



**Dr. Glenn Healey**  
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Glenn Healey is an expert on the modeling and processing of multispectral and hyperspectral images and has published over 150 refereed papers in this area. He received the M.S. degree in computer science, the M.S. degree in mathematics, and the Ph.D. degree in computer science all from Stanford University. Dr. Healey is a Professor of Electrical Engineering and Computer Science at the University of California, Irvine and has also worked at IBM Research.

For the last few years he has been active in the development of innovative hyperspectral image analysis tools. An important innovation of his work has been to bridge the largely disconnected physical modeling and image processing communities while making significant contributions to each area. His development of physics-based invariant subspaces for hyperspectral target detection was recognized by a DARPA innovative technology award and an IRIA Best Paper Award. He has also developed related hyperspectral algorithms for real-time detection, concealed target detection, plume detection, mine detection, and human face recognition.

As a pioneer in the development of physics-based image analysis, Dr. Healey served as an editor of a three-volume collection of papers and as guest editor for a feature issue of the Journal of the Optical Society of America A which showcased early progress. In the last few years he has given many invited lectures including the keynote address at a NATO technical meeting in Europe on the state-of-the-art in hyperspectral processing for military applications and also the keynote address at the SPIE BIOS conference on the use of spectral imaging methods for biomedical applications. Dr. Healey has served on the editorial boards of the Journal of the Optical Society of America A, IEEE Transactions on Pattern Analysis and Machine Intelligence, and IEEE Transactions on Image Processing. Dr. Healey has been elected a Fellow of the IEEE for extraordinary contributions to the modeling and processing of multispectral and hyperspectral images. He has received several awards related to teaching and student supervision at UC Irvine. His research has been supported by several federal agencies including NSF, NVESD, ONR, DARPA, AFOSR, AFRL, NGA, NRO, and industry.