

Einladung des Instituts für Elektrische Meßtechnik und Meßsignalverarbeitung  
zum **GASTVORTRAG** am **31.08.2017 um 11:00 Uhr**  
im Hörsaal i8, PZ2EG026, Inffeldgasse 13, 8010 Graz

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*Titel:*        **Early Representation and Analysis of Visual Spatiotemporal Information**

*Gastvortragender:*

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**Abstract:**

When confronted with spatiotemporal data, an intelligent system that must make sense of the ensuing stream can be overwhelmed by its sheer quantity. Video and other temporal sequences of images are notorious for the vast amount of raw data that they comprise. An initial organization which affords distinctions that can guide subsequent processing would be a key enabler for dealing efficiently with data of this nature. Toward such ends, an approach to representing visual spacetime with a distributed oriented energy representation will be presented. This representation systematically exposes the structure of visual spacetime in terms of local, multiscale orientation. Advantages of this approach will be illustrated via application to various computer vision tasks.

**Biography:**

Richard Wildes received the Ph.D. degree from the Massachusetts Institute of Technology in 1989. Subsequently, he joined Sarnoff Corporation (now SRI) in Princeton, New Jersey, as a Member of the Technical Staff in the Vision Technologies Lab. In 2001, he joined the Department of Electrical Engineering and Computer Science (EECS) at York University, Toronto, as an Associate Professor. Currently he is Associate Director of York's "Vision: Science to Applications" (VISTA) program, funded for \$33.3 million by the Canada First Research Excellence Fund. He also was a former Chair of York's EECS Department and Associate Director of the York Centre for Vision Research (CVR). His research interests are in computational vision, especially motion and stereo analysis as well as machine vision applications. During his time in industry, he led teams and developed computer vision technologies for various real-world applications, including iris recognition where he is widely considered a pioneer. Awards and honours include the IEEE D.G. Fink Prize Paper Award, Sarnoff Corporation Technical Achievement Award and twice giving invited presentations at the USA National Academy of Sciences. He also holds multiple US patents related to video processing, image registration, object detection and biometrics.