

ECE Graduate Students'

Book Chapters

J. Feng, Y. Chen, D. Summerville, and K. Hwang, "Fair Multi-Party Non-Repudiation Framework for Storage Clouds, Part II," *Cloud Computing for Enterprise Architectures*, in "Computer Communications and Networks" book series, edited by Z. Mahmood and R. Hill, published by Springer-Verlag, ISBN 978-1-4471-2236-4, 2012.

J. Feng, Y. Chen, D. Summerville, and K. Hwang, "Fair Multi-Party Non-Repudiation Framework for Storage Clouds, Part I," *Cloud Computing for Enterprise Architectures*, in "Computer Communications and Networks" book series, edited by Z. Mahmood and R. Hill, published by Springer-Verlag, ISBN 978-1-4471-2236-4, 2012.

ECE Graduate Students' Conference Publications

P. Vasekar, **S. P. Adusumulli**, D. Van Hart, T. Dhakal, and S. Desu, "Development of Zinc Phosphide as a P-type Absorber," *38th Photovoltaic Specialists Conference Proceedings*, Austin, Texas, USA, June, 2012.

S. P. Adusumulli, P. Vasekar, D. Van Hart, and T. Dhakal, "Synthesis of Zinc Phosphide Thin Film Solar Cells," *MRS Conference Proceedings*, San Francisco, California, USA, April, 2012.

P. Vasekar, **S. P. Adusumulli**, D. Van Hart, and T. Dhakal, "Development of Zinc Phosphide as an Absorber using Chemical Reflux Technique," to be published in *MRS Conference Proceedings*, Boston, Massachusetts, USA, November, 2011.

W. Cadeau and X. Li, "Anti-Jamming Performance of Cognitive Radio Networks Under Multiple Uncoordinated Jammers in Fading Environment," *46th Annual Conference on Information Sciences and Systems (CISS'2012)*, Princeton University, Princeton, New Jersey, USA, March 2012.

R. Dixit, L. Shen, M. Ratterman, I. Papautsky, and D. Klotzkin, "A Simple Single-Detector System for Simultaneous Monitoring of O₂ and CO₂ Gas Concentration," *SPIE MOEMS-MEMS*, San Francisco, California, USA, January 21-26, 2012.

A. Dolgikh, **T. Nykodym**, V. Skormin, J. Antonakos, "Colored Petri Nets as the Enabling Technology in Intrusion Detection Systems," *Proceedings MILCOM'11*, Baltimore, Maryland, USA, November 2011.

A. Dolgikh, **T. Nykodym**, V. Skormin, J. Antonakos, "Computer Network Testbed at Binghamton University," *Proceedings MILCOM'11*, Baltimore, Maryland, USA, November 2011.

J. Feng, Y. Chen, D. Summerville, and Z. Su, "An Extension of RDP Code with Parallel Decoding Procedure," *9th IEEE Consumer Communications and Networking Conference (CCNC 2012)*, Las Vegas, Nevada, USA, January 14-17, 2012.

M. Goljan and J. Fridrich, "Identifying Images Corrected for Lens Distortion Using Sensor Fingerprints," *Electronic Imaging, Media Watermarking, Security, and Forensics XIV, Proc. SPIE*, Vol. 8303, pp. 0H-1–0H-13, San Francisco, California, USA, January 23-26, 2012.

V. Holub and J. Fridrich, "Optimizing Pixel Predictors for Steganalysis," *Electronic Imaging, Media Watermarking, Security, and Forensics XIV, Proc. SPIE*, Vol. 8303, pp. 09-1--09-13, San Francisco, California, USA, January 23-26, 2012.

J. Kodovský and J. Fridrich, "JPEG-Compatibility Steganalysis Using Block-Histogram of Recompression Artifacts," *14th Information Hiding Conference*, published in LNCS by Springer-Verlag, Berkeley, California, USA, May 15-18, 2012.

J. Fridrich and **J. Kodovský**, "Steganalysis of LSB Replacement Using Parity-Aware Features," *14th Information Hiding Conference*, published in LNCS by Springer-Verlag, Berkeley, California, USA, May 15-18, 2012.

J. Kodovský and J. Fridrich, "Steganalysis of JPEG Images Using Rich Models," *Electronic Imaging, Media Watermarking, Security, and Forensics XIV, Proc. SPIE*, Vol. 8303, pp. 0A-1–0A-13, San Francisco, California, USA, January 23-26, 2012.

J. Kodovský, J. Fridrich, and **V. Holub**, "On Dangers of Overtraining Steganography to an Incomplete Cover Model," *Proc. ACM Multimedia & Security Workshop*, pp. 69-76, Niagara Falls, New York, September 29-30, 2011.

E. Li and S. Craver, "A Square-Root Law for Active Wardens," *Proceedings of the 13th ACM Workshop on Multimedia and Security (MMSEC 2011)*, Buffalo/Niagara Falls, New York, USA, September 29-30, 2011.

S. Mazur, E. Blasch, Y. Chen, and V. Skormin, "Mitigating Cloud Computing Security using a Self-Monitoring Defense Scheme," *2011 National Aerospace & Electronics Conference (NAECON'11)*, Dayton, Ohio, USA, July 20-22, 2011.

V. Skormin, **T. Nykodym, A. Dolgikh**, J. Antonakos, "Customized Normalcy Profiles for the Detection of Targeted Attacks," *Proceedings EvoStar'12, Computational Intelligence for Risk Management, Security and Defense Applications*, Malaga, Spain, April 2012.

T. Nykodym, A. Dolgikh, V. Skormin, J. Antonakos, "Automatic Functionality Detection in Behavior-Based IDS," *Proceedings MILCOM'11*, Baltimore, Maryland, USA, November 2011.

G. P. Pandey and A. C. Rastogi, "Graphene-Based All-Solid-State Supercapacitor with Ionic Liquid Gel Polymer Electrolyte," *MRS Conference Proceedings*, 1440, mrss12-1440-o04-05 doi:10.1557/opl.2012.1279, 2012.

M. Pourhomayoun and M. L. Fowler, "Sensor Network Distributed Computation for Direct Position Determination," *7th IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM2012)*, Stevens Institute of Technology, Hoboken, New Jersey, USA, June, 2012.

M. Pourhomayoun and M. L. Fowler, "De-Noising by Wiener Filter and Wavelet Based Methods for Emitter Localization Systems," *46th Annual Conference on Information Sciences and Systems (CISS'2012)*, Princeton University, Princeton, New Jersey, USA, March, 2012.

M. Pourhomayoun and M. L. Fowler, "Spatial Sparsity Based Emitter Localization," *46th Annual Conference on Information Sciences and Systems (CISS'2012)*, Princeton University, Princeton, New Jersey, USA, March, 2012.

M. Pourhomayoun and M. L. Fowler, "An SVD Approach for Data Compression in Emitter Location Systems," *45th Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, California, USA, November, 2011.

R. R. Thankalekshmi and A.C. Rastogi, "Solution Growth and Optical Characterization of Thin Films with $ZnO_{1-x}S_x$ and ZnO Nanorods in Core-Shell like Nanostructure for Solar Cell Application," *MRS Conference Proceedings*, 2012.

S. A. Zahorian, **J. Wu, M. Karnjanadecha, C. Sekhar Vootkuri, B. Wong, A. Hwang**, E. Tokhtamyshev, "Open Source Multi-Language Audio Database for Spoken Language Processing Applications," *Interspeech 2011*, August, 2011.

M. Xiang, Y. Chen, W.-S. Ku, and Z. Su, "Mitigating DDoS Attacks using Protection Nodes in Mobile Ad hoc Networks," *IEEE GlobeCom 2011- Communication & System Security Symposium*, Houston, Texas, USA, December 5-9, 2011.

J. Yu and S. Craver, "A Fast, Automatic Camera Image Stabilization Benchmarking Scheme," *Proceedings of SPIE, Image Quality and System Performance IX*, Vol. 8293, San Francisco, California, USA, January 23, 2012.

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Articles

Y. Gao, **S. P. Adusumilli**, J. Turner, L. Lesperance, C. R. Westgate, and B. Sammakia, "Factors Affecting the Growth of Carbon Nanofibers on Titanium Substrates and Their Electrical Properties," *Journal of Nanoscience and Nanotechnology*, Vol. 12, pp. 1–11, 2012.

J. Feng and Y. Chen, "A Fair Non-Repudiation Framework for Data Integrity in Cloud Storage Services," *International Journal of Cloud Computing*, Vol. 1, No. 2, 2012.

J. Feng, Y. Chen, and D. Summerville, "A Survey on XOR-based Erasure Codes for Canonical Storage Systems," *International Journal of Information, Intelligence and Knowledge (JIJK)*, Vol. 4, Issue 2, 2012.

Z. Ge, P. Moat, J. Xie, **J. Hu**, J-S. Huang, X. Sun, N. Li, B. E. White Jr., and D. Klotzkin, "Thermal Conductivity of 1.3um InAs/GaAs Quantum Dot Laser Active Material from Chirp and 3w Measurements," *Applied Physics Letters*, Vol. 100, 082108, 2012.

S. A. Zahorian, A. J. Zuckerwar, and **M. Karnjanadecha**, "Dual Transmission Model of the Fetal Heart Sounds," *Elsevier Computer Methods and Programs in Biomedicine*, COMM3323, 10.1016/j.cmpb.2011.12.006, January 28, 2012.

J. Kodovský, J. Fridrich, and **V. Holub**, "Ensemble Classifiers for Steganalysis of Digital Media," *IEEE Trans. on Info. Forensics and Security* 7(2), pp. 432–444, 2012.

J. Fridrich and **J. Kodovský**, "Rich Models for Steganalysis of Digital Images," *IEEE Trans. on Info. Forensics and Security*, 2012.

G. P. Pandey and A. C. Rastogi, "Solid-State Supercapacitors based on Pulse Polymerized Poly(3,4-ethylenedioxythiophene) Electrodes and Ionic Liquid Gel Polymer Electrolyte," *Journal of the Electrochemical Society*, 2012.

R. R. Thankalekshmi, S. Dixit, and A.C. Rastogi, "Doping Sensitive Optical Scattering in ZnO Nanostructured Films for Solar Cells," *Advanced Materials Letters*, 2012.

R. R. Thankalekshmi and A.C. Rastogi, "Simulation of a Spin Field Effect Transistor based on Magnetic Impurity Doped ZnO," *Journal of Applied Physics* 111, 07D104 (2012); doi: 10.1063/1.3671790, 2012.

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ECE Graduate Students' Presentations

M. Karnjanadecha and S. A. Zahorian, "An Automatic Method for Determining Phonetic Boundaries for Continuous Speech Utterances in an Open Source Multi-Language Audio/Video Database," *162nd Meeting of the Acoustical Society of America*, San Diego, California, USA, October 30-November 3, 2011.

G. P. Pandey and A. C. Rastogi, "Poly(3,4-ethylenedioxythiophene)-Graphene Composite Electrodes For Solid-State Supercapacitors with Ionic Liquid Gel Polymer Electrolyte," *221st Meeting of the Electrochemical Society*, Seattle, WA, USA, May 5-10, 2012.

G. P. Pandey and A. C. Rastogi, "Graphene-Based All-Solid-State Supercapacitor with Ionic Liquid Gel Polymer Electrolyte," *2012 Spring Meeting of the Materials Research Society*, San Francisco, California, USA, April 9-13 2012.

G. P. Pandey and A. C. Rastogi, "Pulse Polymerized Poly(3,4-ethylenedioxythiophene) Electrodes For Solid-State Supercapacitors with Ionic Liquid Gel Polymer Electrolyte," *2012 Spring Meeting of the Materials Research Society*, San Francisco, California, USA, April 9-13 2012.

R. R. Thankalekshmi and A.C. Rastogi, "Solution Growth and Optical Characterization of Thin Films with $ZnO_{1-x}S_x$ and ZnO Nanorods in Core-Shell like Nanostructure for Solar Cell Application," *2012 Spring Meeting of the Materials Research Society*, San Francisco, California, USA, April 9-13 2012.

R. R. Thankalekshmi, S. Dixit, and A.C. Rastogi, "Doping Sensitive Optical Scattering in ZnO Nanostructured Films for Solar Cells," *International Conference on Nanomaterials & Nanotechnology (ICNANO)*, University of Delhi, Delhi, India, December 18-21, 2011.

R. R. Thankalekshmi and A.C. Rastogi, "Simulation of a Spin Field Effect Transistor based on Magnetic Impurity Doped ZnO," *56th Magnetism and Magnetic Materials Conference*, Scottsdale, Arizona, USA, October 30-

November 3, 2011.

S. A. Zahorian and **B. Wong**, "Spectral Amplitude Nonlinearities for Improved Noise Robustness of Spectral Features for Use in Automatic Speech Recognition," *162nd Meeting of the Acoustical Society of America*, San Diego, California, USA, October 30-November 3, 2011.

S. A. Zahorian, **J. Wu**, and **M. Karnjanadecha**, "Non-Symmetric Time Resolution for Spectral Feature Trajectories," *162nd Meeting of the Acoustical Society of America*, San Diego, California, USA, October 30-November 3, 2011.

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