Prof. Dr ABDUL MOUNEM MOUAZEN

Abdul Mounem Mouazen was born on 3 February 1966 in Aleppo, Syria.

Research fields and directions encompass two areas:

- Agricultural sciences, agronomy (precision agriculture),
- Technological sciences, environmental engineering (smart agricultural and environmental engineering technologies).

Current position: Professor at the Department of Environment, leader of the Precision SCoRing Group (20 employees).

Education

In 1988, A.M. Mouazen graduated as an agricultural engineer from Aleppo University, Syria. In 1990, he successfully completed his master studies at the same university and received master's degree in horticulture. In 1999, he defended doctoral dissertation 'Modelling the interaction between the soil and tillage tools' in the field of agricultural sciences at the Hungarian Academy of Sciences.

Professional, research, and pedagogical work

After completing his doctoral studies, he taught undergraduate students at Aleppo University. He received a postdoctoral research fellowship from the Research Council of the Katholieke Universiteit Leuven (KULeuven, Belgium) for a period of 12 months. In 2002, he moved fully to the Agricultural Machinery and Processing Laboratory of the KULeuven, where he worked as a research trainee and a researcher. He headed the soil technology research group. From 2007 to 2016, he was a senior lecturer of the Department of Environmental Science and Technology at Cranfield University, UK, and headed the agricultural engineering systems research group. Since 2017, he is a professor at the Department of Environment and the leader of the Precision SCoRing Group. Research areas include precision agriculture, remote soil scanning, agricultural

engineering soil mechanics, digital modelling of soil and tyre , soil and tillage interaction, tools of near-infrared spectroscopy.

Prof. Dr A.M. Mouazen is one of the world's leading scientists in precision soil and crop engineering. The vision of the multidisciplinary team of researchers from bioengineering, mechatronic engineering, soil science, electronics, and agronomy under his leadership is to combine cutting-edge sensor, data fusion, and geostatistical modelling techniques with agrosystem management technologies to optimise farm inputs and sustainably increase crop yields.

Prof. Dr Mouazen and his co-authors have published over 220 research papers in journals listed in the Clarivate Analytics WOS database with citation index (CA WOS CI journals), of a very large number of which he is the lead (corresponding) or the last author, as an idea originator or a project manager. These papers have been published in over forty different international research journals. His papers have been cited more than 7200 times; his H-index is 45. He is the author of two patents, a co-author of numerous chapters of books (about 30), serves on editorial boards of top-level journals (Q1-Q2), and is a member of major international professional organisations. He has participated in more than 140 international scientific conferences and seminars, has been an invited speaker at nine conferences, and is often invited to chair scientific sections (15), to participate in scientific committees (13), and to take part in dissertation defence boards (16).

Prof. Dr Mouazen has supervised about 20 doctoral students who have successfully defended their PhD dissertations and has supervised about ten postdoctoral fellowships.

Under his leadership, 37 international and national research projects have been won, including European projects for €4.1M and national projects for €13.14M.

Merits to Lithuanian science and its dissemination

Prof. Dr Abdul Mounem Mouazen maintains close research contacts with Lithuanian scientists. Between 2014 and 2020, together with Lithuanian researchers, he prepared several project proposals under the EU TWINNIG programme, invited Lithuanian scientists to join six Horizon 2020, Horizon Europe, ICT-AGRIS calls, and is running the international ERA NET ICT-AGRIS-FOOD project together with scientists from Belgium, Sweden, Greece, Spain, and Vytautas Magnus University Agriculture Academy; and with scientists from this academy, he is carrying out the SMART project of the Research Council of Lithuania 'Development of a multifunctional, UV-VIS-NIR spectrometry-based, sustainable precision sowing process control model'.

Prof. Dr Abdul Mounem Mouazen contributes significantly to the promotion of Lithuanian science worldwide. He has published two research papers in a Q1 journal with the affiliation of Vytautas Magnus University Agriculture Academy (another article of the same level is currently under review), three scientific publications with Lithuanian scientists in the publications of international scientific conferences, participated in the doctoral dissertation public defence board in environmental engineering of a PhD student at Vytautas Magnus University. Professor Mouazen is a member of the scientific committees of the conferences 'Human and Nature Safety 2022' and 'AgroEco 2022', which were organised in Lithuania.

He has done much to involve Lithuanian scientists in international scientific and academic activities: he invites researchers from Vytautas Magnus University Agriculture Academy to participate in the public doctoral dissertation defence boards at Ghent University, receives and offers advice to experienced researchers and doctoral students at Ghent University. In the last few years, two experienced and two young scientists have visited the unit under his leadership on separate occasions.