

First Published Paper

Richard R. Talbott, "Network Survivability Analysis," in *Proc. FOC/ LAN 87 Fiber Optics Communications and Local Area Networks Conf.*, pp. 178–188 (1987).

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Outstanding Development Paper in an Externally Refereed Publication

Robert B. Givens, John C. Murphy, Robert Osiander, Thomas J. Kistenmacher, and Dennis K. Wickenden, "A High Sensitivity, Wide Dynamic Range Magnetometer Designed on a Xylophone Resonator," *Appl. Phys. Lett.* 69(18), 2755–2757 (1996).

Outstanding Professional Books

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Madeleine H. Marshall, John A. Landshof, and Jozef C. van der Ha, "Reducing Mission Operations Cost," Chap.

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Alexander Kossiakoff and William N. Sweet, *Systems Engineering Principles and Practice*, Wiley Interscience, John Wiley & Sons, Inc., Hoboken, NJ (2002).

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Michael Vlahos, *Terror's Mask: Insurgency Within Islam*, an APL/JWAD Occasional Paper (2002).

Honorable Mention: Andrew F. Cheng, "Near Earth Asteroid Rendezvous: Mission Summary," in *Asteroids III*, W. Bottke, A. Cellino, P. Padicchi, and R. Binzel (eds.), Univ. of Arizona Press, Tucson, pp. 351–366 (2002). **James C. Spall**, "Uncertainty Bounds in Parameter Estimation with Limited Data," Chap. 27, in *Modeling Uncertainty: An Examination of Stochastic Theory, Methods, and Applications*, M. Dror, P. L. Ecuyer, and F. Szidarovszky (eds.), Kluwer Academic, Norwell, MA, pp. 685–709 (2002).

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Outstanding Professional Book

Michael E. Thomas, *Optical Propagation in Linear Media: Atmospheric Gases and Particles, Solid-State Components, and Water*, Oxford Univ. Press, New York (2006).

Outstanding Special Publication

Jeffrey S. Lin, Howard S. Burkom, Sean P. Murphy, Steven M. Babin, Andrew B. Feldman, Yevgeniy Elbert, and Shilpa Hakre, "Bayesian Fusion of Syndromic Surveillance with Sensor Data for Disease Outbreak Classification," Chap. 6, in *Science, Engineering, and Biology Informatics, Vol. 2: Life Science Data Mining*, S. Wong and C.-S. Li (eds.), World Scientific Publishing, Singapore, pp. 119–140 (2006).

2008 (. 200)

Author's First Paper in a Peer-Reviewed Journal

Amy K. Castner, "An Agent-Supported Simulation Framework for Metric-Aware Dynamic Fidelity Modeling," *Proc. 2007 Agent-Directed Spring Simulation Symp. (ADS'07)*, Vol. 1, pp. 79–86 (2007). **Megan R. Leahy-Hoppa**, "Wideband Terahertz Spectroscopy of Explosives," *Chem. Phys. Lett.* 434, 227–230 (2007).

Outstanding Paper in the (a) (3) - (b) (3) (s) (t) A (P) (L) (7) - (c) (2) (h) (1) (t) D - (a) (g) (e)

Outstanding Paper in the *Johns Hopkins APL Technical Digest* (Walter G. Berl Award)

Ronald J. Vervack Jr., Jeng-Hwa Yee, William H. Swartz, Robert DeMajistre, and Larry J. Paxton, "The MSX/UVISI Stellar Occultation Experiments: Proof-of-Concept Demonstration of a New Approach to Remote Sensing of Earth's Atmosphere," *Johns Hopkins APL Tech. Dig.* 32(5), 803–821 (2014).

1995 (. 1)

Excellence in Development: Wayne A. Bryden, Richard C. Benson, Scott A. Ecelberger, and Terry E. Phillips, "Tiny Time-of-Flight Mass Spectrometer."

1996 (. 1)

Excellence in Development: L. Edward Antosek, William M. Antosek, Miguel A. Cubano, Quentin E. Dolecek, Richard A. Henle, Mark A. Scoville, Robert L. Stewart, Mark A. Talamini, and Stephen P. Yanek, "Navy Battlegroup Telemedicine Project."

Honorable Mention: Gary A. Sullins, "Jet Interactions for Missile Terminal Maneuvers."

1997 (. 1)

Excellence in Research: Robert B. Givens, Robert Osiander, Thomas J. Kistenmacher, Dennis K. Wickenden, and John C. Murphy, "Developing a New Class of Magnetometer Sensors."

Excellence in Development: Thomas Thompson, William S. Devereux, James M. Dougherty, and Thomas M. Hattox, "Two-Centimeter GPS Measurement System for Missile Intercept Test and Evaluation."

1998 (. 1)

Excellence in Research: James D. Franson and Todd B. Pittman, "An Optical Approach to Quantum Computing."

Excellence in Development: Jennifer A. Davis, Jean S. Deboy, Jay R. Dettmer, Binh Q. Le, David M. Lee, S. John Lehtonen, Ark L. Lew, Katherine J. Mach, Richard H. Maurer, and Elbert Nhan, "Chip-On-Board Technology."

1999 (. 1)

Excellence in Research: James C. Mayfield, Paul McNamee, and Christine D. Piatko, "New Approaches to Information Retrieval."

Honorable Mention: John R. Benedict Jr., Joseph Gezelter, Fernando J. Pineda, and Christine D. Piatko, "Advanced Mine Countermeasures."

Excellence in Development: Martin E. Fraeman, Robert E. Jenkins, Kim Strohbehn, Douglas S. Mehoke, Paul D. Wienhold, Deanna K. Temkin, Robert S. Bokulic, and George R. Seylar, "Advanced Electronic Architecture for Spacecraft."

2000 (. 1)

Excellence in Development: Timothy J. Cornish, Harry K. Charles Jr., and Paul D. Wienhold, "Fabricating Complex Reflector Structures for Use in Time-of-Flight Mass Spectrometers."

Honorable Mention: Henry A. Kues Jr., Paul R. Schuster, Matthew G. Bevan, and Carl V. Nelson, "Drowsy Driver Detection System."

2001 (. 2000)

Excellence in Research: Fernando J. Pineda, Peter F. Scholl, Amy K. Karlson, Miquel D. Antoine, Jeff J. Sacchi, and John C. D'Amico

2009 (September 2009)

Excellence in Research: I-Jeng Wang, Dennis G. Lucarelli, Philippe M. Burlina, Daniel F. DeMenthon, Anne A. Jorstad, and Anshu Saksena, "Information Fusion and Localization in Distributed Sensor Systems." Chad M. Hawes, Gregory S. Avicola, E. David Jansing, Michael E. Nord, and Rickey D. Chapman, "Exploitation

2005 (. 2000)

Henry A. Kues and Eric J. Van Gieson, "Microwave/Radio Frequency Energy-Assisted Drug Delivery Device." **Jerry A. Krill**, "3-D Display with Walkthrough and 'Virtual Visitation' Features for Command and

2016 (. 201)

Jason O. Johnson, "Improved Personal Protective Equipment for Ebola Healthcare Workers."

2017 (. 201)

Elizabeth M. Bathrick, Jeffrey A. Dunne, Sean M. Kain, and Blake A. Schreurs, "Tactical Use of the Microsoft HoloLens."

OUTSTANDING MISSION ACCOMPLISHMENT AWARD

2014 (. 201)

Current Challenge: **Mason M. Baron, Weston R. Boyd, Daniel J. Christine, James G. Cochran, Michael A. Delaney, Scott D. Heitkamp, Larry W. Nemsick, Conor R. Scott, and Mark A. Swana**, "Minotaur Mission Processor."

Emerging Challenge: **Jeffrey C. Mitchell, William C. Hughes, Dwayne A. Hawbaker, Kenneth A. Plantz, Matthew J. Kazanas, and Lorenzo R. Brooks**, "Naval Integrated Fire Control – Counter Air (NIFC-CA)."

2015 (. 201)

Current Challenge: **Amanpreet S. Johal, Amy K. Castner, Paul G. Velez, Eric C. Naber, David G. Katz, John P. Osborne, Emily Ronald, Rodney M. Jokerst, and Reuben A. Johnston**, "The ALPHA Project."

Emerging Challenge: **G. D. (Dan) Dockery, Donald E. Chesley, Charles L. Farthing, Christopher K. Barker, and Eric R. Thews**, "Next-Generation Air and Missile Defense Radar (AMDR)."

2016 (. 201)

Current Challenge: Awarded to the New Horizons Core Mission Team: **Peter Bedini, Kerri B. Beisser, Michael R. Buckley, Alice F. Bowman, Andrew Calloway, Christopher B. Hersman, Mark E. Holdridge, Valerie A. Mallder, Gabe D. Rogers, and Harold A.**

