Recent Conference Proceedings

1. "Gaborian Wavelets: Image Representation in Vision", The Neaman Workshop on Signal and Image Representation in Combined Spaces, Haifa 1994.

2. "Classification of Compressed Images Using Fourier Transform Phase-Based Invariants", SPIE's Symp. VCIP'94, Chicago 1994 (with Z. Abraham, M. Elbaz and J. Rubinstein).

3. "Discretization of the Gabor-Type Scheme by Sampling of the Zak Transform", SPIE's Symp. VCIP'94, Chicago 1994 (with M. Zibulski).

4. "Source Estimation of Auditory Brainstem Evoked Potentials: Comparison of 3CLT and Dipole Localization", Colleqium Oto-Rhino-Laringologicum Amicitae Sacrum, Lisbon 1994, (with H. Pratt, A. B. Geva and K. Feingold).

5. "Auditory Brainstem Evoked Potentials: Comparison of 3CLT and Two Dipole Localization Methods", 2nd Meeting of the Israel Society of Auditory Research, Tel-Aviv, Israel, October 1994, (with H. Pratt, A.B. Geva, and K. Feingold).

6. "Source Estimation of Auditory Brainstem Evoked Potentials by 3 Methods", Meeting of the Israeli Society of Neuroscience, Eilat, Israel, December 1994, (with H. Pratt, A.B. Geva, and K. Feingold).

7. "Spatio-Temporal Multiple Source Localization of Evoked Potentials", Electroenceph. clin, Neurophysiol. Vol. 91, 130P, 1994, (with A.B. Geva and H. Pratt).

8. "Signal and Image Reconstruction from Partial Fourier Phase", 12th ICPR, Jerusalem 1994 (with M. Elbaz, Z. Abraham and J. Rubinstein), Vol. 3, pp. 82-87.

9. "Spatial Chromatic Model for Color Image Processing", 12th ICPR, Vol. 1, Jerusalem 1994 (with S. Wolf and R. Ginosar).

10. "Super-resolution Estimation of Edge Images", 12th ICPR, Jerusalem 1994 (with Eyal Fosfeld), Vol. 1.

11. "The Furthest Point Strategy for Progressive image Sampling", 12th ICPR, Jerusalem 1994 (with Y. Eldar, M. Lindenbaum and M. Porat), Vol. 3, pp. 93-97.

12. "Wavelet-type Approach to Pattern Recognition", IAPR Int'l Workshop on Syntactic and Structural Pattern Recognition", Nahariya 1994.

13. "Schemes of Image Representation and Processing Motivated by Biological Vision", Japan-Israel Workshop CVVC'94, Haifa 1994.

14. "Spatio-Temporal Source Estimation Evoked Potentials by Wavelet-Type Decomposition", Bat-Sheva Seminar on Advances in Processing and Pattern Analysis of Biological Signals, Haifa, Israel, March 1995, (with A.B. Geva and H. Pratt).

15. "Interactions of Monocular and Cyclopean Forms and the Role of Depth in the Ebbinghaus Illusion", ECVP'95, Tubingen 1995 (with T. V. Papathomas, A. Feher, B. Julesz and Y. Y. Zeevi).

16. "Two-dimensional Orthogonal Wavelets with Vanishing Moments", SPIE Symp. on Wavelets, San Diego 1995 (with D. Stanhill).

17. "Analysis of Multi-Window Gabor-Type Schemes", SPIE Symp. on Wavelets, San Diego 1995

18. "Two-dimensional Orthogonal and Symmetrical Wavelets and Filter-Banks", ICASSP-96, Atlanta 1996 (with D. Stanhill).

19. "Education in Image Sciences and Engineering at the Technion", ICIP'96, Lausanne 1996 (with M. Lindenbaum).

20. "Signal- and Image-Component Separation by a Multi-Window Gabor-Type Scheme", 13th ICPR, Vienna 1996 (with M. Zibulski).

21. "Image Representation by Level Crossings of the Wavelet Transform", ICIP'96, Lausanne 1996 (with M. Shmoueli).

22. "Frame Analysis of Wavelet Type Filter Banks", DSP Workshop 1996, Loen, Norway (with D. Stanhill) in Proc. 7th IEEE Digital Signal Processing Workshop, pp. 435–438, 1996.

23. "2D Multiwavelets for Image Representation", The 19th Convention of the IEEE, Jerusalem 1996, pp. 251–254 (with D. Stanhill).

24. "Representation of Images by Surfaces and Higher Dimensional Manifolds in Non-Euclidean Space", 4–th Int. Conf. on Math. Methods for Curves and Surfaces, Lillehammer, Norway, July 3–8, 1997 (with N. Sochen).

25. "Nonseparable Two-Dimensional Multiwavelet Transform for Image Coding and Compression", SPIE Symp. VCIP'97 (with D. Wietzer), in Proc. SPIE, Vol. 3309, 1997, pp. 944–954.

26. "Two-Dimensional Multiwavelets with Vanishing Moments for Image Coding", IEEE MELECON'98, Tel-Aviv, 1998 (with D. Wajcer and D. Stanhill).

27. "Super-Resolution of Grey-Level Images by Inverse Diffusion Processes", IEEE MELECON'98, Tel-Aviv, 1998 (with N. Sochen).

28. "Automatic Transcription of Polyphonic Music Using the Multiresolution Fourier Transform", IEEE MELECON'98, Tel-Aviv, 1998 (with R. Keren and D. Chazan).

29. "Estimation of Single-Trial Evoked Signals by Local Transform Domain Filtering", IEEE MELECON'98, Tel-Aviv, 1998 (with P. Kisilev and H. Pratt).

30. "Detection and Processing of Single-Trial Evoked Potentials: A Nonparametric Approach", MEDICON'98, Cyprus, 1998 (with P. Kisilev and H. Pratt).

31. "Resolution Enhancement of Colored Images by Inverse Diffusion Processes", ICASSP'98, 1998 (with N. Sochen).

32. "Representation of Colored Images by Manifolds Embedded in Higher Dimensional Non-Euclidean Space", IEEE ICIP'98, Chicago 1998 (with N. Sochen).

33. "The Multi-Window Gabor-Type Analysis of Images and Multidimensional Signals", ICIP'98, Chicago 1998 (with Z. Piao and M. Zibulski).

34. "Representation and Coding of Images with Nonseparable Two-Dimensional Wavelets", ICIP'98, Chicago 1998 (with D. Wajcer and D. Stanhill).

35. "Multiresolution Time-Frequency Analysis of Polyphonic Music", IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis (TFTS'98), Pittsburgh 1998 (with R. Keren and D. Chazan).

36. "Multidimensional Multi-Window Nonrectangular Discrete Gabor Schemes", IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis (TFTS'98), Pittsburgh 1998.

37. "Two-Dimensional Nonseparable Multiwavelet Transform and Its Application", IEEE-SP International Symposium on Time-Frequency and Time-Scale Analysis (TFTS'98), Pittsburgh 1998.

38. "Estimation of Noisy Signals Based on Local Transforms", IEEE-DSP, Bryce Canyon 1998 (with P. Kisilev and H. Pratt).

39. "Nonseparable 2D Multiwavelets with Orientation Preference for Image Representation and Compression", IEEE-DSP, Bryce Canyon 1998 (with D. Wajcer and D. Stanhill).

40. "Color Space Geometry via the Beltrami Framework", IEEE ICASSP'99, Pheonix, 1999 (with N. Sochen).

41. "Local Transform Processing of Single-Trial Evoked Potentials", European Medical and Biological Engineering Conference EMBEC'99, Vienna, 1999 (with P. Kisilev and H. Pratt).

42. "A Geometric Functional for Derivatives Approximation", The 2nd International Scale-Space, Korfu, Greece, 1999, 507–512 (with N. Sochen and R. Haralick).

43. "Anisotropic Selective Inverse Diffusion for Signal Enhancement in the Presence of Noise", Proc. IEEE ICASSP-2000, Istanbul, Turkey 2000 Vol. 1, pp. 211–224, June 2000. (with G. Gilboa and N. Sochen).

44. "Signal and Image Enhancement by a Generalized Forward-and-Backward Adaptive Diffusion Process", EUSIPCO–2000, Tampere, Finland September 2000. (with G. Gilboa and N. Sochen).

45. "Wavelet Domain ML Reconstruction in Positive Emission Tomography", World Congress on Medical Physics, Chicago 2000 (with P. Kisilev and M. Jacobson).

46. "Gabor-Space Geodesic Active Contours", AFPAC 2000, Kiel, 2000 (with C. Sagiv and N. Sochen).

47. "Algebraic Frames for the Perception-Action Cycle", AFPAC 2000, Kiel Germany Sept. 10–11, 2000 (with G. Sommer).

48. "Color Image Enhancement by a Forward-and-Backward Adptive Beltrami Flow", AFPAC-2000, Kiel 2000, LNCS 1888, pp. 319–328, 2000, Springer-Verlag. (with N. Sochen and G. Gilboa).

49. "Gabor Feature Space Diffusion via the Minimal Weighted Area Method", EMMCVPR, INRIA, Sophia Antipolis, 2001, G21–G35 (with C. Sagiv and N. Sochen).

50. "Complex Diffusion Processes for Image Filtering", Scale-Space'01, Vancouver, 2001, LNCS 2106, pp. 299–307, (with G. Gilboa and N. Sochen).

51. "Resolution Enhancement by Forward-and-Backward Nonlinear Diffusion Processes", NISP'01, Baltimore, Maryland, June 2001. (with G. Gilboa and N. Sochen).

52. "Blind Source Separation Using Multiscale Representations", IEEE-EURASIP Workshop NISP'01, Baltimore, 2001 in: Advances in Neural Information Processing Systems, Vol. 14, pp.185–191, 2002. (with P. Kisilev and M. Zibulevsky).

53. "Geodesic Active Contours Applied to Texture Feature Space", Scale-Space'01, Vancouver, Canada, July 01, 344–352 (with C. Sagiv, and N. Sochen).

54. "Image Enhancement Segmentation and Denoising by Time Dependent Nonlinear Diffusion Processes", ICIP'01, Thessalonicki, Greece, October 2001, (with G. Gilboa and N. Sochen).

55. "Blind Source Separation Using Multinode Sparse Representation", ICIP'01, Thessalonicki, Greece, October 2001, (with M. Zibulevsky, P. Kisilev).

56. "Wavelet Representation and Total Variation Regularization in Emission Tomography", ICIP'01, Thessalonicki, Greece, October 2001, (with P. Kisilev and M. Zibulevsky).

57. "Sparsity and Error-Dependent Multiscale Blind Source Separation", 10th DSP Workshop, Georgia, Oct. 2002 (with P. Kisilev and M. Zibulevsky).

58. "Regularized Shock Filters and Complex Diffusion", ECCV 2002, Copenhagen, May 27 – June 2, LNCS 2350, pp. 399–413 Springer Verlag 2002, (with G. Gilboa and N. Sochen).

59. "Wavelet-Based Multiresolution Stereo Vision", IEEE 3DPVT 2002, Padova, Italy, June 19–21, 2002 (with G. Caspary).

60. "Optimal nonlinear estimation of photon coordinates in PET", International Symposium on Biomedical Imaging, ISBI2002, Washington DC 2002, pp. 541–544 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

61. "Iterative reconstruction in diffraction tomography using non-uniform fast Fourier transform", International Symposium on Biomedical Imaging, ISBI2002, Washington DC 2002, pp. 633–636 (with M.M. Bronstein, A.M. Bronstein and M. Zibulevsky).

62. "Geodesic Active Contours Applied to Texture Feature Space", Texture 2002, Denmark, May 2002 (with C. Sagiv and N. Sochen).

63. "Complex Diffusion Processes for Image Filtering", ECCV 2002, Denmark, May 2002 (with G. Gilboa and N. Sochen).

64. "Wavelet-based Multiresolution Stereo Vision", ICPR 2002, Quebec City, Canada, August 2002, ICPR02, III pp. 680–683, IEEE Abstract:0211 (with G. Caspary).

65. "Blind Separation of Mixed Images Using Multiscale Transforms", VCIP 2003, Lugano, Switzerland, July 8–11, 2003 (with Pavel Kisilev and Michael Zibulevsky).

66. "Blind Separation of Mixed Images in Subspaces of Sparse Representations", Wavelet X Conference, San Diego, CA, August 3–8, 2003, (with Pavel Kisilev and Michael Zibulevsky).

67. "Blind Separation of Mixed Images Using Multiscale Transforms", ICIP 2003, Barcelona, Sept. 14–17, 2003, pp. 309–312, (with Pavel Kisilev and Michael Zibulevsky).

68. "Separation of Reflections via Sparse ICA", ICIP 2003, Barcelona, Sept. 14–17, 2003, pp. 313–316, (with M. Bronstein, A. Bronstein and Michael Zibulevsky).

69. "PDE-Based Denoising of Complex Scenes Using a Spatially-Varying Fidelity Term", ICIP 2003, Barcelona, Sept. 14–17, 2003, pp. 865–868, (with G. Gilboa and N. Sochen).

70. "Color Image Denoising and Blind Deconvolusion Using the Beltramy Operator", Proceedings of the 3rd International Symposium on Image and Signal Processing and Analysis, Rome, Italy, September 18–20, 2003, pp. 1–4 (with R. Kaftory and N. A. Sochen).

71. "Texture Preserving Variational Denoising Using Adaptive Filtering Term", 2nd IEEE Workshop on Geometric, Variational and Level Sets Methods in Computer Vision, Nice, France, Oct. 2003 (with G. Gilboa and N. Sochen).

72. "Separation of semireflective layers using Sparse ICA", Proc. ICASSP 2003, Vol. 3, pp. 733–736 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

73. "Quasi maximum likelihood blind deconvolution of images acquired through scattering media", Proc. ISBI, 2004, pp. 352–355 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

74. "Effect of Neural Microcircuit Structure on its Computational Performance", Dynamical Neuroscience XII: Closing the Loop, San Diego, 2004 (with I. Raichelgauz, K. Odinaev and S. Marom).

75. "Optimal sparse representations for blind source separation and blind deconvolution: A learning approach", Proc. IEEE ICIP 2004, pp. 1815–1818 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

76. "Fast relative Neuton algorithm for blind deconvolution of images", Proc. IEEE ICIP 2004, pp. 1233–1236 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

77. "Blind Separation of Spatio-Temporal Data Sources", ICA 2004, Granada, Spain, pp. 962–969 (with H. Unger).

78. "QML Blind Deconvolution: Asymptotic Analysis", ICA 2004, Granada, Spain (with A.M. Bronstein, M.M. Bronstein and Y.Y. Zeevi).

79. "Optimal sparse representations for blind deconvolution of images", ICA 2004, Granada, Spain, pp. 507–507 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

80. "Blind Separation of a Dynamic Image Source from Superimposed Reflections", 13th European Signal Processing Conf. (EUSIPCO2005), September 2005, Antalya, Turkey (with H. Unger).

81. "Indexing of Macromolecules using Multiwindow Gabor Representations", IEEE 4th Int'l Workshop on Content-Based Multiwindow Indexing CBMI 2005, Riga (with N.K. Subbanna).

82. "Unmixing Tissues: Sparse Component Analysis in Multi-Contrast MRI", IEEE ICIP, Genova, Sept. 2005 (with A.M. Bronstein, M.M. Bronstein and M. Zibulevsky).

83. "Estimation of the Optimal Variational Parameters via SNR Analysis", Int'l Conf. Scale-Space and PDE Methods in Computer Vision, Hofgeismar, Germany, April 2005, (with G. Gilboa and N. Sochen).

84. "Scale-Space Generation via Uncertainty Principles", Int'l Conf. Scale-Space and PDE Methods in Computer Vision, Hofgeismar, Germany, pp. 351–362, April 2005 (with C. Sagiv and N. Sochen).

85. "Blind Separation of a Dynamic Image Source from Superimposed Reflections", SPIE, San-Diego, 2005 (with H. Unger).

86. "Blind Separation of Complex-Valued Mixtures of Images: Sparse Representation in Polar Scatter-Plots", 13th European Signal Processing Conf. (EUSIPCO2005), Sept. 4-8, 2005, Antalya, Turkey (with E. Orian).

87. "An Efficient Analysis Technique for DNA Sequences Using Multiwindow Gabor Representations", 13th European Signal Processing Conf. (EUSIPCO2005), Sept. 4-8, 2005, Antalya, Turkey (with N.K. Subbanna).

88. "Automatic Transcription of Piano Polyphonic Music", IEEE 4th Int'l Symposium on Image and Signal Processing and Analysis, ISPA 2005, Zagrev (with A. Kobzantsev and D. Chazan).

89. "Oversampling of the Generalized Multiwindow Gabor Space", SampTa'05, Samsun, Turkey, July 2005 (with N.K. Subbanna and Y. Eldar).

90. "Optimal Processing of Color for Dense Stereo Vision", 13th European Signal Processing Conf. (EUSIPCO 2005), Sept. 2005, Antalya, Turkey (with E. Pinhasov and N. Shimkin).

91. "Co-evolutionary Learning in Liquid Architectures", 8th International Workshop on Artificial Neural Networks", June 2005, Barcelona (with I. Raichelgauz and K. Odinaev), pp. 241–248.

92. "Reward-Based Liquid Computing", The 9th Int'l Conf. on Engineering Applications of Neural Networks (EANN2005), 24–26 August, 2005, Lille, France (with K. Odinaev and I. Raichelgauz).

93. "Two-Dimensional Sampling and Representation of Folded Surfaces Embedded in Higher Dimensional Manifolds", 14th European Signal Processing Conf. (EUSIPCO 2006), Sept. 2006, Florence, Italy (with E. Saucan and E. Appleboim).

94. "Natural Signal Classification by Neural Cliques and Phase-Locked Attractors", IEEE World Congress on Computational Intelligence, IJCNN2006, Vancouver, Canada, July 2006 (with I. Raichelgauz and K. Odinaev).

95. "Natural Signal Classification by Neural Cliques and Phase-Locked Attractors", IEEE EMB, New York, September 2006, pp. 6693–6697.

96. Blind Separation of Time-Varying Signal Mixtures Using Zadeh Transform", EUSIPCO 2006, Florence, Italy, Sept. 2006 (with R. Kaftory).

97. "Image Representation using Discrete Non-Canonical Multiwindow Gabor Frames", Proc. Int'l Conf. Visual Information Engineering (VIE 2006), Sept. 2006, Bangalore, India (with N. K. Subbanna), pp. 522–527.

98. Quasi-Conformal and Quasi-Isometric Development of Triangulated Surfaces for Computerized Tomography, IWCIA, Berlin 2006 (with E. Appleboim, E. Saucan and O. Zeitouni).

99. "Variational Distance-Dependent Image Restoration", CVPR 2007, Minneapolis, MN (with R. Kaftory and Y. Schechner).

100. "Telegraph-Diffusion Operator for Image Enhancement", IEEE ICIP, San Antonio, Sept. 2007 (with V. Ratner).

101. "Probabilistic Geometric Approach to Blind Separation of Time-Varying Mixtures", 7th International Conf. ICA, London, Sept. 2007 (with R. Kaftory).

102. "Image Enhancement Using Elastic Manifolds", 14th International Conf. Image Analysis and Processing (ICIAP 2007), Sept. 2007, Modena, Italy (with V. Ratner).

103. "Geometric Sampling and Reconstruction of Manifolds for Image Processing", SSVM'07, Ischia, Italy, June 2007 (with E. Appleboim and E. Saucan).

104. "Blind Separation of Images obtained by Spatially-Varying Mixing Systems", IEEE ICIP 2008, San Diego (with R. Kaftory).

105. "Combinatorial Ricci Curvature for Image Processing", MICCAI 2008 Workshop *Manifolds in Medical Imaging: Metrics, Learning and Beyond*, New York, 2008 (with E. Saucan, G. Wolanski and E. Appleboim).

106. "Image Representation and Enhancement on Elastic Manifolds", Proc. PRIME 2008, Istanbul (with V. Ratner).

107. "Analysis and Segmentation of Brain MR Images with Blind Source Separation Techniques", IEEE DSP, July 2009, Santorini, Greece (with E. Vizel and D. Carasso).

108. "Blind Source Separation using Mixtures Scatter Plot Properties", IEEE DSP, July 2009, Santorini, Greece (with D. Carasso and E. Vizel).

109. "The Dynamics of Image Processing Viewed as Deformation of Elastic Sheet", IEEE DSP, July 2009, Santorini, Greece (with V. Ratner).

110. "Fast Wavelet-Packet-Based Shift-Invariant Feature Extraction", IEEE DSP, July 2009, Santorini, Greece (with A. Achtenberg and M. Shamis).

111. "Edge Detection and Skeletonization using Quantized Localized Phase", EUSIPCO, Aug. 2009, Glasgow, Scotland (with N. Skarbnik and C. Sagiv).

112. "The Dynamics of Image Processing Viewed as Dampled Elastic Deformation", EUSIPCO, Aug. 2009, Glasgow, Scotland (with V. Ratner).

113. "Blind Separation of Position Varying Mixed Images, IEEE ICIP 2009, Cairo, Egypt (with R. Kaftory).

114. "Geometric Reproducing Kernels for Signal Reconstruction", SampTA'09, May 2009, Marseille, France (with E. Appleboim and E. Saucan).

115. "Geometric Sampling of Images, Vector Quantization and Zador's Theorem", SamTA'09, May 2009, Marseille, France (with E. Appleboim and E. Saucan).

116. "A model for simultaneous encoding of "where" and "what" information in the Prefrontal Cortex", Computational Neuroscience Meeting CNS2009, Berlin, July 2009; BMC Neurosci (2009) 10 (Suppl. 1): p. 283, Springer Nature (with E. Barak-Shimron and R. Meir).

117. "Cliques in Cortical Ensembles and Co-evolutionary Learning in Liquid Architectures", CNS 2009 Workshop on Information Theoretic Approach (Invited paper), Berlin, July 2009 (with I. Raichelgauz and K. Odinaev).

118. "Combinatorial Ricci Curvature and Laplacians for Image Processing", 2nd International Congress on Signal Processing (CISP'09, Tianjin, China, Oct. 2009 (with E. Saucan, G. Volansky and E. Appleboim).

119. "Independent Component Analysis of Instantaneous Time/Position Varying Mixtures", 9th International Conference on LVA/ICA, Sept. 2010, St. Malo, France (with M. Shamis).

120. "Automatic Gain Control of Multidimensional Visual Adaptation", International Conf. Neural Computation, ICNC, Oct. 2010, Valencia, Spain, pp. 163–175 (with S. Furman).

121. "Sparse Source Separation of Non-instantaneous Spatially Varying Single Path Mixtures", 10th Asian Conf. on Computer Vision, ACCV20D, New Zealand, 2010 (with A. Achtenberg).

122. "Stable Image Enhancement by Adaptive Damped Wave Equation with Force Term", SITIS 2011, Dijon, France (with V. Ratner).

123. "Blind Source Separation of Underdetermined Time/Position Varying Mixtures", LVA/ICA 2012, Tel-Aviv (with Y. Michael).

124. "Ricci Curvature and Flow for Image Denoising and Super-Resolution", EUSIPCO 2012, Bucharest, Romania, August 2012 (with E. Saucan and E. Appleboim).

125. "Single-Image Superresolution of Self-Similar Textures", IEEE ICIP 2013, Melbourne, Australia (with I. Zachevsky).

126. "Stable Denoising-Enhancement of Images by Telegraph-Diffusion", IEEE ICIP 2013, Melbourne, Australia (with V. Ratner).

127. "On the Statistics of Natural Stochastic Images and Their Application in Image Processing", IEEE ICASSP 2014, Florence, Italy (with I. Zachevsky).

128. "Combining Long-Range Dependencies with Phase Information in Stochastic Texture Enhancement", IEEE ICIP 2014, Paris (with I. Zachevsky).

129. "Ricci Flow for Image Processing", IEEEI 2014, Eilat, Israel (with E. Sonn, E. Saucan and E. Appleboim).

130. "Computing Quasi-Conformal Maps in 3D with Applications to Geometric Modeling and Imaging", IEEEI 2014, Eilat, Israel (with A. Naitsat and E. Saucan).

131. "Texture Enhancement Using Diffusion Process with Potential", IEEEI 2014, Eilat, Israel (with E. Cohen and L. D. Cohen).

132. "Statistics of Stochastic Textures: Application in Pattern Analysis and Image Processing", IEEEI 2014, Eilat, Israel (with I. Zachevsky).

133. "Volumetric Quasi-Conformal Mappings", VISIGRAPP 2015, Berlin, Germany (with A. Naitsat and E. Saucan).

134. "Denoising of Natural Stochastic Colored-Textures based on Fractional Brownian Motion Model", IEEE ICIP, 27–30 September, 2015, Québec City, Canada (with I. Zachevsky).

135. "On the Role of Non-local Menger Curvature in Image Processing", IEEE ICIP, 27–30 September, 2015, Québec City, Canada (with G. Gilboa, E. Appleboim and E. Saucan).

136. "Image Unmixing Success Estimation in Spatially Varying Systems", IEEE GLOBALSIP 2015, Orlando, Florida, USA (with R. Gaizman).

137. "Model-based Color Natural Stochastic Textures Processing and Classification", GLOBALSIP 2015, pp. 1357–1361, Orlando, Florida, USA (with I. Zachevsky).

138. "Geometric Approach to Estimation of Volumetric Distortions", VISIGRAPP 2016, Rome, Italy, 27–29 February, 2016 (with A. Naitsat and E. Saucan).

139. "Geometric Approach to Detecting Volumetric Changes in Medical Images", International Conference on Information and Computational Science (ISISC) 2016) (with A. Naitsat, S. Cheng, X. Qu, X. Fan, E. Saucan).

140. "Local and Global Fractal Behaviour in Mammographic Images", XIV Mediterranean Conference on Medical and Biological Engineering and Computing 2016, IFMBE Proceedings 57, pp. 228–233, Cyprus (with I. Zachevsky).

141. "Exploiting Spatial Phase in Deconvolution of Structured Stochastic Textures", ICSEE 2016, Eilat, Israel (with I. Zachevsky).

142. "A Differential Geometry Approach for Change Detection in Medical Images", CBMS 2017, Thessaloniki, Greece, June 2017 (with A. Naitsat and E. Saucan).

143. "Manifold-Based Analysis of Natural Stochastic Tectures with Application to Texture Synthesis", ICASSP 2018, pp. 1298–1302, Calgary, Canada 2018 (with I. Zachevsky).

144. "Modeling of Local Phase of Images and Textures with Applications in Phase Denoising and Phase Retrival", Corr 2018 (with I. Zachevsky).

145. "Inpainting of Surfaces and Images", ICSEE 2018, Eilat, Dec. 2018 (with O. Krengal and E. Appelboim), Eilat, Dec. 2018.

146. "Face Anti-spoofing Based on Projective Invariants", 2018 IEEE International Conference on the Science of Electrical Engineering in Israel (ICSEE), Eilat, Israel, Dec. 2018 (with A. Naitsat).

147. "Analysis of Piecewise Fractional Brownian Motion Signals and Textures", 2018 IEEE International Conference on the Science of Electrical Engineering in Israel (ICSEE), Eilat, Israel, Dec. 2018 (with A. Naitsat).

148. "Fractal Features Combined with Local Phase Information in Texture Analysis", 2019 11th International Symposium on Image and Signal Processing and Analysis (ISPA), Dubrovnik, Croatia, Sept. 2019 (with S. Khawaled).

149. "Adaptive Block Coordinate Descent for Distortion Minimization", Symposium on Geometry Processing 2019 (SGP 2019) (with A. Naitsat).