



2022 IEEE INTERNATIONAL WORKSHOP ON METROLOGY FOR AGRICULTURE AND FORESTRY

NOVEMBER 3 - 5, 2022

PERUGIA, ITALY

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Pablo J. Zarco-Tejada, The University of Melbourne, Australia

WORKSHOP TENTATIVE PROGRAM

SPECIAL SESSION #1: NAVIGATION, GEOREFERENCED SPATIAL DATA ACQUISITION AND ANALYSIS IN PRECISION AGRICULTURE

Organized by: Andrea Masiero, University of Florence, Italy, Fabio Radicioni, Aurelio Stoppini, University of Perugia, Italy

SPECIAL SESSION #2: INNOVATIVE ROBOTICS SOLUTIONS AND AUTONOMOUS TASKS FOR AGRO-FORESTRY APPLICATIONS

Organized by: Lorenzo Marconi, Dario Mengoli, University of Bologna, Italy

SPECIAL SESSION #3: DIGITAL TECHNOLOGIES IN AGRICULTURAL, LIVESTOCK AND FOOD-PROCESSING FACILITIES

Organized by: Andrea Pezzuolo, University of Padova, Italy, Carlo Bibbiani, University of Pisa, Italy, Alberto Barbaresi, University of Bologna, Italy, Hao Guo, China Agricultural University, Beijing, China

SPECIAL SESSION #4: MAKING STEEP-SLOPE VINEYARDS MORE SUSTAINABLE: CONTRIBUTIONS FROM NEW TECHNOLOGIES

Organized by: Eugenio Straffelini, Wendi Wang, Paolo Tarolli, University of Padova, Italy, Anton Pijl, Cambisol, The Netherlands

SPECIAL SESSION #5: PLATFORMS FOR INTEGRATED ANALYSES OF AGRO-ECOSYSTEMS

Organized by: Marco Bindi, University of Florence, Italy, Elena Paoletti, National Research Council, Italy

SPECIAL SESSION #6: TECHNOLOGIES FOR MONITORING ANIMAL BEHAVIOUR AND ITS SURROUNDING ENVIRONMENT

Organized by: Cesare Castellini, University of Perugia, Italy

SPECIAL SESSION #7: ICT APPLICATION IN THE ENERGY, INDUSTRIAL AND BIOREFINERIES CHAINS BASED ON WOOD AND LIGNOCELLULOSIC BIOMASS

Organized by: Giuseppe Toscano, Università Politecnica delle Marche, Gianni Picchi, National Research Council (CNR-IBE), Italy

SPECIAL SESSION #8: GASEOUS EMISSIONS IN LIVESTOCK PRODUCTION: ADVANCES IN MEASUREMENT AND MODELLING FROM BARN TO THE FIELD

Organized by: Stefania Pindozzi, University of Naples Federico II, Italy, Alberto Finzi, University of Milan, Italy, Marco Bovo, University of Bologna, Italy, Elio Dinuccio, University of Turin, Italy

SPECIAL SESSION #9: PRECISION HORTICULTURE

Organized by: Manuela Zude-Sasse, Leibniz Institute for Agricultural Engineering and Bioeconomy, Germany, Lav R. Khot, Washington State University, USA, Luigi Manfrini, Università di Bologna, Italy

SPECIAL SESSION #10: REMOTE SENSING AND HYDROLOGICAL MODELS FOR IRRIGATION WATER USE ASSESSMENT

Organized by: Luca Brocca, National Research Council - Research Institute for Geo-Hydrological Protection, Sara Modanesi, Jacopo Dari.

SPECIAL SESSION #11: ANIMAL SCIENCE AND FOOD PRODUCTS OF ANIMAL ORIGIN: THE ROLE OF MEASUREMENT

Organized by: Raffaella Branciarri, University of Perugia, Italy, Emiliano Lasagna, University of Perugia, Italy

SPECIAL SESSION #12: SENSORS AND TECHNOLOGIES FOR THE SMART AGRICULTURAL WATER MANAGEMENT

Organized by: Simona Consoli, Giuseppe Longo Minnolo, University of Catania, Italy, Giuseppe Provenzano, University of Palermo, Italy

SPECIAL SESSION #13: NEW ADVANCEMENTS AND INTEGRATIONS OF OBSERVATION SYSTEMS FOR MONITORING HYDROLOGICAL PROCESSES AND FOR SUPPORTING THE SUSTAINABLE MANAGEMENT OF AGRO-FOREST SYSTEMS

Organized by: Gabriele Baroni, University of Bologna, Italy, Arianna Facchi, Università degli Studi di Milano, Italy, Christian Massari, National Research Council, Italy, Andrea Merlone, Istituto Nazionale di Ricerca Metrologica, Italy

SPECIAL SESSION #14: ARTIFICIAL INTELLIGENCE, INNOVATIVE DATA ANALYSIS AND BIG DATA FOR AGRICULTURE AND FOOD APPLICATIONS

Organized by: Marco Sozzi, University of Padova, Italy, Riccardo Dainelli, National Research Council, Italy, Maciej Zaborowicz, Poznań University of Life Sciences, Poland

SPECIAL SESSION #15: CONTACTLESS MEASUREMENTS, EDGE COMPUTING AND COMPUTER VISION FOR AGRICULTURE, FORESTRY AND ZOOTECHNICS

Organized by: Milena Martarelli, Università Politecnica delle Marche, Italy, Loris Francesco Termitte, Idea-Re S.r.l.

SPECIAL SESSION #16: MEASUREMENT OF SOIL WATER EROSION AT DIFFERENT SPATIAL SCALES

Organized by: Lorenzo Vergni, University of Perugia, Italy, Vincenzo Pampalone, University of Palermo, Italy, Giovanni Francesco Ricci, University of Bari, Italy

MetroAgriFor 2022 Plenary Speakers

Three well known scientists will be invited for offering a lecture on the state of art in their specific field of research.

MetroAgriFor 2022 Tutorials

The Final Programme will include a set of Tutorials.

IEEE MetroAgriFor 2021 will have the following awards, which will be announced and bestowed at the Conference Closing Ceremony.

Best Conference Paper Award

This award recognizes the most outstanding paper presented at IEEE MetroAgriFor Workshop.

The author of the awarded paper, and co-authors if any, will be entitled to a signed and stamped official Award Certificate;

The announcement of their achievement on a special conference webpage.

Basis for Judging: A selection committee will be appointed by the IEEE MetroAgriFor Awards Committee Chairs. Papers are judged based on technical merit, originality, potential impact on the field, clarity of the written paper, and quality of the conference presentation.

Presentation: The award will be announced and presented at the IEEE MetroAgriFor Closing Ceremony.

Best Paper Presented by a Young Researcher

This award recognizes the best paper authored and presented by a researcher younger than 35 years in age.

The author of the awarded paper, and co-authors if any, will be entitled to:

A signed and stamped official Award Certificate;

The announcement of their achievement on a special conference webpage.

Paper Nomination: If you are interested in applying this award, please nominate your paper through the Conference Registration Form.

Basis for Judging: A selection committee will be appointed by the IEEE MetroAgriFor Awards Committee Chairs. Papers are judged based on technical merit, originality, potential impact on the field, clarity of the written paper, and quality of the conference presentation.

Presentation: The award will be announced and presented at the IEEE MetroAgriFor Closing Ceremony.

Best Paper Presented by a Woman

This award recognizes the best paper authored and presented by a woman.

The Best Paper Presented by a Woman is sponsored by IEEE Woman in Engineering - Italy Section Affinity Group.

The author of the awarded paper, and co-authors if any, will be entitled to:

A signed and stamped official Award Certificate;

The announcement of their achievement on a special conference webpage.

Paper Nomination: If you are interested in applying this award, please nominate your paper through the Conference Registration Form.

Basis for Judging: A selection committee will be appointed by the IEEE MetroAgriFor Awards Committee Chairs and IEEE WIE Chairs. Papers are judged based on technical merit, originality, potential impact on the field, clarity of the written paper, and quality of the conference presentation.

Presentation: The award will be announced and presented at the IEEE MetroAgriFor Closing Ceremony.