



2020 IEEE INTERNATIONAL WORKSHOP ON

# METROLOGY FOR AGRICULTURE AND FORESTRY



UNIVERSITÀ DI TRENTO

04-06 NOVEMBER 2020

## CALL *for* PAPERS

*for the Special Session on*

## MITIGATION STRATEGIES TO REDUCE GASEOUS EMISSIONS FROM LIVESTOCK BUILDINGS AND MANURE STORES



### ABSTRACT

Livestock husbandry is recognized as a source of gaseous pollutants, responsible for contamination of air and indirectly of water and soil. Mitigation techniques are a complex system, going from smart devices for punctually detection of environmental conditions inside the barn, arriving to new systems for covering storage or treating manure at farm or collective level inside and outside the farm and finally evaluating innovative field application techniques.

The session wants to create a forum discussion about mitigation strategies for reducing gaseous emissions, encompassing also treatment strategies, as well as new technologies to gaseous detection inside and outside the farm.

### TOPICS

We welcome studies addressing the following, but not limited to:

- Measurement technique and smart devices for gases detection
- Accuracy of gaseous measurement in the livestock farm (from barn to field)
- Efficiency of manure treatments in the abatement and recovery of nutrients
- Evaluation of the environmental impacts and assessment of the efficiency of combined mitigation strategies
- Modelling diffusion nutrients compound in the air, soil and/or water

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### MORE INFORMATION



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