

From: AY 2016-2017 Annual Report

University of Central Florida

Department of Electrical and Computer Engineering

Book Chapters

Reza Abdolvand, Hedy Fatemi, Sina Moradian, "Quality Factor and Coupling in Piezoelectric MEMS Resonators," in *Piezoelectric MEMS Resonators*, Springer International Publishing, 2017.

DeMara, R. F., A. Vega, P. Bose, and A. Buyuktosunoglu, and R. F. DeMara, "Reliable and power-aware architectures: Fundamentals and modeling," in *Rugged Embedded Systems: Computing in Harsh Environments*, Elsevier Publishing (Chapter 2), 2016, A. Vega, P. Bose, and A. Buyuktosunoglu, Eds., ISBN-10: 0-128-02459-3, ISBN-13: 978-0-12-802459-1.

DeMara, R. F., N. Imran, and R. A. Ashraf, "Emerging Resilience Techniques for Embedded Devices," in *Rugged Embedded Systems: Computing in Harsh Environments*, Elsevier Publishing, (Chapter 4), 2016, A. Vega, P. Bose, and A. Buyuktosunoglu, Eds., ISBN-10: 0-128-02459-3, ISBN-13: 978-0-12-802459-1.

Jin, Y. Hiroto Yasuura, Chong-Min Kyung, Yongpan Liu, and Youn-Long Lin (Editors), "Smart Sensors at the IoT Frontier," Springer, 2017 (Orlando Arias, Kelvin Ly, and Yier Jin, "Security and Privacy in IoT Era")

Jin, Y. S. Bhunia, S. Ray, and S. Sur-Kolay (Editors), "Fundamentals of IP and SoC Security - Design, Verification and Debug," Springer, 2017 (Xiaolong Guo, Raj Gautam Dutta, and Yier Jin, "Chapter 10. IP Trust Validation Using Proof-Carrying Hardware")

Jin, Y. Prabhat Mishra, Swarup Bhunia, and Mark Tehranipoor (Editors), "Hardware IP Security and Trust," Springer, 2017 (Raj Gautam Dutta, Xiaolong Guo and Yier Jin, "Chapter 4. IP Trust: The Problem and Design/Validation-Based Solution")

Qu, Z. Roland Harvey and Zhihua Qu, "Cooperative Control and Networked Operation of Passivity-Short Systems," in *Control of Complex Systems: Theory and Applications*, K. G. Vamvoudakis and S. Jagannathan (Eds.), pp. 499-518, Elsevier, Cambridge, MA, 2016.

Journal Publications

1. R. Abdolvand, B. Bahreyni, J. E-Y. Lee, F. Nabki, "Micromachined resonators: A review." *Micromachines* 7, no. 9 (2016): 160.

2. H. Kondakci, A. Beckus*, A. El Halawany*, N. Mohammadian, G. Atia, and A. Abouraddy, "Coherence measurements of scattered incoherent light for lensless identification of an object's location and size," *IEEE Optics Express*, May 2017 (IF = 3.148).

3. L. Martin, D. Mardani*, H. Kondakci, W. Larson, S. Shabahang, A. Jahromi, T. Malhotra, N. Vamivakas, G. Atia, and A. Abouraddy, "Basis-neutral Hilbert-space analyzers," *Scientific Reports of Nature*, Feb. 2017 (IF = 5.525).

4. M. Rahmani* and G. Atia, "High Dimensional Low Rank plus Sparse Matrix Decomposition," *IEEE Transactions on Signal Processing*, Vol. 65, No. 8, April 2017 (IF = 2.624).

5. M. Rahmani* and G. Atia, "Randomized Robust Subspace Recovery and Outlier Detection for High Dimensional Data Matrices," *IEEE Transactions on Signal Processing*, Vol. 65, No. 6, March 2017 (IF = 2.624).
6. C. Aksoylar*, G. Atia and V. Saligrama, "Sparse Signal Processing with Linear and Non-Linear Observations: A Unified Shannon Theoretic Approach," *IEEE Transactions on Information Theory*, Vol. 63, No. 2, pp. 749-776, Feb 2017 (IF = 1.737).
7. A. Paris*, G. Atia, A. Vosoughi and S. Berman, "A New Statistical Model of Electroencephalogram Noise Spectra for Real-time Brain-Computer Interfaces," To Appear in the *IEEE Transactions on Biomedical Engineering*, 2017 (IF = 2.468).
8. S. Milad Tayebi*, C. Jourdan, I. Batarseh+ "Dynamic Dead Time Optimization and Phase Skipping Control Techniques for Three-Phase Micro-Inverter Applications," *IEEE Transaction on Industrial Electronics*, Vol. 63, No. 12, December 2016.
9. J.C. Bricout, B. Sharma, P.M.A. Baker, A. Behal, and L. Bölöni, "Learning Futures with Mixed Sentience," *Futures*, vol. 87, pp. 91-105, March 2017.
10. N. Paperno*, M. Rupp*, E. Maboudou, J. Smither, and A. Behal+, "A Predictive Model for Use of an Assistive Robotic Manipulator: Human Factors vs Performance in Pick-and-Place/Retrieval Tasks," *IEEE Transactions on Human-Machine Systems*, vol. 46, no. 6, doi: 10.1109/THMS.2016.2604366, 2016, pp. 846-858, December 2016.
11. K. Zhang* and A. Behal+, "Continuous Robust Control for Active Vibration Suppression of 2D Airfoils under Unsteady Flow," *Journal of Vibration and Control*, vol. 22(12), pp. 2841–2860, doi: 10.1177/1077546314554821, July 2016.
12. R. F. DeMara+, M. Platzner, and M. Ottavi, "Guest Editorial: *IEEE Transactions on Computers and IEEE Transactions on Emerging Topics in Computing* Joint Special Section on Innovation in Reconfigurable Computing Fabrics from Devices to Architectures," *IEEE Transactions on Emerging Topics in Computing*, Vol. 4, No. 3, pp. 1 – 2, April – June 2017. DOI: 10.1109/TETC.2016.2641599 (IF=not available due to being a new journal) (in 2016 calendar year, the manuscript acceptance rate was 21.5 percent)
13. S. Salehi*, D. Fan, and R. F. DeMara+, "Survey of STT-MRAM Cell Design Strategies: Taxonomy and Sense Amplifier Tradeoffs for Resiliency," *ACM Journal on Emerging Technologies in Computing (JETC)*, Vol. 33, No. 3, pp. 1-16, April 2017. DOI: <https://doi.org/10.1145/2997650> (IF=0.705)
14. S. Angizi*, A. Roohi*, S. Sheikhfaal, and R. F. DeMara+, "Towards Ultra-efficient QCA Reversible Circuits," *Microprocessors and Microsystems*, Volume 49, March 2017, Pages 127– 138, ISSN 0141-9331, <http://dx.doi.org/10.1016/j.micpro.2016.09.015> (IF=0.471)
15. A. J. Gonzalez+, J. R. Hollister*, R. F. DeMara, J. Leigh, B. Lanman, S. Y. Lee, S. Parker*, C. Walls*, J. Parker*, J. Wong*, C. Barham*, B. Wilder*, "AI in Informal Science Education: Bringing Turing Back to Life to Perform the Turing Test," *International Journal of Artificial Intelligence in Education*, Vol. 27, No. 3, pp. 353 – 384, March 2017. doi:10.1007/s40593-0170144-1 (IF=not available)
16. R. Zand*, A. Roohi*, D. Fan and R. F. DeMara+, "Energy-Efficient Nonvolatile Reconfigurable Logic using Spin Hall Effect-based Lookup Tables," *IEEE Transactions on Nanotechnology*, Vol. 16, No. 1, pp. 32 - 43, January 2017. <https://doi.org/10.1109/TNANO.2016.2625749> (IF=1.702)

17. A. Al-Zahrani* and R. F. DeMara+, “Fast Online Diagnosis and Recovery of Reconfigurable Logic Fabrics using Design Disjunction,” *IEEE Transactions on Computers*, Vol. 65, No. 10, pp. 3055-3069, October, 2016. DOI 10.1109/TC.2015.2513762 (IF=1.723)
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22. V. Thangavel*, Z. Song, and R. F. DeMara+, “Intrinsic Evolution of Truncated Puiseux Series on a Mixed-Signal Field Programmable SoC,” *IEEE Access*, Vol. 4, pp. 2863 – 2872, 2016. DOI 10.1109/ACCESS.2016.2537983 (IF=1.270)
23. X. Zhang, K. Tomsovic, A. Dimitrovski, “Security Constrained Multi-Stage Transmission Expansion Planning Considering a Continuously Variable Series Reactor,” to be published in *IEEE Transactions on Power Systems*, DOI: 10.1109/TPWRS.2017.2671786.
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Papers without Proceedings

1. P. Abolghasemi*, R. Rahmatizadeh*, A. Behal, and L. Bölöni, "Real-time Placement of a Wheelchair-mounted Robotic Arm," 25th IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), New York, NY, pp. 1032-1037, August 2016.
2. R. Rahmatizadeh*, P. Abolghasemi*, A. Jabalameli*, A. Behal and L. Bölöni, "Trajectory Adaptation of Robot Arms for Head-pose Dependent Assistive Tasks," in 29th International FLAIRS conference, pp. 410-413, May 16-18, 2016.
3. S. Kose, L. Fei, R. F. DeMara, "On-Chip Sensor Circle Distribution Technique for Real-Time Hardware Trojan Detection," poster-only presentation at Government Microcircuit Applications & Critical Technology Conference (GOMACTech-2016), Reno, NV, USA, March 20-23, 2017.
4. R. Hartshorne, R. F. DeMara, and B. Chen, "Strategies and Lessons Learned from a Faculty Development Pilot Program for Computerizing Assessments in Engineering Curricula," abstract and presentation at 27th Annual Conference of the Society for Information Technology and Teacher Education (SITE-2016), Austin, TX, USA, March 5 – 9, 2017.

5. R. Gioiosa, R. A. Ashraf, G. Kestor, R. F. DeMara, C.-Y. Cher, and P. Bose, "Modeling Fault Propagation in HPC Applications," Workshop on Modeling & Simulation of Systems and Applications (ModSim-2016) (presentation with abstract), Seattle, August 10 – 12, 2016.
6. R. F. DeMara and M. Lin, "Heterogeneous Technology Fabric," 2016 Command, Control, Communications, Computers, Intelligence (C4I) and Cyber Conference (poster only presentation), Utica, New York, U.S.A., June 14 – 16, 2016. National.
7. March Jacob, Linwood Jones, William Asher, Kyla Drushka, and Andrea Santos-Garcoa, " Rain Impact Model Assessment of Near-surface Salinity Stratifications following Rainfall," AGU Fall Meeting, San Francisco, CA, Dec 12-16, 2016, international.
8. White K.A., Mulberry G., Kim B.N. (2017), "Multifunctional High-Throughput Single-Cell Analysis using Reconfigurable Amplifier Array," *Biophysical Journal*; 2017;112: 461a. doi:10.1016/j.bpj.2016.11.2472
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10. A. Golshani*, and W. Sun+, "Robust Optimization Based Power System Restoration For Incorporating Large-scale Wind Farms," 2016 INFORMS Annual Meeting, Nashville, TN, USA, November 14, 2016.
11. A. Golshani*, and W. Sun+, "An Efficient Integer L-Shaped Method for a Two-Stage Self-Healing Power Grid Problem," 2016 INFORMS Annual Meeting, Nashville, TN, USA, November 14, 2016.
12. N. Kapucu, B. Haupt, and M. Yuksel, "Wireless Communication and Spectrum Sharing Policy for Public Safety in the U.S.," Annual Conference of American Society for Public Administration, Seattle, WA, March 2016.

Plenary and Invited Talks

1. Atia, G. On Robust Detection of Brain Stimuli with Ramanujan Periodicity Transforms, Asilomar Conference on Signals, Systems, and Computers, Special session on Signal Processing and Neuroimaging, Pacific Grove, Nov. 2017.
2. Atia, G. Coherence Pursuit for Principal Component Analysis, Information Theory Workshop (ITA), San Diego, Feb. 2017.
3. Atia, G. In Pursuit of Novelty: A Decentralized Approach to Subspace Clustering, Allerton Conference on Communication, Control and Computing, Monticello IL, Sep. 2016.
4. Batarseh, I. "Distributed Smart Solar Conversion to Enable Smart-Grid Applications". At the International Renewable Energy Conference (IREC2017), March 21, Amman, Jordan.
5. Batarseh, I. "Recent Advances in Distributed Smart Solar Energy", Tel Aviv University, Israel, Feb 5, 2017.
6. Batarseh, I. "Recent Advances in Power Electronics", German-Jordanian University, Jordan, December 18, 2016.
7. Dimitrovski, A. "Magnetic Amplifier-based Power Flow Controller, " 11/11/2016, Faculty of Electrical Engineering and Information Technologies – FEIT, Skopje, Macedonia

8. Dimitrovski, A. "Novel Hybrid Magnetic/Electronic Devices for Power Systems," 3/16/2017, Florida Solar Energy Center – FSEC, Cocoa, FL
9. X. Gong, "Beamsteerable Reflectarray Antennas for Millimeter-Wave Applications," Shanghai JiaoTong University, December 14, 2016.
10. X. Gong, "Beamsteerable Reflectarray Antennas for Millimeter-Wave Applications," University of Texas at Arlington, December 9, 2016.
11. Jin, Y. Warren B. Nelms Institute for the Connected World (Opening Ceremony), University of Florida, Gainesville, FL April 2017. Title: "Security and Privacy Challenges in Internet of Things" (Host: John Harris).
12. Jin, Y. Cisco, Gainesville, FL February 2017. Title: "Internet of Things (IoT): Design and Security" (Host: Yousef Iskander)
13. Jin, Y. Florida Security Workshop, Tampa, FL December 2016. Title: "IoT Security Training Platforms for Professionals and Engineers" (Host: Simon Ou)
14. Jin, Y. Florida Center of Cybersecurity, Tampa, FL October 2016. Title: "Demonstration: Trusted CPS Platform Development"
15. Jin, Y. University of Georgia, Athens, GA September 2016. Title: "IoT Security: From a Cross-Layer Perspective" (Host: Kang Li)
16. Jin, Y. EDA Workshop, Hong Kong, China August 2016. Title: "Arm-Race on Logic Obfuscation and IC Camouflaging for IP Protection" (Host: Zili Shao)
17. Jin, Y. Air Force Research Lab (AFRL), Rome NY August 2016. Title: "Security Challenges in CPS and IoT: from End-Node to the System" (Host: Charles Kamhoua and Kevin Kwiat)
18. Jin, Y. Syracuse University, Syracuse, NY July 2016. Title: "Security Vulnerability Database for IoT" (Host: Yanzhi Wang)
19. Jin, Y. International Workshop on Hardware Security, Beijing, China June 2016. Title: "Hardware's Active Role in Cybersecurity" (Host: Xiaoxiao Wang)
20. Jones, L.W. "Use of Active/Passive Microwave Measurements for Soil Moisture", Instituto de Astronomía y Física del Espacio (IAFE - Radio Astronomy group), University of Buenos Aires, Buenos Aires, Argentina, May 16, 2016
21. Rahnavard, N. "Adaptive Non-uniform Compressive Sensing for Time-Varying Signals," Information Theory and Applications (ITA) Workshop, San Diego, CA, Feb. 2017.
22. Sun, W. "Power System Restoration from Extreme Weather using Renewables," IEEE Innovative Smart Grid Technology Conference, Minneapolis, MN, September 8, 2016.
23. Sun, W. "Power System Restoration from Extreme Weather using Renewables," IEEE Power & Energy Society General Meeting, Boston, MA, July 19, 2016.
24. Wang, J. Enabling Efficient and Accurate Approximations on Sub-datasets with Distributionaware Online Sampling. Shenzhen University, China. December 11th, 2016.
25. Yuan, J.S. "IoT and wearable electronics: Ultra-low power and hardware security," IEEE Distinguished Lecture, ED Hawaii Chapter, Hawaii, June 17, 2016

26. "Ultra-low power design and RF circuit reliability for internet of things (IoT)," IEEE Distinguished Lecture, Grenoble Chapter, Grenoble, France, September 16, 2016

27. Yuan, J.S. "Ultra-low power design and RF reliability," IEEE Distinguished Lecture, North Carolina Agricultural and Technological University, Greensboro, North Carolina, March 30, 2017

Patents

Abdolvand, R. and H. Mansoorzare, "Resonant-Based Passive Wireless Accelerometer."

Batareseh, I. US 9,484,840: Hybrid Zero-Voltage Switching (ZVS) Control for Power Inverter; Issued: Nov. 1, 2016.

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X. Gong, "Reconfigurable Antenna Array and Associated Method of Use," U.S. Patent Application 33558PRV, filed on October 12, 2016.

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M. Yuksel, S. A. Suchter, K. M. Kim, S. A. Banachowski, C. C. Carson, S. Gupta, C. Waldspurger, and M. Yuksel, Systems, "Methods, and Devices for Detection of High Memory Swapping Events in Distributed Computing Systems," USPTO patent application 15/204,783, July 7, 2016.

M. Yuksel and M. R. Khan, "In-Band Autonomous Line-Of-Sight Alignment for Highly Directional Link Maintenance between Mobiles," USPTO provisional patent application 62/338,947, May 19, 2016.

M. Yuksel, S. Bhunia, M. R. Khan, S. Sengupta, and M. Yuksel, "In-Band Line-of-Sight (LOS) Discovery for Directional Full-Duplex Transceivers," USPTO provisional patent application 62/338,953, May 19, 2016.

Zhou, Q., A. Golshani, W. Sun, and Q. Zhou, "Self-healing Power Grid," Provisional Patent Application #33609, March 3, 2017.