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EDITOR'S ADDRESS

Dear readers,
I'm honored to present to you the first issue of the newsletter devoted to the FAIRNESS COST Action.

Newsletters have the role of showing and spreading the Action's features and deliverables.

In this first issue, we are pleased to introduce you to the action chair Branislava Lalić and action vice chair Josef Eitzinger and with ongoing activities in Action.

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ABOUT FAIRNESS

The FAIRNESS action intends to improve standardization and integration between databases/sets of micrometeorological measurements that are part of research projects or local/regional observational networks established for special purposes (agrometeorology, rural and urban microclimate monitoring and others).

Addressing identified challenges requires an effective transboundary network of researchers, stakeholders (extension services and environmental agencies, local authorities and ministries, SME) and civil society (specialized and general public) from Europe and beyond to identify and fill knowledge gaps, standardize, optimize and promote new environmental-tailored measurement and control procedures, enhance research effectiveness and improve dissemination.



Chair

*Branislava Lalić, University of Novi Sad,
Faculty of Agriculture, Novi Sad, Serbia*

BIOGRAPHY

Prof. Dr Branislava Lalić has long experience in the dynamical modelling of biophysical processes and the development of biometeorological models. She has a BSc in Physics, but during her postgraduate and PhD studies, she focused on modelling physical processes describing biosphere-atmosphere interaction and their implementation in numerical weather prediction and agrometeorological models.

Dear readers,

It gives me great pleasure to present the current state of activities of FAIRNESS Cost action and share our future plans. Promoting the involvement and collaboration of young scientists, fostering interactions among them and experienced researchers and experts, and facilitating connections between institutions in the realm of micrometeorological applications and data management constitute the primary objectives of FAIRNESS Cost action.

Through our active members' collective efforts and collaboration, we have successfully completed the first year and a half of activities. This milestone has provided us with invaluable experience and a wealth of knowledge. Together, we have harnessed the potential of FAIRNESS Action, pooling our expertise in micrometeorological applications and data management. The joint commitment and enthusiasm demonstrated have been instrumental in achieving our shared goals. Our journey as a united team promises even greater accomplishments ahead.

Below find the list of ongoing activities and links for contributing:

– building infrastructure & rising awareness

- Where are micromet data? → Inventory of available datasets and experts
<https://docs.google.com/spreadsheets/d/1aY04DA1lakEaw1qDiW8ByT29PAYqYxt/edit#gid=169616475>
- How to make your data FAIR? → We designed FAIRness wizard
https://www.fairness-ca20108.eu/micromet_ksp/
- Do you want to improve your micrometeorological data-related transferable skills? → Let us know more using our Transferrable skill questionnaire:
<https://www.fairness-ca20108.eu/transferable-skill-questionnaire/>
- How to design and setup micrometeorological experiment, select sensors, manage data?
→ Whether you are beginner or professional you are welcome to join our team working on “Guideline for future good practices in micrometeorological measurement methods, data assimilation and indices” [contact: josef.eitzinger@boku.ac.at].

Next steps [you are welcome to join]

- Expand network of networks → Join us with your (meta)data! [WG1]
- Put FMP in full force → Let’s register and “become friendly” with FMP! [WG2]
- Enhance transferrable skill training → Join as a student, trainer or tool developer! [WG2]
- Work on “Guideline ...” is accelerating
→ Join us to read, write, review, re-write and finalized it to be used in practice for different levels of implementation complexity. [WG4]



Vice Chair

*Josef Eitzinger, Institute
of Meteorology and
Climatology, University
of Natural Resources
and Life Sciences
(BOKU), Vienna,
Austria*

BIOGRAPHY

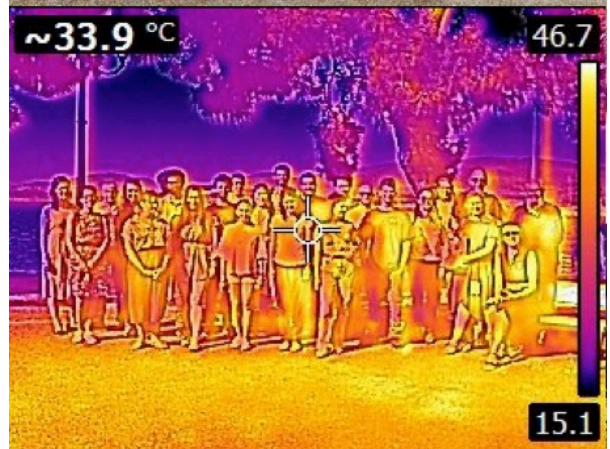
The main area of teaching and research of Prof. Dr. Josef Eitzinger is in the field of Agrometeorology. Primary areas of investigation include Climate change impacts and adaptation in agriculture, crop modelling, agrometeorological measurements and assessment, mitigation and monitoring of abiotic and biotic risks in agriculture (e.g. drought and pest monitoring for agricultural crops). His research combines subjects such as crop growth processes, agricultural productivity, microclimatic modification options in agriculture (e.g. Agroforestry, soil cultivation), environmental resource (soil, water) management and impact assessment.

According to the plan, the Action Members initiated in the first year several ongoing activities in order to produce scientific papers, a handbook (Guide) for beginners as well as several dissemination activities, related to the four different Work Packages. FAIRNESS is in its second year now and already completed a few training events (one Summer School and one topical workshop) and several Work Group meetings (see more details at FAIRNESS website www.fairness-ca20108.eu).

Summer School 1, for example, entitled “Filling common gaps in measured data”, held in Volos, Greece in June 2022, was a first Highlight and exciting experience for trainers as well as 35 participating and supported trainees. The training included the identification and overcoming of common gaps in measured micrometeorological data sets and how to avoid gaps or errors in data sets through the proper organization of measurements, data assimilation, and management. Practical hand-on training on instruments, measurement systems and data logging was carried out to raise awareness for the various potential problems which could occur during measurements and may affect quality of measured data. A number of high-level professional lectures from experienced micrometeorologists, which are available for a wider dissemination at the FAIRNESS

website, provided insights in the basics of microclimatic measurements, application-oriented problems and solutions as well as data gap filling methods and software training. SS1 was challenging, however, an important step in forcing transferable skills in measurement planning and implementation (creative thinking and problem solving) and interdisciplinary approaches (ability to combine work across different fields).

FAIRNEES-COST: CA20108 SS1 Summer School, Volos 2022





FAIR Network of micrometeorological measurements

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- **Areas of Expertise Relevant for the Action**
- Earth and related Environmental sciences: Meteorology, atmospheric physics and dynamics
- Earth and related Environmental sciences: Climatology and climate change

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Keywords

rural micrometeorology, urban micrometeorology, climate change, measurement network, knowledge share platform



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