

Faculty Publications

2010

Avramov-Zamurovic, S.; Dagalakis, N.G.; Rae Duk Lee; Yong Sik Kim; Jae Myung Yoo; Seung Ho Yang; "Embedded capacitive displacement sensor for nanopositioning applications," Precision Electromagnetic Measurements (CPEM), 2010 Conference on Digital Object Identifier: 10.1109/CPEM.2010.5543744
Publication Year: 2010 , Page(s): 316 - 317

R.P. Broussard, and R.W. Ives, "Accelerating Image Based Scientific Applications using Commodity Video Graphics Adapters ", Journal of Systemics, Cybernetics and Informatics, Vol 7, 1st quarter 2010

P. Joyce, L. Brown, D. Landen, S. Satapathy, "Measurement of High-Strain-Rate Strength of a Metal-Matrix Composite Conductor" – Proceedings of the SEM Annual Conference, Indianapolis, Indiana, June 7-10, 2010.

Bush, F.N.; Esposito, J.M. "Vision-based lane detection for an autonomous ground vehicle: A comparative field test." 42nd Southeastern Symposium on System Theory, 2010 Page(s): 35 – 39

J. Ciezki, M. Porter, and T. Salem, "An Investigation of DC-DC Converter Power Density using Si and SiC MOSFETS", *Electric Machines Technology Symposium*, May 2010

E.F. Crawley, R. J. Niewoehner, Jean Koster. "CDIO in Aerospace Engineering: The North America Aerospace Project Progress Report," ASEE Conference, Louisville, KY, Jun, 2010. (peer reviewed)

E.F. Crawley, R. J. Niewoehner, Jean Koster. "The North America Aerospace Project: Template for Project Based Learning," 6th International Conference of the CDIO Consortium, Montreal, Canada, June, 2010.

E.F. Crawley, R. J. Niewoehner, Jean Koster. "North American Aerospace Project: CDIO in Aerospace Engineering Education," AIAA Aerospace Sciences Meeting [AIAA-2010-0532], Orlando, FL, Jan, 2010.

Esposito, Joel M. "Decentralized cooperative manipulation with a swarm of mobile robots: The approach problem," American Control Conference (ACC), 2010 Page(s): 4762 - 4767

K.A. Flack & M.P. Schultz, "Review of Hydraulic Roughness Scales in the Fully Rough Regime," ASME Journal of Fluids Engineering, vol. 132(4), 041203, 2010.

MIDN 1/C M. Gobble, L. Brown, P. Joyce, "Material Properties of Functionally Graded Metal Matrix Composites", Proceedings of The National Conference On Undergraduate Research (NCUR) 2010, University of Montana, Missoula, Montana, April 15-17, 2010.

MIDN 1/C D. Gregorian, L. Brown, P. Joyce, "Shock Wave Mitigation in Ceramics Using Enhanced Density Backing Material", Proceedings of The National Conference On Undergraduate Research (NCUR) 2010, University of Montana, Missoula, Montana, April 15-17, 2010.

K. G. Grove and C. R. Anderson, "Dynamic Spectrum Access Testbed," Proceedings 20th Virginia Tech Symposium on Wireless Communications, Blacksburg, VA, June 2010, Digest of Papers.

M.A. Hurni, P. Sekhavat, M. Karpenko, and I.M. Ross, "A Pseudospectral Optimal Motion Planner for Autonomous Unmanned Vehicles," Proceedings of the 2010 American Control Conference, Baltimore, MD., 30 June – 2 July 2010.

M.A. Hurni, P. Sekhavat, M. Karpenko, and I.M. Ross, "Autonomous Multi-Vehilce Formations Using a Pseudospectral Optimal Control Framework," Proceedings of the 2010 IEEE/ASME AIM Conference, Montreal, Canada, 6-9 July 2010.

M.A. Humni, P. Sekhavat, and I.M. Ross, "An Info-Centric Trajectory Planner for Unmanned Ground Vehicles," Dynamics of Information Systems, Theory and Applications, Chapter 11, Springer, 2010.

Ibrahim, M., Kartuzova, O., Doucet, D., and Volino, R.J., "LES Flow Control Simulations for Highly Loaded Low Pressure Turbine Airfoil (L1A) Using Pulsed Vortex Generator Jets," ASME paper GT2010-23015. Proceedings of the ASME International Gas Turbine Conference, 2010.

B. Johnson and J. Zselezky, "The History of the Naval Academy Hydromechanics Laboratory (NAHL)", Proceedings of the 29th American Towing Tank Conference, Annapolis, MD August 2010

Arthur Kney, Nancy Ball, Traci Shoemaker, Danuta Bukatko, Angela Moran, Joe Colosi, "Partnerships across Academic and Geographic Boundaries: A Technology-Driven Transformation of 3rd – 7th Grade STEM Learning Communities", ASEE Proceedings, Feb 2010

MIDN 1/C A. Lazzaro, L. Brown, P. Joyce, "Material Properties of Functionally Graded Metal Matrix Composites", Proceedings of The National Conference On Undergraduate Research (NCUR) 2010, University of Montana, Missoula, Montana, April 15-17, 2010.

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Angela Moran, Lloyd Brown, and Michelle Koul, "Effects Of Processing On Structure And Properties - Part 1 and Part 2" published in MatEd National Resource Center for Materials Technology, http://www.materialseducation.org/educators/labs_demos/

Pejić, D.; Urekar, M.; Vujčić, V.; Avramov-Zamurović, S.; "Comparator offset error suppression in stochastic converters used in a watt-hour meter," Conference on Precision Electromagnetic Measurements (CPEM), 2010 Digital Object Identifier: 10.1109/CPEM.2010.5545089 Publication Year: 2010 , Page(s): 235 - 236

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Avramov-Zamurovic, S.; Rae Duk Lee; "A High-Stability Capacitance Sensor System and Its Evaluation," *IEEE Transactions on Instrumentation and Measurement*, Volume: 58, Issue: 4 Digital Object Identifier: 10.1109/TIM.2008.2007039 Publication Year: 2009 , Page(s): 955 – 961.

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