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Education

The Graduate School of CUNY	Ph.D., Electrical Engineering	1999
The City College of NY	M.S., Electrical Engineering	1996
The City College of NY	B.S., Electrical Engineering	1992

Professional Experience

Chief Technical Officer & Chief Operations Officer	Alfanix Technology LTD.	2005 - Present
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Institute of Ultrafast Spectroscopy and Lasers:

Deputy Director	2004 - Present
NASA URC COSI Technical and Administrative Coordinator	2003 - Present
Senior Scientist	2002 - Present
Experimentalist / Research Assistant	1990 - 1999

Professor	New York Institute of Technology	2002 - 2005
Scientist/Staff Engineer	IBM	1999 - 2002
Computer Administrator, E.E.	The City College of NY	1996 - 1998
Instructor, Student Programs	The City College of NY	1994 - 1998

Honors

- Mission Specialist - Astronaut Candidate Finalist, NASA, Class 2000
- NASA-Institutional Research Award, IRA, Grant recipient for graduate studies, 1994-1999
- National Science Foundation, NSF, Grant recipient, 1991-1994

Publications:

- *Detection of subsurface defects using a hybrid heating and cooling imaging technique*, C. Wang, G.C. Tang, W.B. Wang, M. Zevallos, M. K. Kassir and R. R. Alfano, Applied Physics Letters

- *Computer-controlled optical scanning tile microscope*, C. Wang, Pavel Shumyatsky, F. Zeng, M. E. Zevallos, R. R. Alfano, Applied Optics, 2006
- *Wireless Spectroscopic Compact Photonic Explorer for Diagnostic Optical Imaging*, Leming Wang, G. Zhang, J.C. Luo, F. Zeng, Q.Z. Wang, S. A. Alfano, A. Katz, M. Zevallos, and R. R. Alfano, Biomedical Microdevices 7:2, 111–115, 2005
- *Time-gated backscattered ballistic light imaging of objects in turbid water*, Manuel E. Zevallos L., S. K. Gayen, M. Alrubaiee, and R. R. Alfano, Applied Physics Letters, Jan. 2005
- *Near Infrared Spectroscopy and Imaging to Probe Differences in Water Content in Normal and Cancer Human Prostrate Tissues*, J. H. Ali, W. B. Wang, M. E. Zevallos, R. R. Alfano, Technology in Cancer Research and Treatment, Vol. 3, No. 5, 2004.
- *Time-sliced transillumination Imaging of bones*, M. E. Zevallos, S. K. Gayen, B. B. Das, M. Alrubaiee, and R. R. Alfano, IEEE Journal of selected topics in Quantum electronics, Vol. 5, NO. 4, 1999.
- *Near-infrared laser spectroscopic imaging: a step towards diagnostic optical imaging of human tissues*, S. K. Gayen, M. E. Zevallos, M. Alrubaice, and R. R. Alfano, published in Lasers in Life Sciences, 1999.
- *Two-dimensional near-infrared transillumination imaging of biological medical media using a chromium-doped forsterite laser*, S. K. Gayen, M. E. Zevallos, M. Alrubaice, J. M. Evans, and R. R. Alfano, Applied Optics Letters, 1998.
- *Time-Resolved Scattering Measurements from Scattering Media Fitted to Non-Euclidean and Conventional Diffusion Model*, M. E. Zevallos, A. Ya Polischuk, B. B. Das, F. Liu, and R. R. Alfano, Physical Review E, 1998.
- *Time-sliced transillumination Imaging of normal and cancerous breast tissue*, S. K. Gayen, M. E. Zevallos, B. B. Das, and R. R. Alfano, OSA trends in Optics and Photonics on Advances in Optical Imaging and Photon Migration, 1998.
- *Near-infrared transillumination imaging with the use of a chromium-doped forsterite laser*, S. K. Gayen, L. Wang, M. E. Zevallos, and R. R. Alfano, OSA Technical Digest Series, Vol. 11, 150-151, 1997.
- *Time-resolved pulse propagation in tissue tubular structures*, M. E. Zevallos, F. Liu, and R. R. Alfano, OSA Technical Digest Series, Vol. 11, 148-149, 1997.
- *Angular Dependence of The Intensity Temporal Profiles of Scattered Pulses in Diffusive Regime*, M. E. Zevallos, F. Liu, B. B. Das, A. Ya Polischuk, and R. R. Alfano, OSA trends in Optics and Photonics on advances in Optical Imaging and Photon Migration, R. R. Alfano, and James G. Fujimoto, eds., Vol. II, 21-24, 1996.
- *Generalization of Fermat's principle for photons in random media: The least mean square curvature of paths and photon diffusion on the velocity sphere*, Ya Polischuk, M. E. Zevallos, Feng Liu, and R. R. Alfano, Phys. Rev. E, 53, 5523, 1996.
- *Format Photons: Paths Propagation and Imaging in Turbid Media*, Ya Polischuk, Jean Dole, Feng Liu, M. E. Zevallos, B. B. Das, and R. R. Alfano, OSA trends in Optics and Photonics on Advances in Optical Imaging and Photon Migration, R. R. Alfano, and James G. Fujimoto eds., Vol. II, 14-17, 1996.
- *Time Resolved Diffusion Tomographic Image Reconstruction in Highly Scattering Turbid Media*, W. Cai, B. B. Das, F. Liu, M. E. Zevallos, M. Lax, and R. R. Alfano, Proc. Natl. Acad. Sci. USA, Vol. 93, 13561-13564, 1996.
- *Time Resolved Diffusion Tomographic Image Reconstruction in Highly Scattering Turbid Media*, W. Cai, B. B. Das, F. Liu, M. E. Zevallos, M. Lax, and R. R. Alfano, OSA trends in Optics and Photonics on Advances in Optical Imaging and Photon Migration, R. R. Alfano, and James G. Fujimoto, eds., Vol. II, 269-275, 1996.
- *Analysis of Time-Resolved Data For Tomographical Image Reconstruction of Opaque Phantoms and Finite Absorbers*, B. Das, J. Dolne, R. L. Barbour, H. L. Graber, J. Chang, M. E. Zevallos, F. Liu, and R. R. Alfano, Diffusive Media, SPIE Vol. 2389, 16-28, 1995.

Patents

- *Detection of human Cancer Through Spectral Optical Imaging using key Absorption Wavelengths*, pending
- *Spectral Polarizing Tomography Dermatoscope*, US Patent No.: US 6,587,711 B1
- *Optical spectroscopic imaging of human breast tissues to enable detection of tumours and diseases*, pending