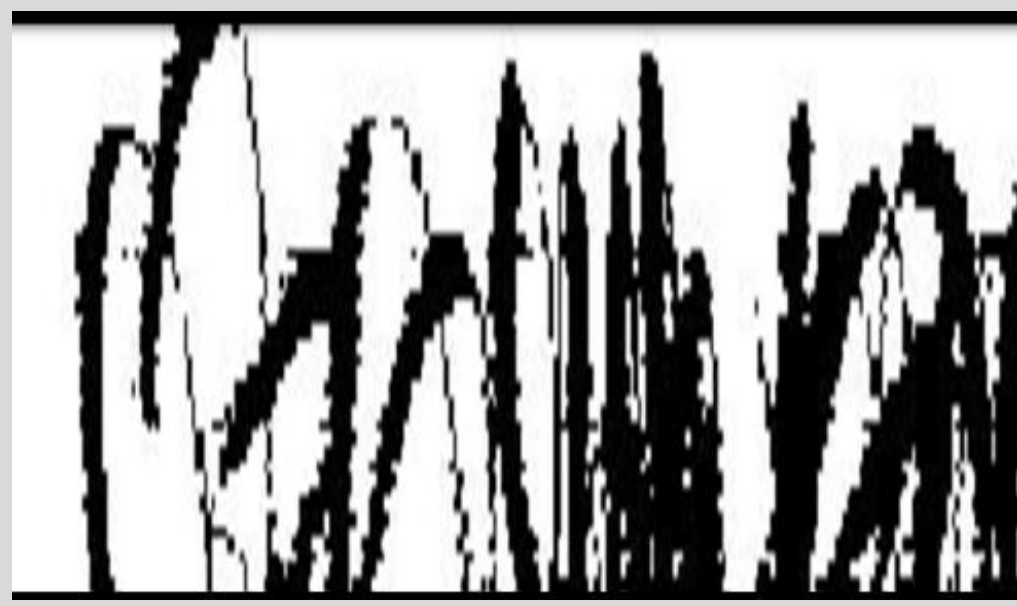

Imaging light barrier sensors for detection of plant height, ears and awns

Application for light barrier sensors




- Calculation of plant parameters with semi-automatic and automatic methods
- Preparation of the raw data by morphological image processing
- Detection and skeletonization of the ears area
- Detection of overlapping



Light barrier sensor systems

Manufacturer	Leuze	Sitronic	iotec
Resolution	5 mm	2.5 mm	0.064 mm
Measuring frequency	300 Hz	330 Hz	4000 Hz
Product	Konturflex	InfraScan	OEOS
			
Visible plant characteristics	Rough plant shape	Stalks and ears identifiable	Stalks, ears and awns identifiable

Platforms for light barrier sensors

Outdoor	Outdoor	Indoor
		
BoniRob field robot	BreedVision multi-sensor platform	Laboratory test stand