



6-7-8 July 2020 Angers France

Hackaton plant phenotyping with minicomputers and low-cost cameras

Content: A short participative workshop oriented toward practical aspects of plant phenotyping with inexpensive, yet robust, minicomputers coupled to small cameras. Each important step, from system installation, network deploying, time lapse acquisition, image processing, machine learning and data analysis will be illustrated with talks and hands on. The target audience is tech-minded biologists, engineers in charge of phenotyping trials from academic or private companies

Location and program: IRHS, 42 rue Georges Morel, Beaucouzé, Pays de la Loire, France

Day 1: 9H-12H Time lapse acquisition; 13H-17H Pre-Processing Time lapse image sequence. 17H-19H Launching of a time lapse over a network of minicomputers.

Day 2: 9H-12H Course Machine learning for plant growth analysis ; 13H-17H Hands on machine learning for plant growth analysis ; 17H-19H : show case of industrial and home-made solutions.

Day 3: 8H-12H Example of Plant research with Minicomputers and low-cost cameras ; 14H-16H visit of PHENOTIC platform.

Invited speakers: Noah FAHLGREN (Danforth center, USA), Sotirios TSAFTARIS (Edinburg University, UK) , Sebastian SCHULTHEISS (Computomics, Germany), Barna KERESZTES (IMS Lab, CNRS, France) , Julia BUTINK (INRAE, Angers, France)

Organizers: David ROUSSEAU (Université d'Angers, France), Pejman RASTI (ESAIP, France)

Local team: Hadhami GARBOUGE, Mouad El ZINE ABIDINE, David PIERRE, Geoffroy COUASNET, Mathis CORDIER, Julien GARNIER, Félix MERCIER, Chafik LEKOUARA

Registration procedure: 300 euros including coffe breaks, lunch, gala dinner, access to minicomputers, GPU programming station for machine learning, teaching material.

Registration before 26 June 2020 at <https://forms.gle/48gF7pja6M69WW3L6>

Payment before 26 June 2020 by orderform followed by banktransfer at missions-irhs@inrae.fr.

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