

PUBLICATIONS

APL staff members were authors or co-authors of the following unclassified books and technical articles that were recently published:

Banerjee A, Burlina P, and Diehl C

A support vector method for anomaly detection in hyperspectral imagery, *IEEE Transaction on Geoscience and Remote Sensing* 8(44) 2282–2291 (2006).

Biermann PJ, Ward EE, Cain RP, Carkhuff BG, Merkle AC, and Roberts JC

Development of a physical human surrogate torso model for ballistic impact and blast, *J. of Adv. Materials* 38(1), 3–12 (2006).

Campbell JN, and Meyer RA

Mechanisms of neuropathic pain, *Neuron* 52, 77–92 (2006).

Caruso KS, Hijuelos PJ, Biermann PJ, and Roberts JC

Development of synthetic cortical bone for ballistic and blast testing, *J. of Adv. Materials* 38(3), 27–36 (2006).

Cernak I

Recent advances in neuroprotection for treating traumatic brain injury, *Expert Opinion on Investigational Drugs* 15(11), 1371–1381 (2006).

Demirev PA

Studies of malaria by mass spectrometry, Chap. 8 in *Identification of Microorganisms by Mass Spectrometry*, Wilkins CL, Lay Jo Jr., (eds.), John Wiley and Sons, pp. 161–180 (2006).

Farrar D, and Darrin AM

Assurance practices for MEMS and Microstructures, Chap. 16 in *MEMS and Microstructures in Aerospace Applications*, Osiander R, Darrin AM, Champion JL (eds.), CRC Press Taylor & Francis Group, pp. 348–366 (2006).

Guan Y, Borzan J, Meyer RA, and Raja SN

Windup in dorsal horn neurons is modulated by endogenous spinal mu-opioid mechanisms, *J. of Neuroscience* 26, 4298–4307 (2006).

Jacobs BC

Single photon source using laser pulses and two-photon absorption, *Physical Rev. A (Rapid Communication)* 74, (2006).

Penn JE

Design a MMIC LNA with GaAs PHEMTs, *Microwaves & RF* 45(11), 68–76 (2006).

Lin JS, Burkom HS, Murphy SP, Yevgeniy E, Hakre S, Babin SM, and Feldman AB

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Luman RR, Zinni A, Mahnken T, Hammes TX, Flynn SE, Gerges FA, McFate M, Jackson AV, Vlahos ME, Habeck M, Lutes CD, Crossett C, Kerman B, Simmons DL, Davis J, Sageman M, Kilkullen D, White JB, Sternberger WI, Keaney TA, Smyth EA, Crumpton HA, Caslen RA, Cucolo AA, Verga PF, Williams KE, Thomas J, and McLaughlin J

Unrestricted Warfare Symp. 2006 Proc. on Strategy, Analysis, and Technology, Johns Hopkins University Applied Physics Lab, Laurel, MD USA (2006).

McCally RL, Connolly PJ, Stark WJ, Jain S, and Azar DT

Identical eximer laser PTK treatments in rabbits result in two distinct haze responses, *Investigative Ophthalmology and Visual Sci.* 47(10), 4288–4294 (2005).

Najmi A-H, and Magruder SF

An adaptive prediction and detection algorithm for multistream syndromic surveillance, *BMC Medical Informatics and Decision Making* 5(33), <http://www.biomedcentral.com/1472-6947/5/33> (2005).

Pollitt GW

Mine countermeasures (MCM) tactical decision aids (TDAs), a historical review, *Military Operations Res. J.* 11(3), 7–17 (2006).

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Material selections for applications of MEMS, Chap. 14 in *MEMS and Microstructures in Aerospace Applications*, Osiander R, Darrin MA, Champion JL (eds.), CRC Press, USA, pp. 309–326 (2006).

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Microsurgery, in *The Encyclopedia of Medical Devices and Instrumentation*, Webster JG (eds.), John Wiley & Sons, Inc., USA, pp. 523–534 (2006).

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The environmental and health impacts of nanotechnology: Assessing the benefits and risks, *Nanotech Briefs* 3(5), 7–10 (2006).

Rice WW

How To Prepare Defense-Related Scientific and Technical Reports: Guidance for Government, Academia, and Industry, John Wiley & Sons, Inc., Hoboken, NJ USA (2007).

Yamac D, Spicer J, Fitch M, and Osiander R

Effects of surface roughness on reflection spectra obtained by terahertz time-domain spectroscopy, *Optics Lett.* 31(24), 3653–3655 (2006).

PRESENTATIONS

APL staff members were among those who gave the following presentations:

Antoine MD

Rapid analysis of biological samples using an automated sample preparation station combined with a MALDI mass spectrometry detection system, *Cambridge Healthtech Institute's 5th Annu. Systems Integration in Biodefense*, Washington, DC (Aug 2006).

Ashar RJ

Developing fusion support tools, *NSTD Program/Tech. Rev.*, Laurel, MD (Dec 2006).

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An investigation of new uses of traditional data within an ecological study: Air quality effects on pediatric asthma exacerbation analysis, *2006 Syndromic Surveillance Conf.*, Baltimore, MD (Oct 2006).

Broadwater JB, and Chellappa R

Spectral automatic target detection/recognition (ATD/R), *Sci. of Land Target Spectral Signatures FY06 Rev.*, Adelphi, MD (Nov 2006).

Chura C, and Dudley O

Web-based planning, scheduling and assessment in mission operations centers, *AIAA SpaceOps Conf.* 2006, Rome Italy (Jun 2006).

Clark TR, and Dennis ML

Coherent I/Q demodulation for highly linear RF-to-bits photonic links, *DARPA Microsystems Technol. Office Symp.* 2007, San Jose, CA (Mar 2007).

- Das S, Ghanem R, and Spall JC**
Asymptotic sampling distribution for polynomial chaos representation: a maximum entropy and fisher information approach, *IEEE Conf. on Decision and Control*, San Diego, CA (Dec 2006).
- Donegan MM, Sample JL, King DE, Caruso K, Drewry D, and Dennison JR**
Electronic property measurements and charging modeling of a ceramic-coated heat shield, *31st Int. Cocoa Beach Conf. & Exposition on Adv. Ceramics & Composites*, Daytona Beach, FL (Jan 2007).
- Dore DV**
Selecting a web to print system, *Assoc. of College and University Printers*, San Francisco, CA (Apr 2007).
- Dreyer EC, Wienhold PD, and Rooney M**
Carbon-carbon composites for the solar probe spacecraft: Part 2, Materials Testing, *31st Annu. Conf. on Composite Materials and Structures*, Daytona Beach, FL (Jan 2007).
- Dunham D**
Observing occultations, *Mtg. of the South Bay Astronomical Soc., El Camino College*, Torrance, CA (Apr 2006).
- Dunham D, and Warren WH Jr**
Eclipses and occultations, videos and results, *Mtg. of the National Capital Astronomers, University of Maryland Observatory*, College Park, MD (Jun 2006).
- Dunham D**
Occultations and the bright star catalogue, and yale/dorrit reminiscences, *Dorrit Hoffleit Centennial Year Symp., Omni Hotel*, New Haven, CT (Apr 2006).
- Farrag OI**
C3F2-DMAC: Clustered contention and contention free fully decentralized MAC for the 3M environment: real-time multimedia, multi-hop, and mobile, *Milcom 2006*, Washington, DC (Oct 2006).
- Farrar D, Yu MS, Busch-Vishniac I, Biermann P, Arvelo JI Jr, and West JE**
New materials with piezoelectric properties, *Int. Symp. on Electrets (ISE 12)*, Salvador Brazil (Dec 2005).
- Farrar D, Douglas DM, and Osiander R**
Lessons learned during the qualification and validation of the variable emittance MEMS technology, *Minnowbrook Microelectronics*, Blue Mountain Lake, NY (Oct 2004).
- Farrar D**
ST5: Variable emittance MEMS technology, *RSS Physical Sensors Rev.*, Laurel, MD (Aug 2006).
- Farrar D, and Schneider W**
Lessons learned during the development and qualification of the variable emittance MEMS instrument, *Space Technol. and Applications Information Forum (STAIF)*, Albuquerque, NM (Feb 2005).
- Farrar D, Yu MS, West JE, and Busch-Vishniac I**
New biopolymer composite with piezoelectric properties, *2006 MRS Fall Mtg*, Boston, MA (Nov 2006).
- Freund DE, and Awadallah RS**
Three-dimensional modeling of high power microwave long distance pulse propagation over irregular terrain, *Ninth Annu. Directed Energy Symp.*, Albuquerque, NM (Nov 2006).
- Freund DE, and Awadallah RS**
Preliminary modeling of the effects of high power microwaves on electronic equipment, *Ninth Annu. Directed Energy Symp.*, Albuquerque, NM (Nov 2006).
- Garner JC, Hurley M, Sandhoo G, Finnegan EJ, Stadter PA, and Kantsiper BL**
ORS phase III bus standards status, *AIAA 4th Responsive Space Conf.*, Los Angeles, CA (Apr 2006).
- Gorman BM, and Boon JE**
An approach to evaluate and engineer systems for threat risk mitigation, *Soc. for Risk Analysis Annu. Mtg.*, Baltimore, MD (Dec 2006).
- Huguenin BA**
Overview of 3rd party targeting demonstration using the APL precision target locator demonstrator, *Am. Institute of Aeronautics & Astronaut. Region 1 Young Professional Student & Education Conf.*, Laurel, MD (Nov 2006).
- Jacobs BC**
Single photon source using two-photon absorption and the quantum zeno effect, *SPIE Optics & Photonics Quantum Communications and Quantum Imaging IV*, San Diego, CA (Aug 2006).
- Jacobs BC, and Dennis ML**
Quantum cryptography at 830nm in standard telecommunications fiber, *SPIE Defense and Security Symp.*, Orlando, FL (Apr 2006).
- Jacobs BC**
Two photon absorption and the quantum zeno effect, *Third Feynman Festival*, College Park, MD (Aug 2006).
- Lasky MD**
The Johns Hopkins institutions planning for a pandemic influenza, *Int. Bird Flu Summi*, Geneva Switzerland (Nov 2006).
- Lauritzen KC**
High dynamic range receivers for digital beam forming radar systems, *IEEE Radar Conf. 2007*, Boston, MA (Apr 2007).
- Lear MH, McGrath BE, Takashima N, and Heyler GA**
JHU/APL breakup analysis tool (APLbat) for the new horizons radiological contingency, *Space Technol. and Applications Int. Forum*, Albuquerque, NM (Feb 2007).
- Leary JC, Farquhar RW, Holdridge ME, Gold RE, Grant DG, Hall CC, McAdams JV, McNutt RL Jr, and Solomon SC**
MESSENGER operations and critical events, *25th Int. Symp. on Space Technol. and Sci.*, Kanazawa Japan (Jun 2006).
- Lees WJ, and Schaefer ED**
The CRISM motor/encoder assembly and diaphragm bearing assembly design, *38th Aerospace Mechanisms Symp.*, Williamsburg, VA (May 2006).
- McNamee P**
Why you should use N-grams for multilingual information retrieval, *UMCP Computational Linguistics Colloquium Series*, College Park, MD (Oct 2006).
- Navid H**
Vibration control system upgrade, *AIAA Dynamics Working Group*, Gilbert, AZ (May 2006).
- Navid H**
A shaker's magnetic personality, *AIAA Dynamics Working Group*, Gilbert, AZ (May 2006).
- Pittini M, Ramesh K, Lennon AM, Merkle AC, and Roberts JC**
Dynamic response of human brain tissues, *ASME Int. Mechanical Engineering Congress and Exposition*, Chicago, IL (Nov 2006).
- Rebello KJ, Osiander O, Wesolek DM, Kitchin DA, Henrick RF, and Tejada F**
MEMS Hydrophones, *2006 Joint Undersea Warfare Spring Conf.*, San Diego, CA (Apr 2006).
- Rebello KJ, Osiander R, Kitchin DA, Sari JW, Henrick RF, and Tejada F**
A 2nd generation MEMS optical hydrophone, *2006 Joint Undersea Warfare Fall Conf.*, Groton, CT (Sep 2006).
- Ryder C, Krueger D, Flanigan D, and Rainey J**
Tutorial: systems engineering for the joint capabilities development and integration system, *NDIA 9th Annu. Systems Engineering Conf.*, San Diego, CA (Oct 2006).

Sikes, M, Holtry R, Babin S, Loschen W, Coberly J, and Happel Lewis S

An innovative design for conducting simulation exercises on electronic disease surveillance systems, *2006 Syndromic Surveillance Conf.*, Baltimore, MD (Oct 2006).

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Convergence analysis for feedback-and weighting-based jacobian estimates in the adaptive simultaneous perturbation algorithm, *IEEE Conf. on Decision and Control*, San Diego, CA (Dec 2006).

Tanzman JR

Testing of STEREO spacecraft solar array subsystem, *2006 Spacecraft and Launch Vehicle Dynamic Environments Workshop*, Hawthorne, CA (Jun 2006).

Telford JK

Statistical analyses of test data on mine clearing: Part 2, *12th Annu. US Army Conf. on Applied Statistics*, Research Triangle Park, NC (Oct 2006).

Widmer HP

A survey of stealthy UUV communications options, *Unmanned Maritime Vehicles Conf.*, Arlington, VA (Feb 2007).

Wienhold PD, Dreyer EC, and Mehoke DS

Carbon-carbon composites for the solar probe spacecraft: Part 1, structural elements, *31st Annu. Conf. on Composite Materials and Structures*, Daytona Beach, FL (Jan 2007).

The following papers were presented at the *4th International Energy Conversion Engineering Conf.*, San Diego, CA (Jun 2006):

Butler M

The STEREO spacecraft power system design.

Dakermanji G, Le B, and Ercol CJ

The MESSENGER spacecraft power subsystem thermal design, flight electrical and thermal performances.

Ottman GK, and Hersman C

The Pluto-New Horizons RTG and power system early mission performance.

Temkin D

Stability analysis of the STEREO satellite power system

CONFERENCES WITH PROCEEDINGS

APL staff members were among those who gave the following presentations that appeared in conference proceedings:

Barsic DN, Carmen CJ, Renjifo CA, Norman KG, and Peacock GS

Building efficient radial basis function kernel classifiers using iterative methods, in *Machine Learning for Signal Processing XVI: Proc. of the 2006 IEEE Signal Processing Soc. Workshop*, Maynooth, Ireland, pp. 3–8 (Sep 2006).

Bethea WL, Fink CR, and Beecher-Deighan JS

JHU/APL onto-mapology results for OAEI 2006, in *Proc. of the 1st Int. Workshop on Ontology Matching*, Athens, GA (Nov 2006).

Boehme MH, and Ventre BD

Implementation and testing of open-loop tracking for airborne GPS occultation measurements, in *Proc. of the 19th Int. Technical Mtg. of the Satellite Div. of the Institute of Navigation GNSS 2006*, Paper #5, pp. 620–633, Fort Worth, TX http://www.ion.org/Search/view_abstract.cfm?jp=p&idno=6938 (Sep 2006).

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Dual-wavelength brillouin fiber laser for microwave frequency generation, in *Tech. Digest of the Conf. on Optical Fiber Communications*, Paper #OWJ6, Anaheim, CA (Mar 2007).

D'Amico WP, Rebello KJ, Park RV, and Fedder GK

Common electrical block CMOS-based MEMS sensors for embedded instrumentation, in *Int. Telemetering Conf. 2005*, Las Vegas, NV, pp. 1–8 (Oct 2005).

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Interaction of the solar probe thruster plume with the solar wind, in *42nd AIAA/ASME/SAE/ASEE Joint Propulsion Conf.* Vol. 116, Paper #2006-4690, Sacramento, CA <http://www.aiaa.org> (Jul 2006).

Farroha BS, Resch CL, Stoneburner GR, Preziotti GR, and Nichols RA

Communications technol. for improved aviation security, in *2005 NASA ICNS Conf. & Workshop*, Fairfax, VA (May 2005).

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Requirements and architectural analysis for precedence capabilities in the global information grid, in *Milcom 2006 Proc.*, Paper #761 Washington, DC (Oct 2006).

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ORS phase III bus standards status, in *AIAA 4th Responsive Space Conf.*, Vol. 116, Los Angeles, CA (Apr 2006).

Gauthier LR, Howser LM, Prendergast DT, and Mattix MP

Radiometric dynamic scene processing for uncooled IRFPAs, in *Proc. of SPIE, Defense and Security 2006: Infrared, Tactical, and Laser Sensors and Systems*, Paper #22, Orlando, FL (Jun 2006).

Hampton JR, Jones SD, Merheb NM, Paunil DE, and Kochhar AK

Oceanic propagation measurements for beyond line-of-sight links at Q band, in *Proc. of the European Conf. on Antennas and Propagation 2006 (EuCAP 2006)*, Nice, France (Nov 2006).

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Quantum cryptography at 830nm in standard telecommunications fiber, in *Quantum Information and Computation IV*, Vol. 116, Paper #62440H, Orlando, FL, pp. 0H1–0H11 (Apr 2006).

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Compact ion and neutron spectrometer (CINS) for space application, in *2005 IEEE Nuclear Sci. Symp. Conf. Record*, Vol. 116, San Juan, Puerto Rico (Oct 2005).

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High-degree concentration of bio-agents using electrokinetic manipulations, in *IEEE/NLM Life Sci. Systems and Application Workshop 2006*, Bethesda, MD, pp. 1–2 (Jul 2006).

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Operational characterization system and communication interface for microelectromechanical (MEM) and passive thermal switches for the MidSTAR satellite program, in *Instrumentation and Measurement Technol. Conf. (IMTC)*, Vol. 116, Ottawa, Canada (May 2005).

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Convergence analysis for feedback- and weighting-based jacobian estimates in the adaptive simultaneous perturbation algorithm, in *Proc. of the IEEE Conf. on Decision and Control*, Paper #FrB13.2, San Diego, CA, pp. 5669–5674 (Dec 2006).

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Physical-layer intrusion detection in wireless networks, in *MILCOM 2006*, Paper #272, Washington, DC (Oct 2006).

Wickenden DK, Awadallah RS, Vichot PA, Brawley BM, Richards EA, Spicer JM, Fitch MJ, and Kistenmacher TJ

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Wolfrom JA, Rainey JA, and McKneely KH

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The following papers appeared in conference proceedings available on CD-ROM:

Antoine MD

Rapid analysis of biological samples using an automated sample preparation station combined with a MALDI mass spectrometry detection system, in *Cambridge Healthtech Institute's 5th Annu. Systems Integration in Biodefense*, Vol. 116, Washington, DC (Aug 2006).

Baumgart LA, and Bass EJ

Presenting graphic information in simulated real-time to create part-task scenarios, in *2006 IEEE Int. Conf. on Systems, Man, and Cybernetics*, Taipei, Taiwan (Oct 2006).

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Emergency management decision-making during severe weather, in *The 50th Annu. Mtg. of the Human Factors and Ergonomics Soc.*, San Francisco, CA (Oct 2006).

Borlase GA

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An adaptive threshold method for hyperspectral target detection, in *2006 IEEE Int. Conf. on Acoustics, Speech, and Signal Processing (ICASSP)*, Toulouse, France, pp. 1201–1204 (May 2006).

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Phys.-based detectors applied to long-wave infrared hyperspectral data, in *2006 Army Sci. Conf.*, Paper #AP-17, Orlando, FL <http://www.asc2006.com/> (Nov 2006).

Burns SP, O'Neil JM, Parthasarathy KN, and O'Brien TW

IR/RCS signature and dynamics representative threat bounds for target development, in *Proc. of the 2006 AIAA Missile Sci. Conf.*, Monterey, CA (Dec 2006).

Case FT, Koterba N, Conrad G, Ockerman J, and Vanderberry R

An instrumentation capability for dynamic targeting, in *2006 Command and Control Res. and Technol. Symp.*, San Diego, CA (Jun 2006).

Dakermanji G, Le B, and Ercol CJ

The MESSENGER spacecraft power subsystem thermal design, flight electrical and thermal performances, in *Proc. 4th Int. Energy Conversion Engineering Conf.*, Vol. 116, San Diego, CA (Jun 2006).

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The MESSENGER spacecraft solar array design and early mission performance, in *Proc. The 4th World Conf. on Photovoltaic Energy Conversion*, Vol. 116, Waikola, HI (May 2006).

D'Amico WP, Rebello KJ, Park RV, and Fedder GK

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Garrett, KA, Burns, SP, Eidson, RC, Funk, BK, and Scherock, JJ

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Ockerman JJ, and Koterba NT

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Rebello KJ, D'Amico WP, Park RV, Wung A, and Fedder GK

A Hi-G Sensor Suite for Embedded Instrumentation, in *ITEA 2006 Technol. Rev.*, Cambridge, MA, pp. 1–5 (Aug 2006).

Ryder C

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Smart JH, Barrett KT, and Freeman AS

The World-wide ocean optics database (WOOD), Ten Years Later, in *Proc. of Ocean Optics XVII*, Montreal, Canada (Oct 2006).

Tzeng N, Ockerman J, Koterba N, and Cantu O

Creation and use of a command and control collaboration testbed, in *2006 Command and Control Res. and Technol. Symp.*, San Diego, CA (Jun 2006).

Wilt DP, and Meitzler RC

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