



The International Society
for Optical Engineering

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N E W S R E L E A S E

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Moeness Amin Elected SPIE Fellow

SPIE – The International Society for Optical Engineering will honor 56 new Fellows of the Society this year. Fellows are members of distinction who have made significant scientific and technical contributions in the multidisciplinary fields of optics, photonics, and imaging. They are honored for their technical achievement, for their service to the general optics community, and to SPIE in particular. More than 480 SPIE members have become Fellows since the Society's inception in 1955.

"The annual recognition of Fellows provides an opportunity for us to acknowledge outstanding members for their service to the general optics community," says Brian Culshaw, SPIE President.

Moeness Amin,

Center for Advanced Communications, College of Engineering, Villanova University, Villanova, PA, USA, for specific achievements in the areas of radar and microwave imaging.

Amin directed 6-year multi-million dollar research and development projects from DARPA and Office of Naval Research on Through-the-Wall Radar Imaging, where he: a) Introduced robust techniques for high resolution imaging without knowledge of the wall characteristics and from variable standoff distances. b) Developed both coherent and noncoherent approaches using multi-antenna systems. c) Achieved desired imaging and resolution performance using minimum numbers of antennas at the transmit and receive points. d) Successfully applied high resolution imaging and motion classification to urban indoor targets. e) Developed a dual-frequency Doppler radar approach for target range estimation. f) Established state-of-the art 2-D data collection system with unmatched capabilities in US industry or academic institutions. g) Made data available to the larger technical community for testing and benchmarking. Amin also headed and directed a 10-year funded project from the Air Force Research Lab and a three-year funded project for the Office of Naval Research on interference mitigation in wideband communication platforms and GPS receivers.

Amin has made significant contributions to SPIE by serving as a member of the Communications and Networking Technologies and Systems at the SPIE Defense and Security Symposium since 2002. He introduced the RFID track at the Communications and Networking Technologies and Systems conference. He has also contributed 40 papers, chaired several sessions, and given two keynote addresses at SPIE conferences.

SPIE – The International Society for Optical Engineering is dedicated to advancing scientific research and engineering applications of optical, photonic, imaging, and optoelectronic technologies through its meetings, education programs, and publications. For more information, contact media@spie.org or visit our website at <http://spie.org>.