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**Short bio:** Victor Alchanatis is a senior research scientist at the Institute of Agricultural Engineering at ARO. His D.Sc. from Agricultural Engineering, Technion focused on computer vision and image processing. He served as a post-doctoral fellow at Texas A&M University during 1993-1995 and specialized in spectral imaging and real time image processing. Since 1995, he has been a research scientist in the Institute of Agricultural Engineering at ARO. From 2013 to 2019, he served as the Director of the Agricultural Engineering Institute. His research interests include sensing technologies and their application to agricultural and environmental systems: optical sensing in the visible, near-infrared and thermal infrared spectrum, hyper-spectral and multi-spectral image processing, computer vision and classification systems. These sensing technologies are applied to precision farming in field crops, orchards and protected cultivation, as well as for non-destructive testing of fruits and vegetables in post-harvest systems. He has been invited to talk on precision agriculture in national and international conferences. He has authored and co-authored more than 70 papers in international peer-reviewed journals and more than 100 in other journals and conference proceedings. Dr. Alchanatis is the PI of a number of international and national projects on sensing technologies for advanced agricultural systems. He acts as a reviewer of papers in more than 20 international peer reviewed journals. He has served as a guest editor of a special issue of Biosystems Engineering on Sensing Technologies for Sustainable Agriculture, he is on the editorial board of Biosystems Engineering, is an Associate Editor of Journal of Precision Agriculture and serves as the secretary of the International Society of Precision Agriculture (ISPA). Dr. Alchanatis has organized the 10<sup>th</sup> European Conference on Precision Agriculture (ECPA) in Tel Aviv, Israel (2015) and co-chaired the organizing committee.