

**SMALLERS**

Empowering the Small Holders



# NEWSLETTER





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# SUMMARY

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| <b>SMALLDERS 3rd General Assembly Meeting in Athens (Greece), September 19th, 2023</b>   | <b>3</b>  |
| <b>FOODOPS Special Session at the International Multidisciplinary Modeling &amp; Simulation Multiconference (I3M) Conference, 18-20 September 2023, Athens, Greece</b> | <b>4</b>  |
| <b>SMALLDERS Special Session at the 5th International Conference on Industry 4.0 and Smart Manufacturing (ISM), 22-24 November 2023, Lisbon, Portugal</b>              | <b>7</b>  |
| <b>20th IEEE International Conference on Networking, Sensing and Control (ICNSC), 25-27 October 2023, Marseille, France</b>  | <b>8</b>  |
| <b>24th Edition of the Annual Congress of the French Society for Operational Research and Decision Support (ROADEF), 20-23 February 2023, Rennes, France</b>           | <b>8</b>  |
| <b>17th International Conference on Innovation in Intelligent Systems and Applications (INISTIA), 20-23 September 2023, Hammamet, Tunisia</b>                          | <b>9</b>  |
| <b>3rd IEEE International Conference on Signal, Control, and Communication (SCC), 1-3 December 2023, Hammamet, Tunisia</b>   | <b>10</b> |

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## SMALLDERS 3rd General Assembly Meeting in Athens (Greece), September 19th, 2023

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SMALLDERS Project held its 3rd General Assembly (GA) meeting, on 19 September 2023 in a hybrid mode (face-to-face and online participation) in Athens-Greece. The 2nd - GA meeting involved principal investigators and researchers of all Partners (University of Calabria, Italy; University of Parma, Italy; IMT Mines Ales, France; University of Extremadura, Spain; University of Tunis El Manar, Tunisia).



During this 3<sup>rd</sup> GA, each research team briefly presented its work highlighting the steps achieved as well as the results obtained. A discussion was then focused on the development of test beds to be set up in each country (France, Spain, and Tunisia). Also, several other points were mentioned to carry out the smooth running of the tasks as well as the future events of the project.

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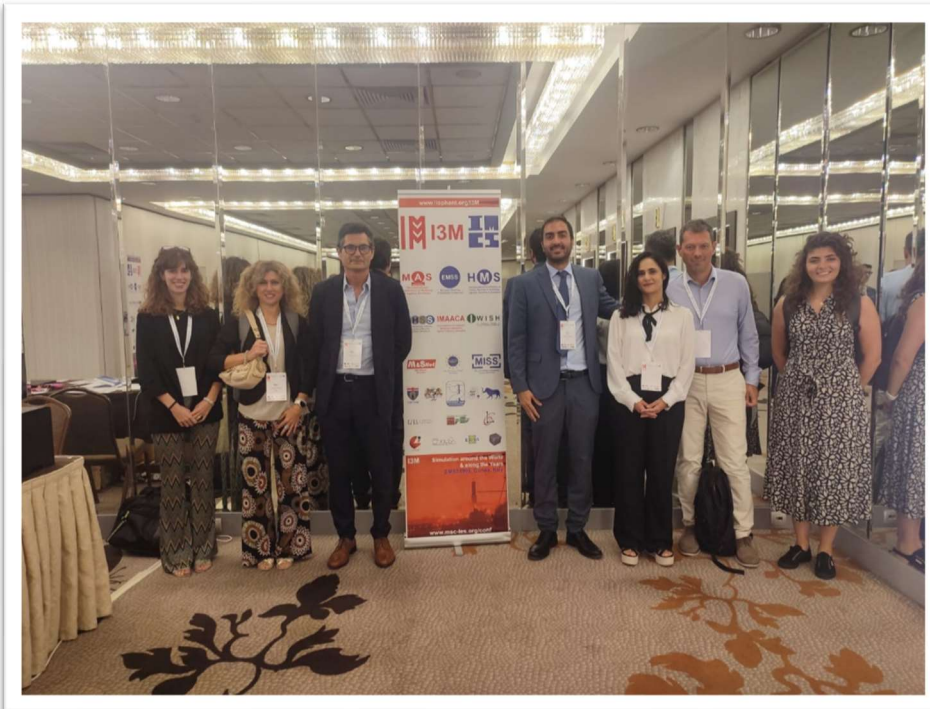


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## FOODOPS Special Session at the International Multidisciplinary Modeling & Simulation Multiconference (I3M) Conference September 2023

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During the 3rd GA, held in Athens (Greece) on September 2023, the SMALLDERS Project consortium organized a Food Operations and Processing Simulation Workshop “FOODOPS” special session at the International Multidisciplinary Modeling & Simulation Multiconference (I3M) on 18-20 September 2023. The session was dedicated to the general presentation of the SMALLDERS project carried out by Prof. Vittorio Solina and to the presentation of several contributions from different project partners. This special session had the principal objective of summarizing the main outcomes so far of the SMALLDERS project. The session was offered in a hybrid mode (in person and remotely) and was divided into two parts, during which 4 presentations took place. The total number of participants in this FOODOPS special session was 150 who attended the Conference in person and online.

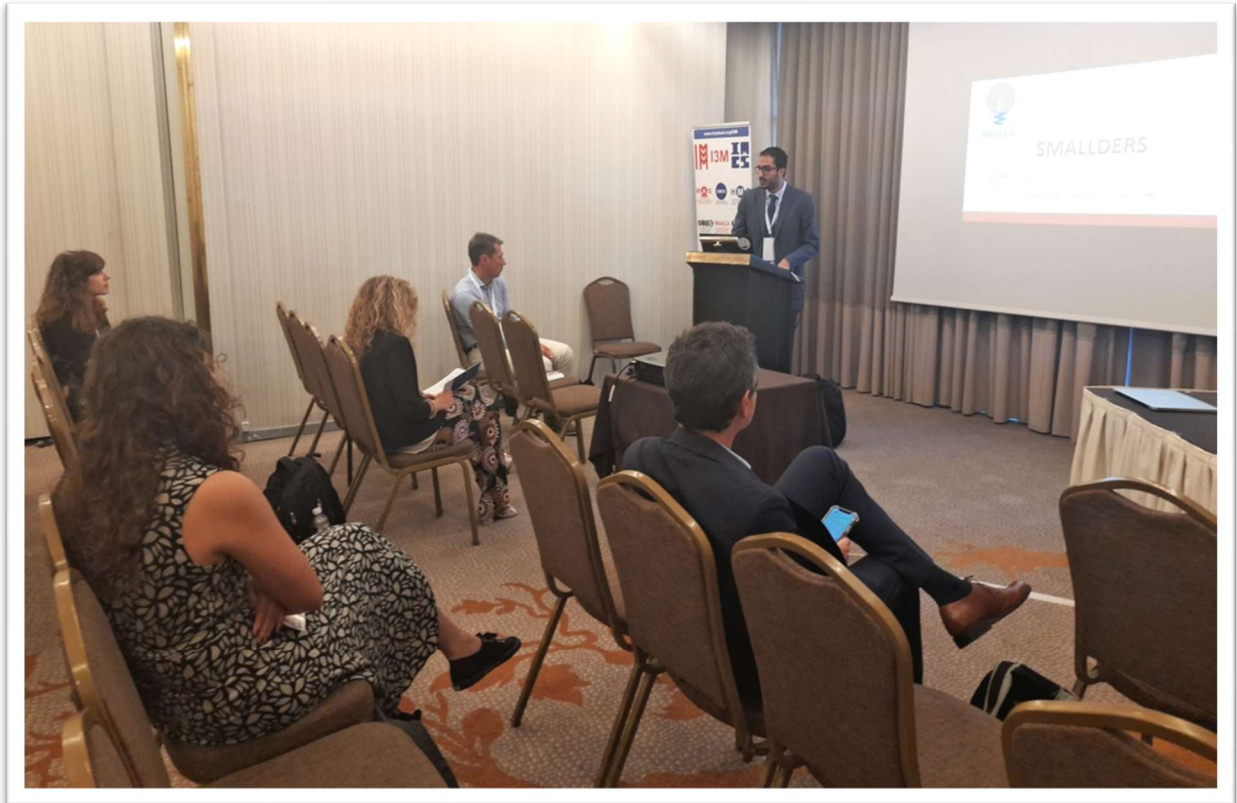


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Manuella Germanos, Oussama Ben-Ammar and Gregory Zacharewicz members of the French partner (IMT Mines Ales – LSR) presented the paper “An asexual genetic algorithm for the smallholder demand selection problem”.

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Safa Chabouh, Lilia Sidhom, Ayla Amamou and Abdelkader Mami members of the Tunisian partner (University Tunis El Manar, LAPER) presented the paper: “An agri-food supply chain sustainability from the consumer perspective: a survey-based study in the Tunisian context”.



Roberta Stefanini, Luca Preite, Eleonora Bottani, Laura Belli, Luca Davoli, Gianluigi Ferrari and Giuseppe Vignali member of the Italian partner (University of Parma (UNIPR)) presented the paper: “A research work about the selection of 4.0 sensors for smallholders: the compromise between the advantages and the costs of the implementation”.



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## SMALLDERS Special Session at the 5th International Conference on Industry 4.0 and Smart Manufacturing (ISM), 22-24 November 2023, Lisbon, Portugal

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The SMALLDERS project was presented on 24 November 2023 at the International Conference on Industry 4.0 and Smart Manufacturing (ISM 2023) at the Session - R&D Project Dissemination Event. This session was dedicated to presenting different European projects where five presentations were provided. Prof. Vittorio Solina from the University of Calabria (UNICAL) gave an overview of the project and summarized the main results obtained.



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**20th IEEE International Conference on Networking,  
Sensing, and Control (ICNSC), 25-27 October 2023,  
Marseille, France**

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Mrs. Manuella Germanos, Phd student at Laboratory for the Science of Risks (LSR), IMT Mines Alès, France, and a member of the SMALLDERS Project attended the ICNSC conference. She presented some of the core outcomes of the decision-support layer of the SMALLDERS platform which is represented by an exploratory model tackling the challenge of farmer selection and order allocation.

**24th Edition of the Annual Congress of the French Society  
for Operational Research and Decision Support  
(ROADEF), 20-23 February 2023, Rennes, France**

Mrs. Manuella Germanos, member of the LSR team, also attended the ROADEF congress and presented a detailed literature review to highlight the various problems faced by smallholders, analyze the methods developed to overcome them, uncover the shortcomings of the current research works to suggest possible solutions for future work.

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## **17th International Conference on Innovation in Intelligent Systems and Applications (INISTIA), 20-23 September 2023, Hammamet, Tunisia**

Mrs. Ayla Amamou, Phd student at LAPER, University of Tunis El Manar, and a member of the SMALLDERS Project attended the INISTIA conference and gave a presentation on the bibliometric literature review about the sustainability-based multi-capital approach in the agri-food supply chain. By using two databases, Scopus and Web of Science, over a period of 10 years, 643 relevant papers on this topic were identified. The obtained results not only highlight the potential sustainability capital used in the literature but also provide insights into the necessary research questions that should be addressed in future review papers.

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## 3rd IEEE International Conference on Signal, Control, and Communication (SCC), 1-3 December 2023, Hammamet, Tunisia

Dr. Safa Chabouh, research scientist at LAPER, University of Tunis El Manar, and a member of the SMALLDERS Project attended the SCC conference and gave a methodology to define a baseline sustainability scenario for AFSC in the Mediterranean area. To do so, key factors for sustainable AFSC as well as their possible options were identified for defining a baseline sustainability scenario for the SMALLDERS project.



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