

ELECTRICAL, ELECTRONICS AND COMMUNICATIONS ENGINEERING

Fondazione Agrion - Study, development and application of innovative IoT solutions for Climate-Smart Agriculture

Funded By	Fondazione per la ricerca, l'innovazione e lo sviluppo tecnologico dell'agricoltura piemontese (Agrion) [P.iva/CF:03577780046]
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Context of the research activity	The research will focus on the design of innovative solutions, in particular based on wearable plant sensors, for implementing IoT systems for the monitoring of plants and related crops, applying the concepts of Climate-Smart Agriculture. Application level solutions will also be studied and implemented for optimising resources as water, fertilisers and pesticides.
Objectives	Research objectives are related to the design and implementation of IoT systems for Climate-Smart Agriculture applications. The research is funded by Fondazione Agrion, with which the work will be done, applying the implemented solutions in their living labs. It will be requested to design IoT systems for the application domain of agriculture 4.0, applying the needed criteria for the implementation of solutions for resource optimization and crop monitoring.
Skills and competencies for the development of the activity	<ul style="list-style-type: none">- Design and implementation of IoT systems for Climate-Smart Agriculture- Design and implementation of PCB boards- Firmware development for IoT systems