Program for the NBPPN Workshop, November 21st-22nd



Location: Hotel Skansen Båstad, Sweden

Title: Use and Interpretation of Crop Phenotyping Data for Agriculture

Participants: NBPPN members and others interested in the use and interpretation of crop phenotyping data for agriculture.

Fee: Participation is free of charge for NBPPN members— attendees are responsible for their own transport and accommodation.

There will be a participation fee for non-members of 2.500 DKK.

Format: Keynote speakers, oral presentations with one session from all six representing countries (Norway, Sweden, Denmark, Finland, Estonia, Lithuania), poster sessions, a tech corner, and writing group meetings.

Organisers: The NBPPN Steering Committee

About NBPPN: The NBPPN was founded as an independent organization in 2015, originally as part of the public-private partnership project entitled "6P: Nordic Public Private Partnership Plant Phenotyping," funded by a Nordic Council grant until December 31, 2023. As of February 1, 2024, the network will continue as a membership-based organization. NBPPN aims to promote, enable, and enhance the exchange of research and innovation in plant/crop sensing and phenotyping among technology providers, plant breeders, agricultural advisors, industries, and research institutions in the Nordic and Baltic regions.

Thursday 21 November		
09:30-09:50	Workshop registration and coffee	
09:50-10:00	Official Welcome	Svend Christensen
10:00-10:45	Ioannis N. Athanasiadis, Professor and Chair of Artificial Intelligence, Wageningen University and Research, The Netherlands, "Artificial intelligence in plant phenotyping – towards end-to-end modelling".	
10:45-11:00	Coffee break	
11:00-11:30	Abozar Nasirahmadi, SLU: "Generative AI for plant identification and phenotyping- use case in Rangeland monitoring"	11:00 - 12:00 Session 1 (Chair: Erik Alexandersson- Swedish University of Agricultural Sciences): Oral Presentations
11:30-12:00	Adrian Gustafson, LU: "Realising the perennial vision – measurements and modelling"	11:00 - 12:00 Session 1 (Chair: Erik Alexandersson- Swedish University of Agricultural Sciences): Oral Presentations
12:00-13:00	Lunch	
13:00-14:30	Tech Corner & Poster Session Interactive sessions for technology demonstrations and poster presentations	
14:30-15:00	Dr Juho Hautsalo, Natural Resources Institute Finland: "Experiences from appliance of drones in practical research projects at Natural resources institute Finland"	14:30 - 15:30 Session 2 (Chair: Kristiina Himanen- University of Helsinki): Oral Presentations
14:30-15:00	Sylvain Poque, University of Helsinki, National Plant Phenotyping Infrastructure: "European efforts for phenomics data management "	14:30 - 15:30 Session 2 (Chair: Kristiina Himanen- University of Helsinki): Oral Presentations
15:30-15:45	Coffee Break	
15:45-16:15	Shirin Mohammadi, NMBU: "Phenotyping of faba bean agronomical traits and disease classification based on RGB and multispectral cameras"	15:45 - 16:45 Session 3 (Chair: Morten Lillemo- Norwegian University of Life Science): Oral Presentations
15:30-16:00	Mallikarjuna Rao Kovi, NMBU: "Estimation of nitrogen use efficiency and yield in perennial ryegrass using RGB, multispectral cameras and LiDAR sensors"	15:45 - 16:45 Session 3 (Chair: Morten Lillemo- Norwegian University of Life Science): Oral Presentations
16:45-17:00	Coffee Break	
17:00-17:30	Rita Armonienė, Dr. Head of the Laboratory of genetic and Physiology: "Freezing Tolerance in the Nordic-Baltic	17:00 - 18:00

	Region: A Vital Trait for the Survival of Overwintering Crops."	Session 4 (Chair: Gintaras Brazauskas - Lithuanian Research Centre for Agriculture and Forestry): Oral Presentations
17:30-18:00	Birutė Frercks , Dr. Head of the Department of Orchard Plant Genetics and Biotechnology: "Phenotyping of plants and its whole-community: who plays the crucial role in horticulture?"	Session 4 (Chair: Gintaras Brazauskas - Lithuanian Research Centre for Agriculture and Forestry): Oral Presentations
19:00-open end	Dinner	Location: Hotel Skansen in Båstad - Restaurant Sand

	Friday 22 November	
08:30-09:15	Filippo Biscarini, Senior Research Scientist, National Research Council (CNR), Milan (Italy): "Computer vision for plant phenotyping: the Polyploidbreeding 4.0 project and the AGRI-VISION initiative"	
09:15-09:30	Coffee break	
09:30-10:00	Ainar Härm, METK:" UAV remote sensing application in METK for phenotyping and crop monitoring: a brief overview of past challenges and future considerations"	09:30 - 10:30 Session 5 (Chair: ?): Oral Presentations
11:30-12:00	Merko Kärp, METK: "Exploitation of agrometeorological data in crop breeding"	09:30 - 10:30 Session 5 (Chair: ?): Oral Presentations
10:30-10:45	Coffee break	
10:45-11:15	Andreas Bergmann, KU: "Reliability of Crop Height Estimations from UAV Imagery"	10:45 - 11:45 Session 6 (Chair: Svend Christensen- University of Copenhagen): Oral Presentations
11:15-11:45	Chandana Pandey, KU: "Assessment of the impact of drought stress on barley resistance against fungal pathogens by high-throughput multispectral, microscopic and physiological phenotyping"	10:45 - 11:45 Session 6 (Chair: Svend Christensen- University of Copenhagen): Oral Presentations
11:45-12:00	Closing Remarks and Farewell	Svend Christensen-
12:00-12:45	Lunch	
12:45-14:45	Writing Group Meetings- Interactive sessions for collaborative writing	