

## Faculty Books

B. Liu and **Y. Chen**, "Auditing for Data Integrity and Reliability in Cloud Storage," *Handbook on Data Centers*, edited by S. U. Khan and A. Zomaya, published by Springer, ISBN 978-1-4939-2091-4, March 2015. [Book Chapter]

**V. Skormin**, "Introduction to Automatic Control," 2<sup>nd</sup> Edition, published by Linus Publications, Inc., February 2, 2015.

## Faculty Conference Publications

J. Bush, P. Dexter, T. N. Miller, **A. Carpenter**, Nyami: A Synthesizable GPU Architectural Model for General-Purpose and Graphics-Specific Workloads, *International Symposium on Performance Analysis of Systems and Software (ISPASS) 2015*, Philadelphia, Pennsylvania, USA, March 2015.

B. Poland, **Y. Chen**, M. Muccio, and D. Hague, "Context Aware TCP for Intelligence, Surveillance and Reconnaissance Mission on Autonomous Platforms," *Military Communications Conference (MILCOM)*, Baltimore, Maryland, USA, October 6-8, 2014.

R. Wu, **Y. Chen**, E. Blasch, B. Liu, and G. Chen, "A Container-Based Elastic Information Fusion Cloud Architecture for Real-Time Full-Motion Video (FMV) Target Tracking," *2014 IEEE Applied Imagery Pattern Recognition (AIPR) Workshop*, Washington D.C., USA, October 14-16, 2014.

Q. Dong, **Y. Chen**, and S. Towfighian, "MEGA: an Energy Aware Algorithm for Self-Powered Wireless Sensor Networks in Sustainable Smart Infrastructure," *2nd Workshop on Green Broadband Access: Energy Efficient Wireless and Wired Network Solutions - IEEE GlobeCom 2014*, Austin, Texas, USA, December 12, 2014.

H. Lee and **S. Choi**, "A Microfabricated Bio-Solar Cell for Self-Sustainable Field Applications," *Hilton Head Workshop 2014: A Solid-state Sensors, Actuators, and Microsystems Workshop*, pp. 258-261, Hilton Head Island, South Carolina, USA, June 8-12, 2014.

- A. Fraiwan, C. Dai, D. J. Hassett, and **S. Choi**, "A Paper-based Microbial Sensor Array for Rapid Screening of Electricity-producing Bacteria," *Hilton Head Workshop 2014: A Solid-state Sensors, Actuators, and Microsystems Workshop*, pp. 115-118, Hilton Head Island, South Carolina, USA, June 8-12, 2014.
- H. Lee, W. Yang, X. Wei, A. Fraiwan, and **S. Choi**, "A Microsized Microbial Fuel Cell based Biosensor for Fast and Sensitive Detection of Toxic Substances in Water," *IEEE MEMS 2015*, pp. 573-576, Estoril, Portugal, January 18-22, 2015.
- G. Choi, A. Fraiwan, D. J. Hassett, and **S. Choi**, "A Paper-based 48-well Microbial Fuel Cell Array for Rapid and High-throughput Screening of Electrochemically Active Bacteria," *IEEE MEMS 2015*, pp. 577-580, Estoril, Portugal, January 18-22, 2015.
- E. Ashendorf and **S. A. Craver**, "Design of a Steganographic Virtual Operating System," *Proc. SPIE 9409, Media Watermarking, Security, and Forensics 2015*, doi 10.1117/12..2079875, March 4, 2015.
- A. F. Baroughi and **S. A. Craver**, "The Non-trusty Clown Attack on Model-based Speaker Recognition Systems," *Proc. SPIE 9409, Media Watermarking, Security, and Forensics 2015*, doi 10.1117/12.2083412, March 4, 2015.
- C.-Y. Peng, **T. P. Dhakal**, A. Emrani, S. Lu, and **C. R. Westgate**, "Stability of CZTS Thin Film Solar Cells under Accelerated Thermal Cycling and Damp Heat Exposure," *40<sup>th</sup> IEEE PVSC Conference*, Denver, Colorado, USA, June 8-13, 2014.
- P. P. Rajbhandari, **T. P. Dhakal**, and **C. R. Westgate**, "Thin Film Iron Pyrite Synthesized by Sulfurization of Iron Oxide for Application in Photovoltaics," *40<sup>th</sup> IEEE PVSC Conference*, Denver, Colorado, USA, June 8-13, 2014.
- R. Cograanne, T. Denemark, and **J. Fridrich**, "Optimal Detection of Steganography Using a Statistical Model of FLD Ensemble Classifiers," *IEEE WIFS*, December 3-5, 2014.
- M. Goljan, R. Cograanne, and **J. Fridrich**, "Rich Model for Steganalysis of Color Images," *IEEE WIFS*, December 3-5, 2014.
- T. Denemark, V. Sedighi, V. Holub, R. Cograanne, and **J. Fridrich**, "Selection-Channel-Aware Rich Model for Steganalysis of Digital Images," *IEEE WIFS*, December 3-5, 2014.

M. Goljan and **J. Fridrich**, "CFA-Aware Features for Steganalysis of Color Images," *Proc. SPIE, Electronic Imaging, Media Watermarking, Security, and Forensics 2015*, Vol. 9409, San Francisco, California, USA, February 8-12, 2015.

V. Sedighi, R. Cogranne, and **J. Fridrich**, "Content-Adaptive Pentary Steganography Using the Multivariate Generalized Gaussian Cover Model," *Proc. SPIE, Electronic Imaging, Media Watermarking, Security, and Forensics 2015*, Vol. 9409, San Francisco, California, USA, February 8-12, 2015.

V. Holub and **J. Fridrich**, "Phase-Aware Projection Model for Steganalysis of JPEG Images," *Proc. SPIE, Electronic Imaging, Media Watermarking, Security, and Forensics 2015*, Vol. 9409, San Francisco, California, USA, February 8-12, 2015.

K. Xu, Y. Guo, **L. Guo**, Y. Fang, and X. Li, "My Privacy My Decision: Control of Photo Sharing over Online Social Networks," *IEEE Global Communications Conference (GLOBECOM 2014)*, Austin, Texas, USA, December 8-12, 2014.

M. Li, P. Li, **L. Guo**, and X. Huang, "PPER: Privacy-Preserving Economic-Robust Spectrum Auction in Wireless Networks," *34<sup>th</sup> IEEE International Conference on Computer Communication (IEEE INFOCOM' 15)*, Hong Kong, China, April 26-May 1, 2015.

J. Yuan, S. Yu, and **L. Guo**, "SEISA: Secure and Efficient Encrypted Image Search With Access Control," *34<sup>th</sup> IEEE International Conference on Computer Communication (IEEE INFOCOM' 15)*, Hong Kong, China, April 26-May 1, 2015.

**L. Guo**, Y. Fang, M. Li, and P. Li, "Verifiable Privacy-preserving Monitoring for Cloud-assisted mHealth Systems," *34<sup>th</sup> IEEE International Conference on Computer Communication (IEEE INFOCOM' 15)*, Hong Kong, China, April 26-May 1, 2015.

M. V. Ruiz-Blondet, N. Khalian, B. C. Armstrong, **Z. Jin**, K. J. Kurtz, and S. Laszlo, "Brainprint: Identifying Unique Features of Neural Activity with Machine Learning," *Proc. 36th Annual Meeting of the Cognitive Science Society (CogSci)*, July 2014.

Q. Gui, **Z. Jin**, and W. Xu, "Exploring EEG-based Biometrics for User Identification and Authentication," *Proc. IEEE Signal Processing in Medicine and Biology Symposium (SPMB)*, pp. 1-6, December 2014.

Q. Gui, **Z. Jin**, and W. Xu, "Exploring Missing Data Prediction in Medical Monitoring: A Performance Analysis Approach," *Proc. IEEE Signal Processing in Medicine and Biology Symposium (SPMB)*, pp. 1-6, December 2014.

M. V. Ruiz-Blondet, S. Laszlo, and **Z. Jin**, "Assessment of Permanence of Non-Volitional EEG Brainwaves as a Biometric," *IEEE International Conference on Identity, Security and Behaviour Analysis (ISBA)*, March 2015.

Q., Gui, **Z. Jin**, M. V. Ruiz-Blondet, S. Laszlo, and W. Xu, "Towards EEG Biometrics: Similarity-Based Approaches for User Authentication," *IEEE International Conference on Identity, Security and Behaviour Analysis (ISBA)*, March 2015.

**M. Kirchner**, P. Schöttle, and C. Riess, "Thinking Beyond the Block: Block Matching for Copy-Move Forgery Detection Revisited," *Media Watermarking, Security, and Forensics 2015, Proc. SPIE-IS&T Electronic Imaging*, Vol. 9409, 94092, March 2015.

W. E. Jones, **D. Klotzkin**, W. Cui, G. Myers, S. Wagoner, B. White, and W. Bernier, "Multidisciplinary Introduction to Nanotechnology through Microfabrication," Abstracts of Papers of the American Chemical Society, Vol. 247, Washington D.C., USA, March 2014.

C. Xiong and **X. Li**, "Competitive Performance of Multiple Spectrum Access Strategies Coexisting in Heterogeneous Cognitive Radio Networks," *2<sup>nd</sup> IEEE China Summit & International Conference on Signal and Information Processing (IEEE ChinaSIP 2014)*, Xi'an, China, July 9-13, 2014.

**X. Li** and Z. Zhang, "Exploiting the Scale of Big Data for Data Privacy: An Efficient Scheme based on Distance-preserving Artificial Noise and Secret Matrix Transform," *2<sup>nd</sup> IEEE China Summit & International Conference on Signal and Information Processing (IEEE ChinaSIP 2014)*, Xi'an, China, July 9-13, 2014.

**X. Li** and T. Yang, "Signal Processing Oriented Approach for Big Data Privacy," *Proc. IEEE 16<sup>th</sup> International Symposium on High Assurance Systems Engineering (HASE 2015)*, Daytona Beach, Florida, USA, January 8-10, 2015.

**X. Li** and J. Lee, "Multi-hop Relaying with Optimal Decode-and-forward Transmission Rate and Self-immunity to Mutual Interference among Wireless Nodes," *49<sup>th</sup> Annual Conference on Information Sciences and Systems (CISS'2015)*, Johns Hopkins University, Baltimore, Maryland, March 18-20, 2015.

**V. Nikulin**, "Mobile Tracking Control System for Laser Communication," *Proc. Intellectual Information and Communication Technologies Conference*, June 2014.

V. Ten, **V. Nikulin**, and D. Sharipova, "Approach to Control of Hybrid Renewable Power System on the Basis of Adaptive Control with Local Parametric Optimization," *Proc. Intl. Conference on Renewable Energy Research and Applications*, October 2014.

**V. Nikulin**, D. Hughes, J. Malowicki, and V. Bedi, "Analysis of the Secrecy of the Running Key in Quantum Encryption Channels using Coherent States of Light," *Proc. SPIE Quantum Information and Computation XIII*, Vol. 9500, 950009, May 2015.

**V. Nikulin**, R. Khandekar, and V. Bedi, "Application of Holographic Interferometry to In-plane and Out-of-plane Misalignment and Deformation Measurements in Packaging Applications," *Proc. SPIE Dimensional Optical Metrology and Inspection for Practical Applications IV*, Vol. 9489, 94890J, May 2015.

**V. Skormin**, A. Dolgikh, and Z. Birnbaum, "The Behavioral Approach to Diagnostics of Cyber-Physical Systems," *IEEE Autotest*, St. Louis, Missouri, USA, 2014.

A. Fraiwan, S. P. Adusumilli, D. Han, A. J. Steckl, D. F. Call, **C. R. Westgate**, and **S. Choi**, "Micro-/Nano-Structured Anodes for Enhanced Performance of Micro-sized Microbial Fuel Cell," *Hilton Head Workshop 2014: A Solid-state Sensors, Actuators, and Microsystems Workshop*, pp. 203-206, Hilton Head Island, South Carolina, USA, June 8-12, 2014.

**N. E. Wu** and J. Huang, "On-line Impulse Response Extraction of a Power Transfer Path using Pulse Compression Probing," *American Control Conference (ACC)*, June 2014.

Q. Qin and **N. E. Wu**, "Recloser and Sectionalizer Placement for Reliability Improvement using Discrete Event Simulation," *IEEE PES Generation Meeting Conference & Exposition*, July 27, 2014.

X. Liu and **S. A. Zahorian**, "Combined PNCC Feature Extractor for Robust Speech Recognition," *CHINASIP 2014*, August 2014.

H. Hu, **S. A. Zahorian**, P. Guzewich, and J. Wu, "Acoustic Features for Robust Classification of Mandarin Tones," *Interspeech 2014*, September 2014.

X. Liu and **S. A. Zahorian**, "A Unified Framework for Filterbank and Time-frequency Basis Vectors in ASR Frontends," *ICASSP 2015*, April 2015.

L. Feng, B. McMillin, A. P. Santiago, and **Z. Zhang**, "Incremental Cost Consensus (ICC) and Leaderless ICC Implementations in FREEDM," *6<sup>th</sup> Conference on Innovative Smart Grid Technologies (ISGT2015)*, February 17-20, 2015.

Z. Huang, K. Schneider, J. Nieplocha, and **N. Zhou**, "Estimating Power System Dynamic States Using Extended Kalman Filter," *2014 IEEE PES General Meeting*, National Harbor, Maryland, USA, July 27-31, 2014.

## **Faculty Journal Articles**

**A. Carpenter** and **Y. Chen**, "Hardware Security in the Dark," *International Journal of Software and Informatics (IJSI), Special Issue on Information and System Security*, Vol. 8, No. 2, 2014.

A. Dolgikh, Z. Birnbaum, B. Liu, **Y. Chen**, and **V. Skormin**, "Cloud Security Auditing based on Behavioral Modeling," *International Journal of Business Process Integration and Management*, Vol. 7, No. 2, 2014.

B. Liu, E. Blasch, **Y. Chen**, A. J. Aved, A. Hadiks, D. Shen, and G. Chen, "Information Fusion in Cloud Computing Era: A Systems-Level Perspective," *IEEE Aerospace and Electronic Systems (AES) Magazine*, Vol. 29, No. 10, pp.16-24, October 2014.

**Z. Jin** and **Y. Chen**, "Telemedicine in Cloud Era: Prospect and Challenges," *IEEE Pervasive Computing*, January-March Issue, 2015.

A. Fraiwan, H. Lee, and **S. Choi**, "A Multi-Anode Paper-based Microbial Fuel Cell: A Potential Power Source for Disposable Biosensors," *IEEE Sensors Journal*, Vol. 14, pp. 3385-3390, 2014.

A. Fraiwan and **S. Choi**, "Bacteria-Powered Battery on Paper," *Physical Chemistry Chemical Physics*, Vol. 16, pp. 26288-26293, 2014.

A. Fraiwan, D. J. Hassett, and **S. Choi**, "Effects of Light on the Performance of Electricity-producing Bacteria in a Miniaturized Microbial Fuel Cell Array," *Journal of Renewable and Sustainable Energy*, Vol. 6, pp. 063110, 2014.

H. Lee, and **S. Choi**, "A Micro-sized Biosolar Cell for Self-sustaining Power Generation," *Lab Chip*, Vol. 15, pp. 391-398, 2015.

C.-Y. Peng, **T. P. Dhakal**, S. Garner, P. Cimo, S. Lu, and **C. R. Westgate**, "Fabrication of Cu<sub>2</sub>ZnSnS<sub>4</sub> Solar Cell on a Flexible Glass Substrate," *Thin Solid Films* Vol. 562, pp. 574-577, 2014.

P. P. Rajbhandari, A. Emrani, **T. P. Dhakal**, **C. R. Westgate**, and **D. Klotzkin**, "Antireflection Coatings Designed by the Average Uniform Algorithm for Thin Film Solar Cells," *Applied Optics*, Vol. 53, No. 34, pp. 8006-8011, December 2014.

A. Emrani, P. P. Rajbhandari, **T. P. Dhakal**, and **C. R. Westgate**, "CZTS Solar Cells Fabricated by Short-term Sulfurization of Sputtered Sn/Zn/Cu Precursors Under an H<sub>2</sub>S Atmosphere," *Thin Solid Films*, Vol. 577, pp. 62-66, 2015.

M. Pourhomayoun and **M. L. Fowler**, "Distributed Computation for Direct Position Determination," *IEEE Transactions on Aerospace and Electronic Systems*, October 2014.

V. Holub and **J. Fridrich**, "Low Complexity Features for JPEG Steganalysis Using Undecimated DCT," *IEEE TIFS*, Vol. 10, No. 2, pp. 219-228, February 2015.

V. Holub and **J. Fridrich**, "Universal Distortion Design for Steganography in an Arbitrary Domain," *EURASIP Journal on Information Security, Special Issue on Revised Selected Papers of ACM IH and MMS 2013*, 2014.

**L. Guo**, C. Zhang, J. Sun, and Y. Fang, "A Privacy-Preserving Attribute-based Authentication System for Mobile Health Networks," *IEEE Transactions on Mobile Computing (TMC)*, Vol. 13, No. 9, pp. 1927-1941, September 2014.

H. Yue, **L. Guo**, R. Li, H. Asaeda, and Y. Fang, "DataCloud: Enabling Data-Centric Services over Internet of Things," *IEEE Journal of Internet of Things*, Vol. 1, No. 5, pp. 472-482, October 2014.

**L. Guo**, C. Zhang, H. Yue, and Y. Fang, "PSaD: A Privacy-preserving Social-assisted Content Dissemination Scheme in DTNs," *IEEE Transactions on Mobile Computing (TMC)*, Vol. 13, No. 12, pp. 2903-2918, December 2014.

M. Pourhomayoun, **Z. Jin**, and **M. L. Fowler**, "Accurate Tumor Localization and Tracking in Radiation Therapy Using Wireless Body Sensor Networks," *Computers in Biology and Medicine (ELSEVIER)*, Vol. 50, pp. 41-48, July 1, 2014.

S. Laszlo, M. V. Ruiz-Blondet, N. Khalian, F. Chu, and **Z. Jin**, "A Direct Comparison of Active and Passive Amplification Electrodes in the Same Amplifier System," *Journal of Neuroscience Methods*, Vol. 235, pp. 298-307, September 2014.

A. Wang, W. Xu, **Z. Jin**, and F. Gong, "Quantization Effects in an Analog-to-Information Front-End in EEG Tele-Monitoring," *IEEE Transactions on Circuits and Systems II (TCAS-II)*, Vol. 62, No. 2, February 2015.

M. Ratterman, L. Shen, **D. Klotzkin**, and I. Papautsky. "Carbon Dioxide Luminescent Sensor based on a CMOS Image Array," *Sensors and Actuators B: Chemical*, Vol. 198, pp. 1-6, 2014.

W. Cui, W. E. Jones, **D. Klotzkin**, G. L. Myers, S. Wagoner, and B. White, "Realization of a Comprehensive Multidisciplinary Microfabrication Education Program at Binghamton University," *IEEE Transactions on Education*, Vol. 58, No. 1, pp. 25-31, 2015.

**A. C. Rastogi** and N. R. Janardhana, "Properties of CuSbS<sub>2</sub> Thin Films Electrodeposited from Ionic Liquids as P-type Absorber for Photovoltaic Solar Cells," *Thin Solid Films*, Vol. 565, pp. 285-292, 2014.

N. K. Sidhu and **A. C. Rastogi**, "Vertically Aligned ZnO Nanorod-polypyrrole Sheath and Nanotube Arrays for Electrochemical Energy Storage," *Nanoscale Research Letters*, Vol. 9, pp. 453-469, 2014.

A. Fraiwan, S. P. Adusumilli, D. Han, A. J. Steckl, D. F. Call, **C. R. Westgate**, and **S. Choi**, "Microbial Power-generation Capabilities on Micro-/Nano-structured Anodes in Micro-sized Microbial Fuel Cells," *Fuel Cells*, Vol. 14, pp. 801-809, 2014.

J. Huang, **N. E. Wu**, and M. C. Ruschmann, "Data-availability-constrained Placement of PMUs and Communication Links in a Power System," *IEEE Systems Journal*, 2014.

N. Rahbari-Asr, U. Ojha, **Z. Zhang**, and M.-Y. Chow, "Incremental Welfare Consensus Algorithm for Cooperative Distributed Generation/Demand Response in Smart-Grid," *IEEE Transactions on Smart Grid*, Vol.5, No.6, pp. 2836-2845, November 2014.

S. Wang, S. Lu, **N. Zhou**, G. Lin, M. A. Elizondo, and M. A. Pai, "Dynamic-feature Extraction, Attribution and Reconstruction (DEAR) Approach for Power System Model Reduction," *IEEE Transactions on Power Systems*, Vol. 29, No. 5, pp. 2049-2059, September 2014.



**N. Zhou**, D. Meng, Z. Huang, and G. Welch, "Dynamic State Estimation of a Synchronous Machine using PMU Data: A Comparative Study," *IEEE Transactions on Smart Grid*, Vol. 6, No. 1, pp. 450-460, January 2015.

**N. Zhou** and J. Daggale, "Initial Results in Using a Self-Coherence Method for Detecting Sustained Oscillations," *IEEE Transactions on Power Systems*, Vol. 30, No. 1, pp. 552-530, January 2015.

## **Faculty Presentations**

**Y. Chen**, "An Optimized Design of Reconfigurable PSD Accelerator for Online Shrew DDoS Attacks Detection," Chongqing University, China, June 24, 2014.

**Y. Chen**, "Real-Time WAMI/FMV/Text Information Fusion using a Container-based Virtualization Elastic Cloud," *2014 AFRL CyberBAT/VFRP Technical Exchange Meeting (TEM)*, Rome, New York, USA, July 14, 2014.

R. Wu, B. Liu, **Y. Chen**, E. Blasch, H. Ling, and G. Chen, "Pseudo-Real-Time Wide Area Motion Imagery (WAMI) Processing for Dynamic Feature Detection," *8th IEEE Symposium on Computational Intelligence for Security and Defense Applications (IEEE CISDA)*, Verona, New York, USA, May 26-28, 2015.

P. W. Woods, Z. M. Haynes, **S. A. Craver**, and C. N. Marques, "Resilience of *Staphylococcus aureus* in Dual Species Biofilms," *115th ASM General Meeting*, New Orleans, Louisiana, USA, 2015.

A. Emrani, **T. P. Dhakal**, and **C. R. Westgate**, "CZTS Solar Cells Fabricated by Fast Sulfurization of Sputtered Sn/Zn/Cu Precursors Under H<sub>2</sub>S Atmosphere," *40th IEEE PVSC Conference*, Denver, Colorado, USA, June 8-13, 2014.

C-Y Peng, **T. P. Dhakal**, P. P. Rajbhandari, S. Garner, P. Cimo, S. Lu, and **C. R. Westgate**, "Flexible CZTS Solar Cells on Flexible Corning Willow Glass Substrates," *40th IEEE PVSC Conference*, Denver, Colorado, USA, June 8-13, 2014.

R. R. Tobias, **T. P. Dhakal**, P. P. Rahbhandari, **C. R. Westgate**, and P. Borgesen, "Electronic Loss Mechanisms of Cu<sub>2</sub>ZnSnS<sub>4</sub> (CZTS) Thin-Film Solar Cells: Perspectives from I-V and QE Measurements Coupled with 1-Dimensional Heterostructure Simulations,"

*Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

S. P. Adusumilli, J. M. Dederick, **T. P. Dhakal**, I. T. Bae, S. M. Garner, P. Cimo, **A. C. Rastogi**, A. Sharma, and **C. R. Westgate**, "Iron Pyrite Thin Films Grown through a One-step Sulfur Annealing of Iron Oxide using TBDS and H<sub>2</sub>S on Rigid and Flexible Glass Substrates," *Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

**M. L. Fowler**, "Emitter Location – Historical Overview and New Developments," Korea Advanced Institute of Science & Technology, Daejeon, South Korea, December 2, 2014.

**J. Fridrich**, "Steganography, the Past Ten Years," *SPIE Electronic Imaging Symposium*, February 6, 2015.

**Z. Jin**, "The Convergence of Life Sciences and Cyber Technologies," Vishwakarma Institute of Technology, Pune, India, August 29, 2014.

**Z. Jin**, "Emerging Neuromorphic Hardware and Its Applications in Autonomous Target Detection and Tracking," Beijing Microelectronics Technology Institute, Beijing, China, September 2, 2014.

**Z. Jin**, "Emerging Neuromorphic Hardware and Its Applications in Autonomous Target Detection and Tracking," Beijing Institute of Technology, Beijing, China, September 3, 2014.

**Z. Jin**, "Mobile and Wearable Computing in Smart Health and Assisted Living," Decker School of Nursing, Binghamton, New York, USA, November 13, 2014.

**Z. Jin**, "Brain Password: Exploring A Psychophysiological Approach for Secure User Authentication," Xerox Research Center, Webster, New York, USA, November 24, 2014.

**Z. Jin**, "The Convergence of Life Sciences and Cyber Technologies," Northwestern Polytechnical University, Xi'an, China, January 21, 2015.

**Z. Jin**, "Emerging Neuromorphic Hardware and Its Applications in Autonomous Target Detection and Tracking," Xi'an Microelectronics Technology Institute, Xi'an, China, January 22, 2015.

**Z. Jin**, "The Convergence of Life Sciences and Cyber Technologies," *IEEE Pune Section*, Pune, India, January 29, 2015.

**M. Kirchner**, "Thinking Beyond the Block: Block Matching for Copy–Move Forgery Detection Revisited," *IS&T/SPIE Electronic Imaging Conference*, San Francisco, California, USA, February 2015.

**X. Li**, "Signal Processing Oriented Big Data Privacy," AFRL, Rome, New York, USA, August 1, 2014.

**X. Li**, "Physical-layer Progress for Interference-immune Multi-hop Wireless Networking," Temple University, Philadelphia, Pennsylvania, USA, May 18, 2015.

**V. Nikulin**, "Mobile Tracking Control System for Laser Communication," Astana, Kazakhstan, June 1, 2014.

**V. Nikulin**, "Approach to Control of Hybrid Renewable Power System on the Basis of Adaptive Control with Local Parametric Optimization," Milwaukee, Wisconsin, USA, October 21, 2014.

**V. Nikulin**, "Application of Holographic Interferometry to In-plane and Out-of-plane Misalignment and Deformation Measurements in Packaging Applications," Baltimore, Maryland, USA, April 21, 2015.

**V. Nikulin**, "Analysis of the Secrecy of the Running Key in Quantum Encryption Channels using Coherent States of Light," Baltimore, Maryland, USA, April 22, 2015.

N. K. Sidhu and **A. C. Rastogi**, "A Hierarchical Nanostructure Electrode with 3-Dimensional ZnO Nanorod and Pedot Nanotube and Nanofibre Network Assembly for Supercapacitor Energy Storage," *Symposium Z: Materials Challenges for Energy Storage across Multiple Scales, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

S. Singh, **A. C. Rastogi**, F. Omenya, M. S. Whittingham, A. Lal, S. Upreti, "Electrochemical Performance of Lithium-Ion Hybrid Supercapacitors based on Activated Carbon and Nanoplatelet  $\text{Li}_4\text{Ti}_5\text{O}_{12}$  Insertion Electrode Synthesized by Nanoscission Technique," *Symposium Z: Materials Challenges for Energy Storage across Multiple Scales, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

N. K. Sidhu and **A. C. Rastogi**, "Facile Synthesis and Characterization of 3-Dimensional Nanocomposite Architecture of Zinc Oxide and Poly(3,4-ethylenedioxythiophene) for Supercapacitor Energy Storage," *Symposium JJ: 3D Mesoscale Architectures – Synthesis, Assembly, Properties and Applications, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

N. R. Janardhana, N. K. Sidhu, R. R. Thankalekshmi, and **A. C. Rastogi**, "Ionic Liquid Electrochemical Synthesis of Earth Abundant Monophase Chalcostibite p-CuSbS<sub>2</sub> Photo-absorber Thin Films for Heterojunction Solar Cells With n-ZnO," *Symposium V: Sustainable Solar-Energy Conversion Using Earth-Abundant Materials, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

A. Verma, S. Singh, and **A. C. Rastogi** "Optoelectronic Properties of Semiconducting Zinc Oxysulfide ZnO<sub>1-x</sub>S<sub>x</sub> Thin Films Synthesized by diffusion Limited Sulfurization of Zinc Oxide in di-tert-butyl disulfide Vapor Flux," *Symposium O: Oxide Semiconductors, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

A. Verma and **A. C. Rastogi** "Sulfur Alloyed n-ZnO<sub>1-x</sub>S<sub>x</sub>/n-ZnO Bilayer Thin Films for Application as Cd-Free Buffer Layer in Heterojunction Solar Cell Devices," *Symposium V: Sustainable Solar-Energy Conversion Using Earth-Abundant Materials, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

N. K. Sidhu and **A. C. Rastogi**, "Synthesis and Electrochemical Properties of Polypyrrole Conducting Polymer in Sheath like Nanotube Arrays Structured over TiO<sub>2</sub> for Supercapacitor Energy Storage Devices," *Symposium JJ: 3D Mesoscale Architectures – Synthesis, Assembly, Properties and Applications, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

N. K. Sidhu and **A. C. Rastogi** "Vertically Aligned Polypyrrole Nanostructures using TiO<sub>2</sub> Nanotube Template for Supercapacitor Electrodes by Pulsed Electropolymerization Synthesis for Energy Storage," *Symposium Z: Materials Challenges for Energy Storage across Multiple Scales, Materials Research Society (MRS) Conference*, Boston, Massachusetts, USA, November 30-December 5, 2014.

**V. Skormin**, "Detecting Attacks on Cyber-Physical Systems: The Behavioral Approach," Portland State University, Portland, Oregon, USA, January 22, 2015.

**V. Skormin**, “Behavioral Approach for Detecting of Cyber Attacks of Industrial Control Systems,” Office of Naval Research, Washington D.C., USA, February 4, 2015.

**V. Skormin**, “Behavioral Approach to Cyber Security of Cyber-physical Systems,” University of Texas, Dallas, Texas, USA, May 6, 2015.

**V. Skormin**, “Unmanned Aerial Vehicle Security using Behavioral Profiling,” *Unmanned Aerial Vehicles Conference*, Denver Colorado, USA, May 11, 2015.

H. Zhang, X. Chen, and **S. A. Zahorian**, “On the Use of Respiratory Masks for Speech Measurements,” *169<sup>th</sup> Meeting of the Acoustical Society of America*, Pittsburgh, Pennsylvania, USA, April 2015.

R. Sadeghian, M. Ratnagari, **S. A. Zahorian**, and H. T. Bunnell, “Using Automatic Speech Recognition for Diagnosis of Children’s Speech Delay,” *169<sup>th</sup> Meeting of the Acoustical Society of America*, Pittsburgh, Pennsylvania, USA, April 2015.

J. D. Schaffer, **S. A. Zahorian**, L. Bronstein, and S. Berkowitz, “Pilot Study into the Feasibility of an Automatic Diagnostic for Dementia from Speech Patterns,” *27<sup>th</sup> Annual Convention of the Association for Psychological Science*, New York, New York, USA, May, 2015.

**Z. Zhang**, “Secure Distributed Energy Management in the Presence of Misbehaving Generation Units” *IEEE Power & Energy Society General Meeting*, Washington D.C., USA, July 28, 2014.

**Z. Zhang**, “Distributed Energy Management Algorithms in Future Power Systems,” CoCo Seminar Series, Vestal, New York, USA, February 18, 2015.

**Z. Zhang**, “Incremental Cost Consensus (ICC) and Leaderless ICC Implementations in FREEDM,” *6<sup>th</sup> Conference on Innovative Smart Grid Technologies (ISGT2015)*, Washington D.C., USA, February 18, 2015.

H. Huang, **N. Zhou**, S. Elbert, S. Lu, D. Meng, S. Wang, and R. Diao, “Dynamic State Estimation Using Phasor Measurements,” *DOE Advanced Grid Modeling Peer Review Meeting*, Alexandria, Virginia, USA, June 17, 2014.

**N. Zhou**, “Oscillation Detection and Analysis,” *New York ISO Seminar*, Rensselaer, New York, USA, July 23, 2014.

**N. Zhou**, "Oscillation Detection and Analysis," Cornell University, Ithaca, New York, USA, September 10, 2014.

**N. Zhou** "Oscillation Detection and Analysis in Power Systems," *CoCo Seminar Series*, Vestal, New York, USA, March 4, 2015.

**N. Zhou** "Some Initial Thoughts on AMI Data Analysis," *AMI Data Analysis Project Kick-off Meeting*, Vestal, New York, USA, March 26, 2015.

**N. Zhou**, "AMI Data Digestion," *AMI Data Analysis Project Progress Report*, Vestal New York, USA, May 19, 2015.

***Please Note:*** All conference publications were also presented at respective conferences.