



University of Pavia

Ph.D. School of Electrical and Electronics Engineering and Computer Science

SEMINAR

New issues in Hyperspectral Data Analysis

Stanley Rotman

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October 19 2017, 9:00-11:00

Aula Seminari "Ex Elettronica", Piano D

Abstract: There are many issues still being researched for multi-dimensional data analysis: in particular, we will consider change detection. We will examine several algorithms for change detection using both hyperspectral and radar data. We will consider the fusion of these data that were the basis of our contribution to a joint Italy-Israel research project. We will also consider methods to evaluate background noise, considering the difference between spatial clutter and spectral noise. Simulations have shown that these are crucial parameters for determining the degree of compression that is possible to do on the hyperspectral cubes.

Bio: Stanley R. Rotman was born in Boston, Massachusetts, in 1958. He received the B.S., M.S. and Ph.D. degrees in Electrical Engineering from the Massachusetts Institute of Technology, in 1979, 1980 and 1985, respectively. His present position is full professor at Ben-Gurion University of the Negev, Dept. of Electrical and Computer Engineering, Beer-Sheva, Israel. He is a senior member of IEEE and a fellow of SPIE. For the last decade, Prof. Stanley Rotman has been developing state-of-the art hyperspectral data analysis techniques for military and industrial applications. This includes innovative spectral target detection algorithms for tracking targets in four-dimensional space, new algorithms for sub-pixel target detection in spectral images, and new segmentation techniques for multipixel multispectral target detection in clutter.

Organizer

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Seminar in English

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