VIII. PUBLICATIONS

VIII.1 Summary Numbers

A. Books / Book Chapters / Note Sets 2/18/3
B. Papers Published or accepted in Refereed Scientific Journals................................92
C. Papers Submitted to Refereed Scientific Journals ....
D. Complete Papers Published in Refereed Conference Proceedings..........................191
F. Papers Submitted to Refereed Conferences 2
G. Technical Reports 8
H. Patents 7
       Total 320

A. Books / Book Chapters / Notes Sets

A1 1. Mohammadian, Hatzinakos, D., R. Spachos P.and Jentzsch, R.,, "A Framework for wireless information Technology in Healthcare for User and data Classification in Hospital Software Development", Handbook of Research on Advancing Health Education through Technology., Prof. V.C.X. Wang, Editor, IGI Global. 09-2015

A2 Mohammmadian , M., and Hatzinakos, D., "Security Risks Assessment Based on Intelligent Systems and Attack Graphs ", in Smart Data : Privacy Meets Evolutionary Robotics, I. Harvey et al (eds.), Springer, Chapter 14,03-2013,

A3 Mohammadian , M. and Hatzinakos, D., "An Adaptive Intelligent Fuzzy Logic Classifier for Data Security and Privacy in Large Databases", in Smart Data : Privacy Meets Evolutionary Robotics, I.Harvey et al (eds.), Springer, Chapter 15,03-2013

A4 "Smart Data: Privacy Meets Evolutionary Robotics"mHarvey, I.; Cavoukian, A.; Tomko, G.; Borrett, D.; Kwan, H.; Hatzinakos, D. (Eds.), Springer, 2013.

A5 Song, L., Spachos, P. and Hatzinakos, D., "Self-Organization and Green Applications in Cognitive Radio Networks", IGI Global 2012, recipient of Best Paper award in the "New Applications of Cognitive Principles to Communications" Category of the WUN Cogcom Best Paper awards 2013

A6 Agrafioti, F., Gao, J. and Hatzinakos, D., "Heart Biometrics: Theory , Methods and Applications", Biometrics, Dr., Jucheng Yang (Ed), In Tech 2011, 2011

A7 Foteini Agrafioti, F. Bui and Dimitrios Hatzinakos, "Medical Information Management with ECG Biometrics: A Secure and Effective Framework", , a chapter in "Handbook on Ambient Assisted Living for Healthcare, Well-being and Rehabilitation", Paul McCullagh ed. , IOS Pbs, 2011

A8 Liang Song and Dimitrios Hatzinakos, "Wireless Sensor Networks: From application specific to modular design", a chapter in Wireless Sensor Networks", Vedran Kordic, Editor, IN-TECH, 2010, ISBN:978-3-902613-49-3

A9 Masoud Mohammadian and D. Hatzinakos, "What Data Should be Encrypted?", a chapter in "Intelligent Soft Computation and Evolving Data Mining" Integrating Advanced Technology", , Leon, S. L. Wang, T.P. Hong Editors, IGI Global, 2009.

A10 S. Stergiopoulos, A. Freibert, J. Zhang and D. Hatzinakos, "Non-Invasive Monitoring of Vital Signs and Traumatic Brain Injuries", a chapter in *Advanced Signal Processing Handbook: Theory and Implementation for Radar, Sonar and Medical Imaging Real-Time Systems*, 2nd edition, S. Stergiopoulos: Editor, CRC Press, 2008

A11 K. Karthik and D. Hatzinakos, "Multimedia Encoding Methodologies for Selective access with Traitor Tracing", VDM Verlag Dr. Muller Publishing House, 2008

A12 Bui, F. Agrafioti, and D. Hatzinakos, "Electrocardiogram (ECG) biometric for robust identification and secure communication, in Biometrics: Theory, Methods and Applications, N. Boulgouris, E. Micheli-Tzanakou, and K. Plataniotis, Eds. Wiley, (61 pages) Submitted Oct. 2007, to appear late 2009.

A13 D. Hatzinakos, A. Giannoula and J. Han, Blind reconstruction of multiframe imagery based on fusion and classification, in Blind image deconvolution: theory and applications, Chapter 10, , P. Campisi, K. Egiazarian, eds., CRC, 2006, in Press.

A14 D. Kundur, K. Su and D. Hatzinakos, 'Digital Video Watermarking: Techniques, Technology and Trends,'in *Intelligent Watermarking Techniques*, Chapter 10, P. J.-S. Pan, H.-C. Huang and L. Jain, eds., World Scientific Publishing Company, pp. 265-314, 2004.

A15 D. Hatzinakos and R. Pacheco , 'Spatiotemporal Signal Processing in Wireless Communications', a chapter in *Encyclopedia of Telecommunications*, vol 5, pp. 181-258, edited by J. Proakis, John Wiley and Sons, 2003.

A16 K. N. Plataniotis, and D. Hatzinakos, 'Gaussian Mixtures and their Applications in Signal Processing', a chapter in *Advanced Signal Processing Handbook: Theory and Implementation for Radar, Sonar and Medical Imaging Real-Time Systems*, S. Stergiopoulos: Editor, CRC Press, 2001

A17 D. Hatzinakos, 'Signal Processing with Higher-Order Statistics', in *Encyclopedia of Optimization*, edited by C. Floudas and P. Pardalos, Kluwer Academic Publishers, 2001

A18 D. Hatzinakos, 'Blind Deconvolution: System Identification and Equalization', a chapter in *Control and Dynamic Systems, Vol 68*, edited by C. T. Leondes, Academic Press, pp. 279-331, 1995.

A19 D. Hatzinakos, 'Higher-Order Spectral Analysis', a chapter in *Control and Dynamic Systems, Vol 65*, edited by C. T. Leondes, Academic Press, pp. 115-168, 1994.

A20 D. Hatzinakos and C. L. Nikias, 'Blind Equalization Based on Higher-Order Statistics (H.O.S.)', a chapter in the book *Blind Deconvolution*, edited by S. Haykin, Prentice Hall, Englewood Cliffs, pp. 181-258, 1994.

A21 D. Hatzinakos, 'Spectral Analysis and Array Processing', Set of Notes, 370 pages, University of Toronto Bookstores, Custom Publishing Service, 1993.*

A22 D. Hatzinakos, 'Stochastic Processes', Set of Notes, 230 pages, University of Toronto, 1994. *

A23 D. Hatzinakos, 'Signal Processing', Set of Notes, 250 pages, University of Toronto, 1997. *

* Professionally prepared non-refereed notes designed for graduate and continuing education courses.

B. Papers Published or accepted in Refereed Scientific Journals

B1 ⋆ **Majid Komeili, Wael Louis**, Narges Armanfard and Dimitrios Hatzinakos, " Feature Selection for Non-Stationary Data:Application to Human Recognition Using Medical Biometrics", IEEE Transactions on Cybernetics, acceptred, February 2017.

B2 ⋆ **Wael Louis, Shahad Abdulnour, Sahar Javaher Haghighi** and Dimitrios Hatzinakos," On Biometric Systems: Electrocardiogram Gaussianity and Data Synthesis", EURASIP Journal on Bioinformatics and bio-enginering, accepted, january 2017.

B3 Samiul Haque, S. M. Mahbubur Rahman and Dimitrios Hatzinakos, " Gaussian-Hemite Moment based Depth stimation from Single Still Image for Stereo vision", Journal of Visual Communication and Image Representation, accepted, Oct. 2016

B4 S M. Mahbubur Rahman and D. Hatzinakos, " On the Selecion of 2D Krawtchouk Moments for Face Recognition", Pattern Recognition, Accepted, Sept. 2016

B5 Seif Muhhamad Imran, S.M. Mahbubur Rahman and D. Hatzinakos, " Differential components of discriminative @D Gaussian-Hermite moments for Recognition of Facial Expression", Pattern Recognition, accepted, Sept. 2016.

B6 ⋆ **Majid Komeili**, Narges Armanfard and Dimitrios Hatzinakos, " Liveness Detection and Automatic Template updating using Fusion of ECG and Fingerprint", IEEE Transactions on Information Forensics and Security, Submitted, Dec. 2016.

B7 ⋆ **Wael Louis, Majid Komeili** and Dimitrios Hatzinakos, " Continuous Authentication Using One Dimensional Multi-Resolution Local Binary Patterns (1DMRLBP) in ECG Biometrics" , IEEE Transactions on Information Forensics and Security, Vol. 11 (12), pp. 2818-2832, December 2016.

B8 Spachos, P., and Hatzinakos, D., "Real-Time Indoor Carbon Dioxide Monitoring trhough Cognitive Wireless Sensor Networks",IEEE Sensors Journal, Vol 16(2), pp 506-514, January 2016

B9 Imran, S. M., Rahman, R.S.M., and Hatzinakos, D., "Differential Components of Discriminative 2D Gaussian-hermite Moments for Recognition of Facial expressions, Pattern Recognition, Elsevier, accepted for publication.

B10 Liu, Y. and Hatzinakos, D., "Biohashing for Human Acoustic Signature based on Random Projections", Canadian Journal of Electrical and Computer Engineering¡ Vol 38(2), pp. 1-8, 4-2015.

B11 Khuwaja, G. A., Haghighi, S.J. and Hatzinakos, D., "40 Hz ASSR Fusion Classification System for Observing Sleep Patterns", EURASIP Journal on Bioinformatics and Systems Biology, accepted January 2015..

B12 Liu, Y. and Hatzinakos, D. , "Earprint: Transient Evoked Otoacoustic Emission for Biometrics", IEEE Transactions on Information Forensics and Security, vol. 9(12), pp. 2291-2301, December 2014.

B13 Pouryayevali, S., Wahabi, S., Hari, S. and Hatzinakos, D., "On Evaluating ECG Biometric Systems: Session-Dependency and Body Posture" IEEE Transactions on Information Forensics and Security, vol. 9(11), pp.2002-2012, December 2014.

B14 P. Spachos and D. Hatzinakos, "Scalable Dynamic Routing Protocol for Cognitive Radio Sensor Networks", IEEE Sensors Journal, Vol. 14(7), pp. 2257-2266, July 2014.

B15 H. Mohammadzade and D. Hatzinakos, "Expression Subspace Projection for Face Recognition from Single Smple per Person", IEEE Trans. on Affective Computing, Vol 4(10), pp. 69-82, Jan-March 2013.

B16 H. Mohammadzade, and D. Hatzinakos , "Iterative Closest Normal Point for 3D Face recognition", IEEE Transactions on Pattern Recognition and Machine Intelligence, Vol. 35(2), pp. 381-397, 2013.

B17 F. Agrafioti, F. Bui and D. Hatzinakos, "Secure Telemedicine: Biometrics for Remote and Continuous Patient Verification", Journal of Computer Networks and Communications, Vol 2012, Article ID 924791, 11 pages , 2012. doi:10.1155/2012/924791.

B18 Tahir Amin, and D. Hatzinakos, "Determinants in Human Gait Recognition", Journal of Information Security, (vol. 3) no 2., 04-2012.

B19 F. Agrafioti, D. Hatzinakos and K. Anderson, "ECG Pattern Analysis for Emotion Detection", IEEE Transactins on Affective Computing, Vol. 3(1), pp. 102-115, Jan-March 2012.

B20 Y. Wang and D. Hatzinakos, "On Random Transformations for changeable face verification", IEEE Transactions on Systems, Man and Cybernetics, Part B, vol(41(3), pp. 840-854, June 2011.

B21 Francis M. Bui and Dimitris Hatzinakos, Quality of Service (QOS) Regulation in Secure Body Area Networks: System Modeling and adaptation methods, EURASIP Journal on Wireless Communications and networking Special Issue on Towards the Connected Body: Advances in Body communications, Volume 2011, Article ID 641867, 14 pages, 2011. DOI:10.1155/2011/641867

B22 F. Agrafioti, F. M. Bui, D. Hatzinakos, Medical Biometrics in Mobile Health Monitoring, Wiley's Security and Communication Networks Journal - Special Issue on Biometric Security for Mobile Computing, July 2010, 10.1002/sec.227.

B23 Francis M. Bui*, Karl Martin, Haiping Lu, Konstantinos N. Plataniotis, Dimitrios Hatzinakos, "Fuzzy Key Binding Strategies Based on Quantization Index Modulation (QIM) for Biometric Encryption (BE) Applications" , IEEE Trans. on Forensics and Security, Vol 5(1),pp 118-132, March 2010

B24 Karl Martin, Haiping Lu, Francis Bui, K. N. Plataniotis, D. Hatzinakos, "A Biometric Encryption System for the Self-Exclusion Scenario of Face Recognition", IEEE Systems Journal, Special Issue on Biometric Systems, , Vol. 3(4), pp.440-450, Dec.2009.30 pages, accepted October 9, 2009.

B25 M. Mohammadian and D. Hatzinakos, Data classification process for security and privacy based on a fuzzy logic classifier, Int. J. Electronic Finance , Inderscience Publishers, Vol. 3(4), pp. 374-385, October 2009

B26 Yongjin Wang and Dimitrios Hatzinakos, "Sorted Index Numbers for Privacy Preserving Face Recognition," EURASIP Journal on Advances in Signal Processing, vol. 2009, Article ID 260148, 16 pages, doi: 10.1155/2009/260148.

B27 Liang Song and D. Hatzinakos, "Cognitive Networking of Large Scale Wireless Systems", International Journal of Communication Networks and Distributed Systems, Special Issue on "Data Management in Ad Hoc and Sensor Networks for the Information Explosion Era,Vol. 2(4), pp 452-475, 2009.

B28 Liang Song and D. Hatzinakos, "Real Time Communications in Large Scale Wireless Systems", International Journal of Multimedia Broadcasting, Vol. 2008, article ID 586067, doi:10.1155/2008/58067, 2008.

B29 F. Agrafioti and D. Hatzinakos, "ECG Biometric Analysis in Cardiac Irregularity Conditions", Signal, Image and Video Processing, Springer, pp 1863-1703, September 2008.

B30 Liang Song and D. Hatzinakos, "Energy Efficient Limits of Broadcasting in Wireless Networks", IEEE Transactions on Wireless Communications, Vol 7(7), pp. 2502-2511, July 2008.

B31 M. Bui and D. Hatzinakos, "Biometric Methods for Secure Communications in Body Sensor Networks: Resource Efficient Key Management and Signal-level data Scrambling", *Hindawi Publishing Corporation EURASIP Journal on Advances in Signal Processing* Volume 2008, Article ID 529879, pp. 1-16, 2008.

B32 Y. Wang, F. Agrafioti, D. Hatzinakos and K.N. Plataniotis, " Analysis of Human Electrocardiogram (ECG) for Biometric Recognition", *Hindawi Publishing Corporation EURASIP Journal on Advances in Signal Processing* Volume 2008, Article ID 148658, , 11 pages, 2008

B33 Xin C. Guo and D. Hatzinakos, "Image Authentication Using Added Signal-Dependent Noise", *Research Letters in Signal Processing*, Research Letters in Signal Processing, Volume 2007 (2007), Article ID 47549, 5 pages, doi:10.1155/2007/47549.

B34 L. Song, and D. Hatzinakos, 'MSSN: Architecture of Sensor Networks with Mobile Sinks: Sparsely Deployed Sensors', *IEEE Trans. on Vehicular Technology*, Vol. 56(4), pp.1826-1836, July 2007.

B35 L. Song and D. Hatzinakos, 'Architecture of Wireless Sensor Networks with Mobile Sinks: Multiple Access Case, *International Journal of Distributed Sensor Networks*, vol 3(3), pp.289-310, July 2007.

B36 K. Karthik and D. Hatzinakos, 'Decryption Key Design for Joint Fingerprinting and Decryption in the Sign bit Plane for Multicast Content Protection', *International Journal of Networtk Security*, Vol. 4(3), pp. 254-265, May 2007, (on-line:http://ijns.nchu.edu.tw/).

B37 L. Song and D. Hatzinakos, 'A Cross Layer Architecture, of Dense Wireless Sensor Networks for Target Tracking', *IEEE Transactions on Networking*, Vol. 15(1), pp.145-158, Feb.2007.

B38 L. Song and D. Hatzinakos, 'Cooperative Transmission in Poisson Distributed Wireless Sensor Networks', *IEEE Trans. on Wireless Comm.*, Vol. 5(10), pp. 2834-2843, Oct. 2006.

B39 D. D. Lin, R. Pacheco, T.J. Lim and D. Hatzinakos, 'Joint Estimation of Channel Response, Frequency Offset and Phase Noise in OFDM,', *IEEE Transactions on Signal Processing*, Vol. 54(9), pp. 3542-3554, Sept. 2006.

B40 L. Song and D. Hatzinakos, 'Architecture of Wireless Sensor Networks with Mobile Sinks: Multiple Access Case, *International Journal of Distributed Sensor Networks*, June 2007..

B41 F. M. Bui and D. Hatzinakos, 'Spectrally Efficient Communication over Time-Varying Frequency-Selective Mobile Channels: Variable-Size Burst Construction and Adaptive Modulation', *EURASIP Journal on Applied Signal Processing*, vol. 2006, Article ID 35352, 16 pages, 2006.

B42 A. Giannoula, N. Boulgouris, D. Hatzinakos, and K. Plataniotis, K., 'Watermark Detection for Noisy Interpolated Images', *IEEE Trans. on Circuits and Systems II*, Vol. 53(5), pp. 359-363, May, 2006.

B43 N. V. Boulgouris, K. N. Plataniotis, and D. Hatzinakos, "Gait recognition using linear time normalization" ELSEVIER Pattern Recognition, Vol 39, pp. 969-976, May 2006

B44 F. Bui, and D. Hatzinakos, "A Receiver-based Variable Size Burst Equalization Strategy for Spectrally Efficient Wireless Communications", *IEEE Trans. on Signal Processing*, Vol. 53(11), pp. 4304-4314, Nov. 2005.

B45 R. Lukac, K. N. Plataniotis, D. Hatzinakos, and M. Aleksic, 'A new CFA Interpolation Framework,'*Submitted to Elsevier Science: Signal Processing*, accepted September 2005.

B46 R. Lukac, K. N. Plataniotis, D. Hatzinakos, 'Color Image Zooming on the Bayer Pattern,'*IEEE Trans. on Circuits and Systems for Video Technology*, Vol. 15(11), pp. 1475-1492, Nov. 2005

B47 N. Boulgouris, K. Plataniotis and D. Hatzinakos, "Gait Reconstruction: A Challenging Signal Processing Technology fotr Biometric Identification", *IEEE Signal Processing Magazine*, Vol. 22(6), pp. 78-90, November 2005.

B48 R.A. Pacheco and D. Hatzinakos , 'Blind Decoder Assisted Interference Reduction for coded DS-CDMA Systems', *Adaptive Control and Signal Procesing*, accepted April 28, 2005.

B49 R. Pacheco, O. Ureten, D. Hatzinakos and N. Serinken, "Bayesian Frame Synchronization Using Periodic Preamble for OFDM Based WLANs",*IEEE Signal Processing Letters*, Vol. 12(7), July 2005.

B50 F. Bui, and D. Hatzinakos, "A Receiver-based Variable Size Burst Equalization Strategy for Spectrally Efficient Wireless Communications", *IEEE Trans. on Signal Processing*, to appear November 2005

B51 R. Lukac, K. N. Plataniotis, D. Hatzinakos, 'Color Image Zooming on the Bayer Pattern,'*IEEE Trans. on Circuits and Systems for Video Technology*, Vol. 15(11), pp. 1475-1492, Nov. 2005

B52 K. Su, D. Kundur and D. Hatzinakos, "Statistical Invisibility for Collusion-resistant Digital Video Watermarking," *IEEE Transactions on Multimedia*, Vol. 7(1), pp. 43-51, February, 2005.

B53 K. Su, D. Kundur and D. Hatzinakos, "Spatially Localized Image-dependent Watermarking for Statistical Invisibility and Collusion Resistance," *IEEE Transactions on Multimedia*,Vol. 7(1), pp. 52-66, February, 2005 .

B54 R. Lukac, K. Plataniotis, D. Hatzinakos,and M. Aleksic, "A Novel Cost Effective Demosaicing Approach", *IEEE Trans. on Consumer Electronics*, Vol. 50(1), pp. 256-261, Feb. 2004.

B55 D. Kundur and D. Hatzinakos, 'Towards Robust Logo Watermarking using Multiresolution Image Fusion,'*IEEE Transactions on Multimedia*, vol. 6, no. 1, pp. 185-198, February 2004.

B56 Maalej, M., Karasaridis, A., Pantazopoulou, S., Hatzinakos, D. 'Structural Health Monitoring of Smart Structures,'*Smart Materials and Structures*, Vol. 11, No. 4, pp. 581-589, 2002.

B57 P. Campisi, D. Kundur, D. Hatzinakos and A. Neri, 'Compressive Data Hiding: An unconventional Approach for Improved Color Image Processing', *Journ. Of Applied Signal Processing, Special issue on Emerging Applications of Data Hiding*, vol 2002(2), pp. 152-163, Feb. 2002.

B58 D. Kundur and D. Hatzinakos, 'Diversity and Attack Characterization for Improved Robust Watermarking,'*IEEE Trans. on Signal Processing*, Vol. 49(9), pp. 2383-2396, October 2001.

B59 A. Karasaridis and D. Hatzinakos, 'Network Heavy Traffic Modeling using alpha-stable Self-Similar Processes', *IEEE Trans. on Communications*, Vol 49(7), pp. 1203-1214, July 2001

B60 Patrizio Campisi, D. Hatzinakos and Alessandro Neri, 'A perceptually Lossless, Model Based, Texture Compression Technique', *IEEE Trans. on Image Processing*, Vol. 9(8), pp. 1325-1336, August 2000.

B61 A. M. Kuzminskiy and D. Hatzinakos, 'Semi-blind spatio-temporal processing with temporal scanning for short burst SDMA systems', *Signal Processing*, Elsevier, Vol. 80(10), pp. 2063-2073, October 2000.

B62 D. Hatzinakos, 'Signal Processing Technologies for Short Burtst Wireless Communications', Editorial, *Signal Processing*, Elsevier, Vol. 80(10), October 2000.

B63 P. Campisi, J. Yan and D. Hatzinakos, 'Signal Dependent Film Grain Noise Generation using Homomorphic Adaptive Filtering', *IEE Proceedings -Vision, Image and Signal Processing*, Vol. 147(3), pp. 283-287, June 2000.

B64 D. Kundur, D. Hatzinakos and H. Leung, 'Robust Classification of Blurred Imagery,'*IEEE Trans. on Image Processing*, February 2000

B65 Wing Ip Tam, K. Plataniotis and D. Hatzinakos, 'An Adaptive Gaussian Sum Algorithm for Radar Tracking', *Signal Processing, Elsevier*, Vol. 77(1), pp. 85-104, August 1999.

B66 D. Kundur and D. Hatzinakos, 'Digital Watermarking for Telltale Tamper-Proofing and Authentication', *Proceedings of IEEE - Special issue on Identification and Protection of Multimedia Information*, Vol. 87(7), pp. 1167-1180, July 1999.

B67 M. Maalej, A. Karasaridis, D. Hatzinakos and S. J. Pantazopoulou, 'Spectral Analysis of Sensor Data in Civil Engineering Structures', *Computers and Structures*, Vol. 70, pp. 675-689, 1999.

B68 D. Kundur and D. Hatzinakos, 'Improved robust watermarking through attack characterization', *Optics Express - http://epubs.osa.org/opticsexpress*, Vol. 3(12), pp. 485-491, Dec. 1998.

B69 D. Kundur and D. Hatzinakos, 'On the use of Lyapunov Criteria to Analyze the Convergence of Blind Deconvolution Algorithms', *IEEE Transactions on Signal Processing*, Vol. 46(11), pp. 2918-2925, Nov. 1998.

B70 A. M. Kuzminskiy and D. Hatzinakos, 'Semi-blind estimation of spatio-temporal filter coefficients based on a training-like approach,'*IEEE Signal Processing Letters*, Vol. 5(9), pp. 231-233, September 1998.

B71 J. Ilow, and D. Hatzinakos, 'Analytic Alpha-Stable Noise Modeling in a Poisson Field of Interferers or Scatterers', *IEEE Trans. on Signal Processing*, Vol. 46(6), pp. 1601-1611, June 1998.

B72 J. Ilow and D. Hatzinakos, 'Applications of the Empirical Characteristic Function to Estimation and Detection Problems', *Signal Processing*, Elsevier Ed., Vol 65(2), pp. 199-219, March 1998

B73 J. Ilow, D. Hatzinakos and A. N. Venetsanopoulos, 'Performance of FH SS Radio Networks with Interference Modeled as a Mixture of Gaussian and Alpha-Stable Noise', *IEEE Transactions on Communications*, Vol. 46(4), pp. 509- 520, April 1998.

B74 D. Kundur and D. Hatzinakos, 'A Novel Blind Deconvolution Scheme for Image Restoration Using Recursive Filtering', *IEEE Transactions on Signal Processing*, Vol. 46(2), pp. 375-390, Feb. 1998.

B75 J. Ilow, and D. Hatzinakos, 'Detection in Alpha-Stable Noise Environments Based on Prediction', *Intern. Journal of Adaptive Control and Signal Processing*, Vol. 11(7), October 1997.

B76 S. Prakriya and D. Hatzinakos, 'Blind Identification of Liner Subsystems of LTI-ZMNL-LTI Models with Cyclostationary Inputs', *IEEE Transaction on Signal Processing*, Vol. 45(8), pp. 2023-2036, August 1997.

B77 D. Kundur and D. Hatzinakos, 'Blind Image Deconvolution Revisited', *IEEE Signal Processing Magazine*, pp. 61-63, Nov. 1996.

B78 G. Leung and D. Hatzinakos, 'Implementations Aspects of of Various H.O.S. Estimators', *Journal of the Franklin Institute-Special Issue on H.O.S.*, Vol. 333(3), pp. 349-367, 1996.

B79 D. Kundur and D. Hatzinakos, 'Blind Image Deconvolution: An Algorithmic Approach to Practical Image Restoration', *IEEE Signal Processing Magazine*, review article, pp. 43-64, May 1996.

B80 S. Prakriya and D. Hatzinakos, 'Blind Identification of LTI-ZMNL-LTI Nonlinear Models', *IEEE Transactions on Signal Processing*, Vol. 43. No. 12, pp. 3007 - 3013, Dec. 1995.

B81 D. Hatzinakos, 'Blind Equalization Based on Prediction and Polycepstra Principles', *IEEE Transactions on Communications*, Vol. 43, NO. 2/3/4, part I, pp. 178-181, February 1995.

B82 D. Hatzinakos, 'Nonminimum Phase Channel Deconvolution Using the Complex Cepstrum of The Cyclic Autocorrelation', *IEEE Transactions on Signal Processing*, Vol. 42, No. 11, pp. 3026-3042, Nov. 1994.

B83 J. W. Ilow, D. Hatzinakos and A. N. Venetsanopoulos, 'Blind Equalizers with Simulated Annealing for Digital Communication Systems', *Int. J. of Adaptive Control and Signal Processing*, Vol. 8, No. 5, pp. 501-522, 1994.

B84 D. Hatzinakos, 'Blind Equalization Using Decision Feedback Prediction and Tricepstrum Principles', *Signal Processing*, Elsevier Pbl., Vol. 36 , No. 3, pp. 261-276, April 1994.

B85 S. Ambike, J. Ilow and D. Hatzinakos, 'Detection for Binary Transmission in a Mixture of Gaussian Noise and Impulsive Noise Modeled as an Alpha-Stable Process', *IEEE Signal Processing Letters*, Vol. 1, No.3, pp. 55-57, March 1994.

B86 D. Hatzinakos, 'Analysis of Floating Point Roundoff Errors in the Estimation of Higher-Order Statistics', *IEE Proceedings-F*, Vol. 140, No. 6, pp. 371-379, Dec. 1993.

B87 D. Hatzinakos, 'Blind Equalization Using Stop-and-Go Adaptation Rules', *Optical Engineering*, Vol. 31, No. 6, pp. 1181-1188, June 1992.

B88 D. Hatzinakos, 'Carrier Phase Tracking and Tricepstrum-Based Blind Equalization', *Computers & Electrical Eng.*, Pergamon Press plc., Vol. 18, No. 2, pp. 109-118, March 1992.

B89 D. Hatzinakos and C. L. Nikias, 'Blind Equalization using a Tricepstrum based Algorithm', *IEEE Transactions on Communications*, Vol. 39, No. 5, pp. 669-682, May 1991.

B90 D. Hatzinakos, C. L. Nikias and A. N. Venetsanopoulos, 'A Massively Parallel Architecture for Quadratic Digital Filters', *IEEE Transactions on Circuits and Systems*, Vol. CAS-37, No. 1., p.p. 127-132, January 1990.

B91 D. Hatzinakos and K. Feher, 'Performance of Wideband, Nonlinearly Amplified PAM Cable Systems', *Int. Journal of Digital & Analog Cabled Systems*, Vol. 2, pp. 29-33, May 1989.

B92 D. Hatzinakos and C. L. Nikias, 'Estimation of Multipath Channel Response in Frequency Selective Channels', *IEEE Journal Selected Areas in Communications*, Vol. 7, No. 1, pp. 12-19, January 1989.

C.   Papers Submitted to Refereed Scientific Journals

D.   Complete Papers Published in Refereed Conference Proceedings

D1 Sudipta Paul, Nurani Saoda, S. M. Mahbubur Rahman and Dimitrios Hatzinakos. (2016), "Mutual Information -Based Selection of Audiovisual Affective Features to Predict Instantaneous Emotional State", ICCT'2016, Dhaka, Bangladesh, Dec 2016

D2 Rafiul Amin, A. Farhan Shams, S. M. Mahbubur Rahman and Dimitrios Hatzinakos. (2016).,"Evaluation of Discrimination Power of Facial Prats from 3D Point Cloud Data", ICECE'2016, Dhaka, Bangladesh , Dec. 2016

D3 M. Mohammadian and D. Hatzinakos. (2016," Intelligent Systems for Data Classifications for Secure Data Operations and User Access", International Conference on Reliability, Infocom Technologies and Optimization (ICRITO), Noida, India (286-292), Sept. 2016

D4 ⋆ **Sahar Haghighi** and Dimitrios Hatzinakos. (2016), "40-Hz ASSR depth of anaesthesia index", European Signal Processing Conference (EUSIPCO), Budapest, Hungary, Sept. 2016

D5 Komeili, M, Louis, W., Armanfard, N., and Hatzinakos D., " On Evaluating Human Recognition using Electrocardiogram Signals: from Rest to Exercise", IEEE 29th Canadian Conference on Electrical and Computer Engineering (CCECE'2016), Vancouver, BC, May 2016, Accepted.

D6 Louis, W. and Hatzinakos, D. "Real-time Heartbeat Outlier Removal in Electrocardiogram (ECG) Biometric System", IEEE 29th Canadian Conference on Electrical and Computer Engineering (CCECE'2016), Vancouver, BC, May 2016, Accepted.

D7 Louis, W. and Hatzinakos, D. "Enhanced Binary Patterns for Electrocardiogram (ECG) Biometrics", 29th Canadian Conference on Electrical and Computer Engineering (CCECE'2016), Vancouver, BC, May 2016, Accepted.

D8 Haghighi, S., komeili, M., and Hatzinakos, D. "Predicting the Depth of Anesthesia with 40-Hz ASSR", IEEE 29th Canadian Conference on Electrical and Computer Engineering (CCECE'2016), Vancouver, BC, May 2016, Accepted

D9 Spachos, P. and Hatzinakos, D. , ""Self-powered wireless sensor networks for environmental monitoring", IEEE Global Communcations (GLOBECOM'2015), San Diego, CA, p.p 1-5, 12-2015.

D10 Spachos, P., Toumbarakis D., and Hatzinakos D., "QoS and Energy Aware Dynamic Routing in Wireless Multimedia Sensor Networks", International Conference on Comunications, (ICC'2015), LOndon , U.K., pp. 1-5, 06-2015.

D11 Komeili, M., Armanfard, N., Hatzinakos, D. and venetsanopoulos, A.N.V., "Feature Selection from Multisession Electrocardiogram Signals for Identity verification", IEEE 28th Canadian Conference in Electrical and Computer Engineering, (CCECE'2015), Halifax, NS, pp. 603-608, 05-2015.

D12 Haghighi, S., Louis, W., Hatzinakos D., and ElBeheiri, H., "An Adaptie Multilevel Wavelet Denoising method for 40-Hz ASSR", IEEE 41st International Conference on acoustics, speech and Signal Processing, (ICASSP'2016), Sanghai, China, pp 1-5, 03-2015.

D13 Haghighi, S., Hatzinakos, D., and ElBeheiri, H., "The effect of Propofol induced anesthesia on human 40-Hz auditory steady state response", IEEE 28th Canadian Conference on electrical and Computer Engineering (CCECE 2015)- Halifax, Ns., Canada, pp. 812-817, 05-2015.

D14 W. Louis, D. Hatzinakos and A. N. Venetsanopoulos, "One Dimensional Multi-Resolution Local Binary Patterns Features (1DMRLBP) for Regular Electrocardiogram (ECG) Waveform Detection", DSP-2014, Hong-Kong, August 20-24, 2014 submitted April 2014.

D15 P. S. Raj, and D. Hatzinakos, D., "Feasibility of Single-Arm Single-Lead ECG Biometrics') to EUSIPCO 2014 (22nd European Signal Processing Conference 2014", EUSIPCO-2014, Lisbon, Portugal, September 1-5, 2014, submitted March 2014.

D16 Haghighi, S.J., and Hatzinakos,"Monitoring Sleep with 40 Hz ASSR", EUSIPCO-2014, Lisbon, Portugal, September 1-5, 2014, submitted March 2014.

D17 P. Spachos, D. Toumpakaris, and D. Hatzinakos, "Angle-based Dynamic Routing Scheme for Source Location Privacy in Wireless Sensor Networks", IEEE Vehicular Technology Conference (VTC'2014), Vancouver, Canada, Sept. 14-17, 2014.

D18 P. Spachos, P. Chatzimisios, and D. Hatzinakos, "Evaluating the Impact of Next Node Selection Criteria on Quality of Service Dynamic Routing", IEEE International Conference on Communications (ICC'2014), Sydney, Australia, June 14, 2014.

D19 S. Pouryayevali, S. Wahabi, S. Hari, and D. Hatzinakos, "On Establishing Evaluation Standards for ECG Biometrics", Proceedings ICASSP-2014, Florence, Italy, May 5-9, 2014, to appear.

D20 Y. Liu, and D. Hatzinakos, "Human Acoustic Fingerprints: A Novel Biometric Modality for Mobile Security", Proceedings ICASSP-2014, Florence, Italy, May 5-9, 2014, to appear.

D21 Y. Liu, and D. Hatzinakos,"Robust Identity Verification Based on Human Acoustic Signature with BioHashing", Proceedings CCECE-2014, Toronto, Ontario, May 4-7, 2014, to appear.

D22 J. Gao, S.J Haghighi, and D. Hatzinakos, "Reference Empirical Mode Decomposition", Proceedings CCECE-2014, Toronto, Ontario, May 4-7, 2014, to appear

D23 G. Goel and D. Hatzinakos, D. , "Ensemble Empirical Mode Decomposition for Time Series Prediction in Wireless sensor networks", International Conference on Computing , Networking and Communications 2014,Honolulu, Hawaii, U.S.A, , 02-2014.

D24 P. Spachos, L. Song and D. Hatzinakos, "Wireless Multihop Networking for a Scalable Indoor Temperature Monitoring System", IEEE Consumer Communications and Networking Conference (CCNC'2014), Las Vegas , Nevada, pp. 1-6, 01-2014.

D25 P. Spachos, L. Song. and D. Hatzinakos, "Gas Leak Detection and Localization System Through Wireless Sensor Networks", IEEE Consumer Communications and Networking Conference, (CCNC'2014),, Las Vegas Nevada, , 01-2014.

D26 Y. Liu and D. Hatzinakos," Biometric Identification Based on Transient Evoked Otoacoustic Emission ", International Symposium on Signal Processing and Information Technology (ISSPIT-2013), Athens, Greece, pp. 267-271, 12-2013.

D27 P. Spachos and D. Hatzinakos, "Data Relevance Dynamic Routing Protocol for Wireless Visual Sensor Networks", 18th International Conference on Digital Signal Processing (DSP'2013), Santorini, Greece, pp. 1-6, 07-2013.

D28 P. Spachos, P. Chatzimisios and D. Hatzinakos,"Cognitive Networking with Opportunistic Routing in Wireless Sensor Networks", IEEE International Conference on Communications (ICC'2013), Budapest, Hungary, pp. 2422-2437, 06-2013.

D29 Spachos, P. Song, L. and Hatzinakos, D., "Prototypes of opportunistic Wireless Sensor Networks Supporting Indoor Air Quality Monitoring", IEEE Consumer Communications and Networking Conference (CCNC), Las Vegas, NV, pp. 844-845, 2013.

D30 Spachos, P., Chatzimisios, P. and Hatzinakos D., "Energy Aware Opportunistic Routing in Wirelesss Sensor Networks", IEEE Global Communications Conference (GLOBECOM,2012), Anaheim, CA, pp. 405-408, 12-2012.

D31 Mohhamadian , M., Hatzinakos, D. and Spachos, P., "Computational Intellgence for User and Data Classification in Hospital Software Environment", 8-t h Artificial Intelligence Applications and Innovations Conference (AIAI'20 12), Thessaloniki , Greece, pp. 145- 154, 09-2012.

D32 Spachos, P., Song, L. and Hatzinakos, D. , "Opportunistic Multhop Wireless Communications with aca alibrated Channel Model", IEEE International Conference on Communications (ICC'20 12), Ottawa, Canada, pp. 5670-5674, 06-2012.

D33 Spachos, P., Song, L. and Hatzinakos, D., "Comparison of Traditional and Opportunistic Multihop Routing in Wireless Network ing Scalability", IEEE 26th Biennial Symposium on Communications (QBSC'20 12), Kingston , Canada, pp. 182- 185, 05-2012

D34 Zhao, C., Wysocki , T., Agrafioti , F., and Hatzinakos, D., "Securing Hand held Devices and Fingerprint Readers with ECG Biometrics", IEEE International Conference on Biometrics: Theory, Applications and Systems, Washington , DC, pp. 150- 155,09-2012

D35 Xia, W., and Hatzinakos, D., "An Efficient Projected Subgradient Algorithm for Blind Image Deconvolution Using an Ll -TV Cost Function ", IEEE Inernational Conference on Image Processing, Orlando, FL., pp. 3045-3048, I0-2012.

D36 Spachos, P., Chatzimisios, P. and Hatzinakos, D., "Cognitive Networking with Opportunistic Routing in Wireless Sensor Networks", IEEE International Conference on Communications (ICC'20 13), Budapest, Hungary,, 06-2013

D37 Spachos, P., Chatzimisios, P. and Hatzinakos, D., "Energy Efficient Cognitive Unicast Routing for Wireless Sensor Networks", IEEE Vehicular Technology Conference (VTC'20 13), Dresden , Germany, , 06-2013

D38 Spachos, P. and Hatzinakos, D., "Data Relevance Dynamic Routng Protocol for Visual wireless Sensor Networks", 18th International Conference on Digital Signal Processing (DSP'20 !3). Santorini , Greece, 07-2013

D39 Hari , S., Agrafioti , F. and Hatzinakos, D., "Design of a Hamming Distance Classifier for ECG Biometrics", IEEE International Conference on Acoustics, Speech and Signal Processing (ICASP'20 !3), Vancouver, BC,, 05-2013.

D40 Spachos, P., Song, L., and Hatzinakos, D., "Opportunistic Multihop Wireless Communications with Calibrated Channel Model", IEEE Intern. Conference on Communications (ICC'2012) , March 4, 2012

D41 Xia, W., and Hatzinakos, D. , "'A Novel TV-L1 Blind Deconvolution Algorithm for Deblurring Images In the Presence of Impulsive Noise", IEEE Internationaleonference on Image Processing (ICIP'2012), , Orlando, Florida, July 2012

D42 Mohammadian, M., and Hatzinakos, D., "Improving Data Security and Privacy based on a FuzzyClassifier", IPSI Smart Data International Symposium, Toronto, May 14-16, 2012

D43 Mohammadian, M., and Hatzinakos, D., "Security Risks Assessment based on Intelligent Systems and Attack Graphs", IPSI Smart Data International Symposium, Toronto, May 14-16, 2012

D44 Tahir, A. and Hatzinakos, D., "Determinants in Human Gait Recognition", IEEE Canadian Conference on Electrical and Computer Engineeering, CCECE'2012 , Montreal , April 29,2012.

D45 Agrafioti F., Hatzinakos, D., and Bui, F., "Cardiac Biometric Security in Welfare Monitoring", International Conference on Acoustics, Speech and Signal Processing, ICASSP'2012, Kyoto, Japan, March 25-30, 2012.

D46 Gao, J., Agrafioti, F. , Wang, S. and Hatzinakos, D., "Transient Oto-acoustic Emissions for Biometric Recognition (Received Best paper award among 800 accepted papers)", ICASSP'2012, Kyoto, Japan, March 25-30, 2012

D47 Gao, J., and Hatzinakos, D., "Effect of Initial Phase in two tone Separation using Empirical Mode Decomposition", ICASSP'2012, , Kyoto, Japan, March 25-30, 2012

D48 Matta, R. , Lau, J.K. H., Agrafioti, F., and Hatzinakos, D. , "Real time continuous Identification system using ECG signals", IEEE Canadian Conference on Electrical and Computer Engineeering, CCECE'2011, Niagara Falls, May 2011.

D49 Agrafioti, F., and Hatzinakos, D., "An enhanced EMD algorithm for ECG signal processing", IEEE Intern. Conference on Digital Signal Processing, DSP'2011, Corfu, Greece, July 6-8, 2011.

D50 Agrafioti, F., Gao, J., Mohammadzade, H. and Hatzinakos, D., "A 2D Bivariate EMD Algorithm for Image Fusion", IEEE Intern. Conference on Digital Signal Processing, DSP'2011 , Corfu, Greece, July 6-8, 2011

D51 Gao, J., Agrafioti, F., Mohammadzade h., and Hatzinakos, D., "ECG for Blindly Identity Verification in Distributed Systems", ICASSP'2011, pp. 1916-1919, Praque, Chech Republic, May 2011.

D52 Mohammadzade, H., Agrafioti, F., and Hatzinakos, D., "BEMD for Expression Trasformation in Face Recognition", ICASSP'2011, pp. 1501-1504, Prague, Chech Republic, May 2011.

D53 Mohammadzade, H., and Hatzinakos, D., "Correspondence Normal Difference: An Aligned Representation of 3D Faces to apply Discriminant Analysis Methods", IEEE Intern. Conference on Digital Signal Processing, DSP'2011, Corfu, Greece, July 6-8, 2011

D54 Spachos, P., Gao, J., and Hatzinakos, D., "Feasibility Study of Photoplethysographic Signals for Biometric Identification", IEEE Intern. Conference on Digital Signal Processing, DSP'2011, Corfu, Greece, July 6-8, 2011

D55 Spachos, P., Song, L., and Hatzinakos, D., "Performance Comparison of Opportunistic Routing Schemes in Wireless Sensor Networks", 9th Annual Communication Network and Services Research Conference (CSNR'2011), Corfu, Greece, July 4-6, 2011

D56 Spachos, P., Song, L., Bui, F., and Hatzinakos, D., "Improving Source Location Privacy through Opportunistic Routing in Wireless Sensor networks", IEEE Symposium on Computers and Communications, , Kingston, Canada, June 2011.

D57 Spachos, P., Bui, F.M., Song, L., Lostanlen, Y., and Hatzinakos, D. "Performance Evaluation of Wireless Multihop Communications for an Indoor Environment". IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) 2011, Toronto, Canada, Sept. 11 - 14, 2011

D58 Spachos, P., Song, L., Bui, F.M. and Hatzinakos, D. Improving Source-Location Privacy through Opportunistic Routing in Wireless Sensor Networks. IEEE Symposium on Computers and Communications ISCC 2011, Kerkyra (Corfu), Greece, June 28 - July 1, 2011.

D59 Talwai, A., Bui, F.M., Khisti, A., and Hatzinakos, D., A Comparative Analysis of Biometric Secret-Key Binding Schemes Based on QIM and Wyner-Ziv Coding. IEEE Int. Conf. on Acoustics, Speech and Signal Processing ICASSP 2011, Prague, May 22-27, 2011.

D60 P. Spachos, J. Gao, and D. Hatzinakos, "Feasibility Study of Photoplethysmographic Signals for Biometric Identification", IEEE 17th International Conference on Digital Signal Processing (DSP 2011), Corfu, Greece, July 6-8,

D61 H. Mohamadzade, F. Agrafioti, J. Gao, and D. Hatzinakos,"BEMD for Expression Transformation in Face Recognition", IEEE 36th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2011), Prague (accepted), , 2011

D62 J. Gao F. Agrafioti, H. Mohammadzade, and D. Hatzinakos,"ECG for Blind verification in Distributed Systems", IEEE 36th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2011), Prague (accepted), 2011

D63 Hoda Mohamandzade, and Dimitrios Hatzinakos, "Unsupervised Recognition of Expression Variant Faces Using a PCA-Based Expression Transformation", IEEE Fourth International Conference on Biometrics: Theory, Applications and Systems (BTAS 2010), Sept. 27-29, 2010, Washington DC, USA

D64 Z. S. Fatemian, F. Agrafioti, D. Hatzinakos, HeartID: Cardiac Biometric Recognition, IEEE Fourth International Conference on Biometrics: Theory, Applications and Systems (BTAS 2010), Sept. 27-29, 2010, Washington DC, USA

D65 Petros Spachos and D. Hatzinakos, "Opportunistic Routing for Enhanced Source-Location Privacy in Wireless Sensor Networks", 25th Queen's Biennial Symposium on Communications , Kingston , Ontario, May 12-15, 2010

D66 Y. Wang, and D. Hatzinakos, "cancellable face recognition using random multiplicative transform", submitted to the 20th International Conference on Pattern Recognition (ICPR), Instabul, Turkey, August 23-26, 2010.

D67 Zhengyao Bai and Dimitrios Hatzinakos, "LBP-Based Biometric Hashging Scheme for Human Authentication", Intern. Conf. on Control, Automation,Robotics and Vision (ICARCV'2010), Singapoore, 2010

D68 Kannan Karthik and Dimitrios Hatzinakos, "Secure Group Authentication Using a non Perfect Secret Sharing Scheme based on Controlled Mixing, accepted INDICON '09 Gujarat , India,dec. 18-20,2009.

D69 F. Agrafioti, F. M. Bui and D. Hatzinakos, Medical Biometrics: The Perils of Ignoring Time Dependency, IEEE Third International Conference on Biometrics: Theory, Applications and Systems, Sept. 28-30, Washington DC, 2009

D70 F. Agrafioti and D. Hatzinakos, Signal Validation for Cardiac Biometrics, ICASSP2010, Dallas, Texas , March 15, 2010

D71 Tahir Amin and D. Hatzinakos, ""Wavelet Analysis of Cyclic Human Gait for Recognition", DSP-2009, Santorini, Greece, July 5, 2009

D72 Yongjin Wang and Dimitrios Hatzinakos, FACE RECOGNITION WITH ENHANCED PRIVACY PROTECTION' , ICASSP 2009, Tai Pei, Taiwan, April 2009

D73 Zahra Fatemian and D. Hatzinakos, "A New ECG Feature Extractor for Biometric Recognition" DSP-2009, Santorini, Greece, July 5, 2009

D74 Foteini Agrafioti, F. Bui and D. Hatzinakos, "On Supporting Anonymity in a BAN Biometric Framework", DSP-2009, Santorini, Greece, July 5, 2009

D75 Yongjin Wang and D. Hatzinakos, "Random Translational Transformation for Changeable Face Verification", DSP-2009, Santorini, Greece, July 5, 2009

D76 Francis Bui, Karl Martin, Haiping Lu, Kostas Plataniotis, Dimitrios Hatzinakos, 'Quantization Index Modulation (QIM) for Biometric Encryption Applications Based on Facial Images' ,ICIP'09, Feb. 2009

D77 Haiping Lu, Karl Martin, Francis Bui, K.N. Plataniotis, Dimitrios Hatzinakos, FACE RECOGNITION WITH BIOMETRIC ENCRYPTION FOR PRIVACY-ENHANCING SELF-EXCLUSION, DSP-2009

D78 Yongjin Wang and D. Hatzinakos," Face Verification with Changeable Templates", CCECE'09, St. Johns, NF, May 2009.

D79 Francis Minhthang Bui and Dimitrios Hatzinakos, Secure Methods for Fuzzy Key Binding, in Biometric Authentication Applications, Invited paper, Asilomar 2008, Monderey, California.

D80 Foteini Agrafioti, Dimitrios Hatzinakos, ECG based recognition using second order statistics, *Sixth Annual Conference on Communication Networks and Services Research (CNSR)*, May 5-8, 2008, Halifax, Canada.

D81 Foteini Agrafioti, Dimitrios Hatzinakos, "Fusion of ECG sources for human identification", *Third International Symposium on Communications, Control and Signal Processing (IS-CCSP)*, March 12-14, 2008, Malta.

D82 Foteini Agrafioti, Dimitrios Hatzinakos, "ECG for Biometric Applications", The UW and IEEE Kitchener- Waterloo Section Joint Workshop on Multimedia Mining and Knowledge Discovery (MMKD), Oct. 17-18, 2007, Canada

D83 Liang Song, D. Hatzinakos and Wang Xiaoyu, " Wireless Mesh Infrastructure for Ubiquitous Voice and Video", *5th IEEE Consumer Communications and Networking Conference, CCNC'2008*, pp. 1267-1268, Jan. 10-12, 2008.

D84 Liang Song and D. Hatzinakos, " Prototypes of Opportunistic Wireless Mesh Networks Supporting Real-Time Services", *5th IEEE Consumer Communications and Networking Conference*, CCNC'2008, pp. 386-387, Jan. 10-12, 2008.

D85 Xin C. Guo and D. Hatzinakos, "Content based Image Hashing via the wavelet and the Radon Transform", Pacific-Rim Conference on Multimedia, PCM'2007, Hong Kong, Dec. 11-14, 2007.

D86 T. Amin and D. Hatzinakos, "A correlation based approach to human gait recognition", *Biometrics Symposium - BSYM-2007*, p. 1-6, Sept. 11-13, 2007.

D87 Bui and D. Hatzinakos, "An Interpolation and Resampling Framework for Efficient Reduction of Peak-to-Average Power Ratio in OFDM Systems", p. 1-5, *PIMRC'07*, Athens, Greece, Sept. 3-7 2007F.

D88 F. M. Bui and D. Hatzinakos, " Resource allocation strategies for secure and efficient communications in biometrics-based body sensor networks", *Biometrics Symposium, BSYM-2007*,p. 1-6, Sept. 11-13, 2007.

D89 K. Karthik and Prof. D. Hatzinakos, A novel anti-collusion coding scheme tailored to track linear Collusions, 3rd Int. Synposium on Information Assurance and Security (IAS'2007), pp. 484-489, Manchester, UK, August 29-31, 2007.

D90 K. Karthik and D. Hatzinakos,"A Unified Approach to costruct Secret Sharing and Traitor Tracing Schemes", International Conference on Security and Management, Feb. 2007.

D91 L. Song and D. Hatzinakos, "Embedded Wireless Interconnect for Sensor Networks: Concept and Example", to appear in IEEE 4th Consumer Communications and Networking Conference (CCNC), 2007.

D92 K. Plataniotis, D. Hatzinakos and **J. Lee**, 'ECG Biometric Recognition without Fiducial Detection,', *Biometrics Symposium/Biometrics Consortium Conference, BCC'06*, Baltimore, Sept. 19-21, 2006,(www.biometrics.org/bc2006/presentations/ Poster_Session /Plataniotis_P03.pdf).

D93 Yongjin Wang, K. Plataniotis, and D. Hatzinakos. 'Integrating analytic and appearance attributes for human identification from ECG signals,', *Biometrics Symposium/Biometrics Consortium Conference, BCC'06*, Baltimore, Sept. 19-21, 2006, (http://www.biometrics.org /bc2006/presentations/Poster_Session/Plataniotis_P02.pdf).

D94 R. Pacheco and D. Hatzinakos, 'Analysis of Phase-Modulated OFDM (OFDM-PM) in AWGN Channels', *ICASSP' 06*, Toulouse, France, Vol. 4, pp. 337-340, May 2006.

D95 F. Bui, and D. Hatzinakos, 'Identification and Tracking of Rapidly Time-Varying Mobile Channels for Improved Equalization - A Basis Expansion Model Approach', CSNDSP' 06, Patras, Greece, pp. 190-194, July 2006.

D96 A. Giannoula, D. Hatzinakos, and R. Cobbold,'Nonlinear Effects on Confocal Beam Radiation Force Imaging', *ICASSP' 06*, Toulouse, Franse, Vol. 2, pp. 1128-1131, May 2006

D97 O. Ureten, Nur Serinken, **R. Pacheco**, and D. Hatzinakos, 'Bayesian Frame Synchronization for 802.11a WLANs:Experimental Results ', *Proc. Canadian Conf. on Electrical and Comp. Eng, CCECE'05*, pp. 884-887, May 2005.

D98 A. Giannoula and D. Hatzinakos, 'Recursive deconvolution of multisensor imagery using finite mixture distributions,'*ICASSP' 05*, Philadelpia, USA, Vol. 2, pp. 637-640, March 19-23, 2005.

D99 N.V. Boulgouris, K.N. Plataniotis, D. Hatzinakos, 'An Angular Trasform of Gait Sequences for Gait Assisted Recognition', *ICIP'04*, Singapore, Vol. 2, pp. 857-860, Oct. 24-27, 2004.

D100 L. Song and D. Hatzinakos, 'Dense Wireless Sensor Networks with Mobile Sinks ,'*ICASSP' 05*, Philadelpia, USA, Vol. 3, pp.677-680, March 19-23, 2005

D101 F. M. Bui and D. Hatzinakos, 'Adaptive Modulation using Variable-Size Burst for Spectrally Efficient Interference Suppression in Wireless Communications,'GLOBECOM'04, Dallas, Texas, Vol. 2, pp. 898-902, Nov. 2004.

D102 F.M. Bui and D. Hatzinakos, 'A Variable-Size Burst Based on Information-Theoretic Criterion for Spatio-Temporal Interference Supression in DS-CDMA Systems', *IEEE SPAWC' 04*, Lisboa, Portugal, pp. 179-183, July 11-14, 2004.

D103 R. Pacheco and D. Hatzinakos, 'Analysis of a Frame Synchronization Method Using Periodic Preable for OFDM based WLANS,'*PIMRC 2004*, Barcelona, Spain, Vol. 3, pp. 1911-1915September 5-8 2004.

D104 R. Lukac, K. N. Plataniotis, D. Hatzinakos, and B. Smolka, 'Improved CFA Interpolation Approach,'*IS&T's Second European Conference on Color in Graphics, Imaging and Vision (CGIV 2004)*, Aachen, Germany, April 5-8, 2004

D105 F. Bui and D. Hatzinakos, 'Time-Varying Channel Modelling and Variable-Size Burst for Spatio-Temporal Interference Suppression in DS-CDMA Systems', *Proc. ICASSP'2004*, Vol. 4., pp 981-984, Montreal, May 2004.

D106 A. Giannoula, N. Boulgouris and D. Hatzinakos, 'Fused watermark detection on noisy interpolated images,'*Proc. Canadian Conf. on Electrical and Comp. Eng, CCECE'04*, Vol. 2, pp. 1171-1174, Niagara Falls, 2004.

D107 N. Boulgouris, K. Plataniotis, and D. Hatzinakos, 'Gait Analysis and recognition using angular transforms,'*Proc. Canadian Conf. on Electrical and Comp. Eng, CCECE'04*, Vol. 3, pp. 1317-1320, Niagara Falls, 2004.

D108 R. Pacheco and D. Hatzinakos, 'BER Analysis of Self-Heterodyne OFDM Transmission Scheme,'*Proc. Canadian Conf. on Electrical and Comp. Eng, CCECE'04*, Niagara Falls, 2004.

D109 J. Han and D. Hatzinakos, 'Joint Blind Deconvolution, Fusion and CLassification of Multiframe Imagery,'*Proc. Canadian Conf. on Electrical and Comp. Eng, CCECE'04*, Niagara Falls, 2004.

D110 A. Giannoula and D. Hatzinakos, 'Efficient Single Stream Video Transmission Using Data Hiding,', *Proc. ISCAS'04*

D111 K. Karthik, D. Kundur and D. Hatzinakos, 'Joint Fingerprinting and Decryption for Multimedia Content Tracing in Wireless Networks,'*Sensors, Command, Control, Communications, and Intelligence (C3I) Technologies for Homeland Security and Homeland Defense*, Edward M. Carapezza, ed., *Proc. SPIE (vol. 5403)*, Orlando, Florida, April 2004.

D112 L. Song, R. Adve, and D. Hatzinakos, 'Matrix Pencil for POsitioning in Wireless Ad-Hoc SEnsor Networks,', *Proc. EWSN'2004*, Germany.

D113 A. Giannoula and D. Hatzinakos, 'Compressive Data Hiding for Video', to appear ICIP'2003, Barcelona, Spain, September 2003.

D114 F. Harmantzis and D. Hatzinakos, 'Effective Bandwidths and Tail Probabilities for Gaussian and Stable Self-Similar Traffic', *ICC'2003*, Alaska, May 2003

D115 R. Pacheco and D. Hatzinakos, 'Blind (training like) Decoder Assisted Beamforming for DS-CDMA Systems', ICASSP'2003, Hong Kong, April 2003.

D116 R. Pacheco and D. Hatzinakos, 'Semi-blind interference suppression for frequency selective ds-cdma systems employing space-time block codes', *2002 14th International Conference on Digital Signal Processing* , Volume: 1, pp., 263-266, Santorini, Greece, July 2002

D117 R. Pacheco and D. Hatzinakos, 'Blind Interference Suppression for DS-CDMA Systems using Semi-Blind Techniques', *XXXVIIth General Assembly of the International Union of Radio Science*, 2002 , (Invited Submission)

D118 P. Campisi, D. Kundur, D. Hatzinakos and A. Neri, Hiding-Based Compression for Improved Color Image Coding, Security and Watermarking of Multimedia Contents IV, E. J. Delp and P. W. Wong, eds., Proc. SPIE (vol. 4675), 10 pages, San Jose, California, January 2002.

D119 K. Su, D. Kundur and D. Hatzinakos, A Novel Approach to Collusion-Resistant Video Watermarking, Security and Watermarking of Multimedia Contents IV, E. J. Delp and P. W. Wong, eds., Proc. SPIE (vol. 4675), 12 pages, San Jose, California, January 2002.

D120 K. Su, D. , Kundur, and D. Hatzinakos, "A Content-Dependent Spatially Localized Video Watermark for Resistance to Collusion and Interpolation Attacks," *Proc. IEEE Int. Conf. On Image Processing*, Thessaloniki, Greece, October 2001.

D121 R. Pacheco and D. Hatzinakos, 'Spatio-Temporal Equalization and Multiuser Detection for DS-CDMA Systems A Semi-Bllind Approach', *Proc. IEEE Canadian Conference on Electrical and Computer Eng.-CCECE'01* , Vol. 2, pp.1345-1350, Toronto, May 13-16, 2001

D122 F. Harmantzis, D. Hatzinakos and I Katzela, 'Shaping and Policing of Fractal Alpha-Stable Brodband Traffic', *Proc. IEEE Canadian Conference on Electrical and Computer Eng.- CCECE'01*, Vol. 1, pp.697-702, Toronto, May 13-16, 2001

D123 R. Pacheco and D. Hatzinakos, 'Semi-blind Spatio-Temporal Equalization and Multiuser Detection for Ds-CDMA Systems', *SPAWC-2001*, pp. 126-129, Taoyuan, Taiwan, March 20-23, 2001.

D124 F. Harmantzis, D. Hatzinakos and I. Katzela, 'Tail Probabilities for the Multiplexing of Fractional α-stable Broadband Traffic', *IEEE ICC-2001*.

D125 J. Zaib Ali , and D. Hatzinakos, 'Semiblind Multiuser Detection based on Subspace Tracking', *Proc. Symposium 2000: Adaptive Systems for Signal Processing, Communications and Control*, Lake Louise, Alberta, October 1-4, 2000.

D126 K.Au, and D. Hatzinakos, 'A Convex Semi-blind Cost Function for Equalization in Short Burst Communications', *Proceedings IEEE Workshop on Statistical Signal and Array Processing*, SSAP00, Pennsylvania, Aug. 14-18, 2000.

D127 K. N.Plataniotis and D. Hatzinakos, 'Gaussian Mixtures and their Applications in Signal Processing', *Proceedings of Fourier Euroworkshop on Advanced Signal Processing Theory and Implementation for Radar, Sonar and Medical Imaging Systems*, Corfou, Greece, April 10-13, 2000 .

D128 A. Karasaridis, and D. Hatzinakos, 'Resource Allocation Issues for Long-Tailed (LED) Internet (WAN) Traffic', *IEEE GLOBECOM99*, Rio, Brazil, December 5-9, 1999.

D129 D. Kundur and D. Hatzinakos, 'Attack Characterization for Effective Watermarking', *ICIP'99*, Kobe, Japan, October 23-28, 1999.

D130 Yi Li, D. Hatzinakos and A. N. Venetsanopoulos, 'A Multi-Frame, Region-Feature Based Technique for Motion Segmentation', *ICIP'99*, Kobe, Japan, October 23-28, 1999.

D131 R. Pacheco and D. Hatzinakos, 'Semi-blind Suppression of MAI in multipath CDMA Channels', *33rd Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, California, Oct. 24-27, 1999.

D132 A. Karasaridis and D. Hatzinakos, 'Effective Bandwidth Bounds for alpha-Stable Self-Similar Internet Traffic Models', *IEEE Workshop on Higher-Order Statistics - H.O.S.'99*, Ceasarea, Israel, June 13-17, 1999.

D133 A. M. Kuzminskiy and D. Hatzinakos, 'Semi-blind symbol synchronization for antenna array signal processing in short burst multiuser SDMA systems,'*Proc. 2nd IEEE Workshop on Signal Processing Advances for Wireless Communications - SPAWC'99*, Annapolis, MD, May 9-12, 1999.

D134 A. Karasaridis and D, Hatzinakos, 'A non-Gaussian Self-Similar Process for Broadband Heavy Traffic Modeling, ', *Proc. GLOBECOM'98*, Sidney, Australia, October 1998

D135 A. M. Kuzminskiy and D. Hatzinakos, 'Multistage Semi-blind Spatio-Temporal Processing for Short Burst Multiuser SDMA Systems,'*Proc. 32nd Asilomar Conference*, pp. 1887-1890, Pacific Grove, California, Nov. 1-4, 1998.

D136 M. Maalej, S. J. Pantazopoulou,D. Karasaridis, D. Hatzinakos, 'Intelligent monitoring of Instrumented Infrastructure Facilities', *Proc. of the 30th International SAMPE Technical Conference: Materials*, pp. 278-292, The Star at Center Stage, San Antonio, Texas, October 21-24, 1998.

D137 P. Campisi, A. Neri and D. Hatzinakos, 'Perceptually Lossless, Model Based, Texture Compression Technique', *Proc. ICIP'98*, Chicago, Illinois, Oct. 4-8, 1998.

D138 D. Kundur and D. Hatzinakos, 'Towards a Telltale Watermarking Technique for Tamper-Proofing', *Proc. ICIP'98*, Vol. 2, pp. 409-413, Chicago, Illinois, Oct. 4-8, 1998.

D139 A. Kuzminskiy and D. Hatzinakos, 'Semi-blind training like estimation of spatio-temporal filter coefficients for finite alphabet signals, ', *Proc. IEEE SSAP'98*, pp. 376-380, Portland, Oregon, Sept. 14-16, 1998.

D140 A. Karasaridis and D, Hatzinakos, 'Broadband Heavy-Traffic Modeling using Stable Self-Similar Processes.'*Canadian Conference on Broadband Research, CCBR'98*, pp. 157-168, Ottawa, Ontario, Sept. 1998.

D141 A. Kuzminskiy and D. Hatzinakos, 'A Training Like Method for semi-blind Separation and Estimation of Binary Signals', *Proceedings Int. Conf. on Telecommunications-ICT'98*, June 22-25, 1998, Chalkidiki, Greece.

D142 J. Yan, P. Campisi and D. Hatzinakos, 'Film Grain Noise Removal and Generation for Colour Images', *Proceedings ICASSP'98*, Seattle, WA, May 12-15,1998.

D143 D. Kundur and D. Hatzinakos, 'Digital Watermarking using Multiresolution Wavelet Decomposition', *Proceedings ICASSP'98*, p. 2969 Seattle, WA, May 12-15,1998.

D144 D. Kundur and D. Hatzinakos, 'A Robust Digital Image Watermarking Scheme using the Wavelet-Based Fusion', *Proceedings ICIP'1997*, Vol. 1, pp. 544-547, Santa Barbara, Oct. 26-30, 1997.

D145 D. Kundur, D. Hatzinakos and H. Leung, 'A Novel Approach to Robust Blind Classification of Remote Sensing Imagery', *Proc. ICIP'1997*, Vol.3, pp. 130-133, Santa Barbara, Oct. 26-30, 1997.

D146 A. Karasaridis and D. Hatzinakos, 'Webcasting network traffic measurements and modeling with Alpha-Stable Self-Similar Processes', *Proceedings NSIP'97*, Mckinac Island, Michigan, Sept. 8-10.

D147 A. Karasaridis and D. Hatzinakos, 'Time-Frequency Analysis of Sensor Data for Detection of Structural Damage in Instrumented Structures', *Proceedings DSP'97*, pp. 817-820, Santorini, Greece, July 1-4, 1997.

D148 A. Karasaridis and D. Hatzinakos, 'On the modeling and fast simulation of rare events using α-stable self-similar processes', *Proceedings 1997 IEEE Signal Processing Workshop on H.O.S.*, pp. 268-272, Banff, Alberta, Canada, July 21-23, 1997.

D149 Jacky Chun Kit Yan and D. Hatzinakos, 'Signal Dependent Film Grain Noise Removal and Generation based on H.O.S', *Proceedings 1997 IEEE Signal Processing Workshop on H.O.S.*, pp. 77-81, Banff, Alberta, Canada, July 21-23, 1997.

D150 Wing Ip Tam and D. Hatzinakos, 'An Adaptive Gaussian Sum Algorithm for Radar Tracking', *Proceedings ICC'97*, Montreal, Quebec, Canada, May 1997.

D151 Wing Ip Tam and D. Hatzinakos, 'An Efficient Radar Tracking Algorithm using Multidimensional Gauss-Hermite Quadratures', *Proceedings ICASSP'97*, Munich, Germany, April 1997.

D152 Erwin Pang and D. Hatzinakos, 'An Efficient Implementation of Affine Transformation using One-dimensional FFTs', *Proceedings ICASSP'97*, p. 2885, Munich, Germany, April 1997.

D153 D. Kundur and D. Hatzinakos, 'On the Global Asymptotic Stability of the NAS-RIF Algorithm for Blind Image Restoration', *Proc. Intern. Conf. on Image Processing, ICIP'96*, Vol III, pp. 73-76, Lausanne, Switzerland, Sept. 1996.

D154 D. Kundur and D. Hatzinakos, 'Blind Image Restoration via Recursive Filtering Using Deterministic Constraints', *Proc. ICASSP' 96*, Atlanta, GA, May 7-10, 1996.

D155 J. Ilow, D. Hatzinakos and A.N. Venetsanopoulos, 'Detection for Binary Transmission based on the Empirical Characteristic Function', *Proc. ICASSP' 96*, Atlanta, GA, May 7-10, 1996.

D156 J. Ilow and D. Hatzinakos, 'Impulsive Noise Modeling with Stable Distributions in Fading Environments', *Proc. of the 8th IEEE Signal Processing Workshop on SSAP*, Corfu , Greece, June 24-26, 1996.

D157 D. Kundur and D. Hatzinakos, 'A Novel Recursive Filtering Method for Blind Image Restoration', to appear *Proc. of the IASTED International Conference on Signal and Image Processing (SIP'95)*, Las Vegas, Nevada, Nov. 1995.

D158 J. Ilow, D. Hatzinakos, and A. N. Venetsanopoulos, 'Performance Bounds Evaluation of FH SS Radio Networks with Interference Modeled as a Mixture of Gaussian and Alpha-Stable Noise', *Proc. PIMRC'95*, pp. 153-157, Toronto, Sept. 27-29, 1995.

D159 J. Ilow, D. Hatzinakos, and A. N. Venetsanopoulos, 'Performance of FH SS Radio Networks with Interference Modeled as a Mixture of Gaussian and Alpha-Stable Noise', *Proc. of the IEEE ICASSP'95*, Detroit, Michigan, May 8-12, 1995.

D160 S. Prakriya and D. Hatzinakos, 'Blind Identification of Nonlinear Models Using Higher-Order Spectral Analysis', *Proc. of the IEEE ICASSP'95*, Detroit, Michigan, May 8-12, 1995.

D161 S. Ambike and D. Hatzinakos, 'A New Filter for Highly Impulsive Alpha-Stable Noise', *Proc. IEEE Workshop on Nonlinear Signal and Image Processing (NSIP'95)*, Neos Marmaras, Greece, June 20-22, 1995.

D162 S. Prakriya and D. Hatzinakos, 'Blind Identification of Nonlinear Channels with Higher-Order Cyclic Spectral Analysis ', *Proc. IEEE Signal Processing/ Athos Workshop on H.O.S.*, pp. 366- 370, Begur, Girona, Spain, June 12-14, 1995.

D163 G. C. W. Leung and D. Hatzinakos., 'Efficient Implementations of H.O.S. Estimators ', *Proc. IEEE Signal Processing/ Athos Workshop on H.O.S.*, pp. 266-270, Begur, Girona, Spain, June 12-14, 1995.

D164 C. Bussiere and D. Hatzinakos, 'A Novel Motion Estimation Technique Using Genetic Algorithm Search', *Proc. of the 7-th SSAP Workshop*, pp. 329-332, Quebec, Canada, June 26-29, 1994.

D165 J. Ilow, D. Hatzinakos and A. N. Venetsanopoulos, 'Detection in Alpha-Stable Noise Environments Based on Nonlinear Prediction', *Proc. of the 7-th SSAP Workshop*, pp. 59-62, Quebec, Canada, June 26-29, 1994.

D166 S. Ambike and D. Hatzinakos, 'Two Receiver Structures and Performance Analysis for Binary Signaling in a Mixture of Gaussian and Alpha-Stable Impulsive Noises', *Proc. of the IEEE ICASSP'94*, Vol. 4, pp. 173-176, Adelaide, Australia, April 1994.

D167 C. Bussiere and D. Hatzinakos, 'Intensity Scale Invariant Motion Estimation with Rotation and Spatial Scaling Information', *Proc. of the IEEE ICASSP'94*, Vol. 5, pp. 233-236, Adelaide, Australia, April 1994.

D168 S. Prakriya and D. Hatzinakos, 'Identification of Parametric MA Linear Models with Cyclostationary Inputs', *Proc. of the IEEE ICASSP'94*, Vol. 4, pp. 417-419, Adelaide, Australia, April 1994.

D169 J. Ilow and D. Hatzinakos, 'Recursive Least Squares Algorithm for Blind Deconvolution of Channels with Cyclostationary Inputs', *Proc. IEEE MILCOM'93*, pp. 123-127, Boston, MA, Oct. 11-14, 1993.

D170 Y. Zhang, D. Hatzinakos and A. N. Venetsanopoulos, 'Identification of Multichannel and Multidimensional Systems Using Cumulants: Application to Colour Images,'*Proc. International Conference on Image Processing*, Genoa, Italy, June 1993.

D171 D. Hatzinakos, 'Blind System Identification based on the Complex Cepstrum of the Cyclic Autocorrelation', *Proc. IEEE ISCAS'93*, pp. 726-729, Chicago, May 6-8, 1993.

D172 Y. Zhang, D. Hatzinakos and A. N. Venetsanopoulos, 'Bootstrapping Techniques in the Estimation of Higher Order Cumulants From Short Data Records', *Proc. IEEE ICASSP'93*, Vol. IV, pp. 200-203, Minneapolis, MN, April 27-30, 1993.

D173 S. Prakriya and D. Hatzinakos, 'Efficient Nonlinear Channel Identification Using Cyclostationary Analysis', *Proc. IEEE ICASSP'93*, Vol. IV, pp. 264-267, Minneapolis, MN, April 27-30, 1993.

D174 R. L. J. Martens, A. N. Venetsanopoulos and D. Hatzinakos, 'Coding of Image Textures using Wavelet Decomposition and Hierarchical Vector Quantization', *Proc. IEEE-SP Int. Symp. on Time-Freq. and Time-Scale Analysis*, pp. 101-104, Victoria, B.C., Oct. 1992.

D175 N. Tsouras and D. Hatzinakos, 'Effects of Finite Register Length in H.O.S Based Algorithms', *Proc. International Signal Processing Workshop on H.O.S.*, Chamrousse, France, July 10-12, 1991.

D176 D. Hatzinakos, 'Carrier Phase Recovery Issues in Polyspectra-based Equalizers', *Proc. of the IEEE ICASSP'91*, pp. 1537-1540, Toronto, Ontario, May 13-17, 1991.

D177 D. Hatzinakos and C. L. Nikias, 'Polycepstra Techniques for Blind Equalization of Multilevel PAM Schemes', *Proc. of the IEEE ICC/SUPERCOMM'90*, Vol. 3, pp. 1507-1511, Georgia World Congress Center, Atlanta, April 16-19, 1990.

D178 D. Hatzinakos and C. L. Nikias, 'Blind Equalization based on Second and Fourth Order Statistics', *Proc. of the IEEE ICC/SUPERCOMM' 90*, Vol. 3, pp. 1512-1516, Georgia World Congress Center, Atlanta, Georgia, April 16-19, 1990.

D179 D. Hatzinakos and C. L. Nikias, 'Blind Decision Feedback Equalization Structures based on Adaptive Cumulant Techniques', *Proc. of the IEEE ICC'89*, Vol. 3, pp. 41.5.1-41.5.5, Boston, MA, June 1989.

D180 D. Hatzinakos and C. L. Nikias, 'Adaptive Filtering based on Polycepstra', *Proc. of the IEEE ICASSP'89*, pp. 1175-1178, Glasgow, Scotland, May 1989. Also, *Proc. Second Biennial ASSP, Mini-conference*, pp. 62-65, Henderson House, Weston, MA., May 1989.

D181 D. Hatzinakos and C. L. Nikias, 'Cumulant Techniques for the Estimation and Cancellation of ISI', *Proc. IEEE Fourth ASSP Workshop on Spectrum Estimation and Modeling/ IEEE Signal Processing Society*, pp. 204-207, August 1988.

D182 D. Kundur and D. Hatzinakos, 'Mismatching Perceptual Models for Effective Watermarking in the Presence of Compression', *SPIE'99 Multimedia Systems and Applications II*, Vol. 3845, 1999

D183 D. Kundur and D. Hatzinakos, 'Semi blind image restoration based on Digital Watermarking,'*Proc. of 32nd Asilomar Conference*, pp. 933-937, Pacific Grove, California, Nov. 1-4, 1998.

D184 S. Prakriya, S. Pasupathy and D. Hatzinakos, 'Blind Identification of Nonlinear Models with Non-Gaussian Inputs', *Proc. of the SPIE'95*, Philadelphia, Sept. 1995.

D185 J. Ilow, D. Hatzinakos, and A. N. Venetsanopoulos, 'Detection of Narrowband Signals in Alpha-Stable Noise Environments', *Proc. IEEE MILCOM'94*, Fort Monmouth, NJ, Oct. 2-5, 1994.

D186 S. Prakriya and D. Hatzinakos, 'Identification of Symmetric / Asymmetric Quadratic Nonlinear Systems with Cyclostationary Inputs',*Proc. IEEE MILCOM'93*, pp. 653-657, Boston, MA, Oct. 1993.

D187 J. Ilow, D. Hatzinakos and A. N. Venetsanopoulos, 'Blind Deconvolution Based on Cumulant Fitting and Simulated Annealing Optimization ', *26th Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, CA, Oct. 26-28, 1992.

D188 J. Ilow, D. Hatzinakos and A. N. Venetsanopoulos, 'Simulated Annealing Optimization in Blind Equalization', *Proc. MILCOM'92*, pp. 216-220, San-Diego, California, October 11-14, 1992.

D189 H. Quatrelivre and D. Hatzinakos, 'Blind Channel Identification Based on Cyclostationarity', *Proc. Canadian Conference on Electrical and Computer Engineering*, pp. TA2.20.1-TA2.20.4., Toronto, Ontario, September 13-16, 1992.

D190 D. Hatzinakos, 'Structures for Polyspectra - Based Blind Equalizers', *Proc. MILCOM' 91*, McLean, Virginia, Nov. 4-7, 1991.

D191 D. Hatzinakos, 'Stop-and-Go Sign Algorithms for Blind Equalization', *Proc. SPIE' 91/* Society of Optical Engineering , San Diego, California, July 21-26, 1991.

E.   Papers Submitted to Referred Conference Proceedings

F.   Technical Reports

(a) S. Stergiopoulos, A. Freibert, J. Zhang and D. Hatzinakos, "Non-Invasive Monitoring of Vital Signs and Traumatic Brain Injuries", Defence RD Canada-Toronto, Technical Report TR2008-105, June 2008.

(b) D. Hatzinakos and D. Kundur, 'Blind Image Fusion for Surveillance', *Final Report*, Public Works and Government Services Canada -Contract No: W7714-6-9990/001/SV, July 1997.

(c) D. Kundur and D. Hatzinakos, 'Blind Deconvolution of Still Images', *Comm. Group Tech. Rep. no 94-1*, Dept. of Electr. & Comp. Eng, Univ. of Toronto, April 1994.

(d) S. Ambike, J. Ilow, and d. Hatzinakos, 'Detection for Binary Transmission in a Mixture of Gaussian Noise and Impulsive Noise Modeled as an Alpha-Stable Process', *Comm. Group Tech. Rep. no 93-3*, Dept. of Electr. & Comp. Eng, Univ. of Toronto, Oct. 1993.

(e) C. L. Nikias and D. Hatzinakos, 'Target Detection and Estimation in Non-Gaussian Environments', *Research Progress Reports of the IAB meeting*, Center for Electromagnetics Research, Northeastern University, p.p. 307-322, March 1988.

(f) C. L. Nikias and D. Hatzinakos, 'Advanced Radar Signal Processing. Part II: An Adaptive Technique', *Research Progress Reports of the IAB meeting*, Center for Electromagnetics Research, Northeastern University, p.p. 72-82, May 1989.

(g) C. L. Nikias and D. Hatzinakos, 'Advanced Radar Signal Processing. Further Results on an Adaptive Technique', *Research Progress Reports of the IAB meeting*, Center for Electromagnetics Research, Northeastern University, p.p. 41-51, November 1989.

(h) C. L. Nikias and D. Hatzinakos, 'Advanced Radar Signal Processing. An Overview and Further Results', *Research Progress Reports of the IAB meeting*, Center for Electromagnetics Research, Northeastern University, p. 211, May 1990.

G.   Patents

(a) F. Agrafioti, F. M. Bui and D. Hatzinakos, "System and Method for Providing a System for Enabling Authentication Based on Medical Biometric Signals", US Provisional Patent application (062108-02353) filed May 10, 2012

(b) Liang Song and Dimitrios Hatzinakos, "Title: Method and Apparatus for Real Time Traffic Within Wireless Mesh Internet Infrastructure", United States Provisional Patent Application No. 61/064,860, Filed: 31 March 2008.

(c) L. Song, and D. Hatzinakos, "Method and Apparatus for Real Time Traffic Within Wireless Mesh Internet Infrastructure", File: 355-01 US Prov, Mar 31st, 2008.

(d) Liang Song, Dimitrios Hatzinakos and Stergios Stergiopoulos, Methods and Apparatus of Adaptive Time-Frequency-Space Interference Cancellation for UWB Communications, U.S. Provisional Patent Application, in process.

(e) D. Hatzinakos and S. Stergiopoulos, Method and System for Blind Reconstruction of Multi-frame Image Data, U.S. Provisional Patent Application, in process.

(f) S. Stergiopoulos and D. Hatzinakos, Method and Device for Measuring Systolic and Diastolic Blood Pressure and Heart Rate, U.S. Provisional Patent Application No. 60/656,382, filed Feb28., 2005.

(g) An invention disclosure entitled "Mesh Infrastructure for Wi-Fi broadband Real-time Service Providing" (Reference Number: 10001534, inventors Liang Song and Dimitrios Hatzinakos), was filed with the University of Toronto on Nov. 2, 2006.