

LIST OF PUBLICATIONS OF DR. BING ZENG

A. Book chapters:

1. **B. Zeng**: *Digital Image and Video Compression and Processing*, in “Multimedia Computing and Networking”, edited by Kevin Jeffay and Hong Jiang Zhang, Morgan Kaufmann, 2002.

B. Journal papers published or accepted for publication:

1. G. Shen, **B. Zeng**, and M. L. Liou, “Adaptive vector quantization with locality updating and history aid,” to appear in *IEEE Transactions on Image Processing*, March 2003.
2. S. M. Raihan, Y. Wen, and **B. Zeng**, “Joint time-frequency distributions for analysis of economics fluctuations,” to appear in the 1st issue of *International Journal on Wavelets, Multiresolution and Information Processing (IJWMIP)*, March 2003.
3. **B. Zeng**, M. S. Fu, and C. C. Chuang, “New interleaved hierarchical interpolation with median-based interpolators for progressive image transmission,” *Signal Processing*, vol. 81 (2001), pp. 431-438.
4. G. Shen, **B. Zeng**, and M. L. Liou, “Arbitrarily-shaped transform coding based on a new padding technique,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 11, no. 1 January 2001, pp. 67-79.
5. R. Li, **B. Zeng**, and M. L. Liou, “Reliable motion detection/compensation for interlaced sequences and its applications to deinterlacing,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 10, no. 1, February 2000, pp. 23-29.
6. Y. Wen and **B. Zeng**, “A simple non-linear filter for economic time series analysis,” *Economics Letter* 64 (1999), pp. 151-160.
7. **B. Zeng**, “Reduction of blocking effect in DCT-coded images using zero-masking techniques,” *Signal Processing*, vol. 79 (1999), pp. 207-211.
8. **B. Zeng** and A. N. Venetsanopoulos, “Image interpolation based on median-type filters,” *Optical Engineering*, vol. 37, no. 9, September 1998, pp. 2472-2482.
9. **B. Zeng**, R. Li, and M. L. Liou, “Optimization of fast block motion estimation algorithms,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 7, December 1997, pp. 833-844.
10. **B. Zeng**, “Optimal median-type filtering under structural constraints,” *IEEE Transactions on Image Processing*, vol. 4, July 1995, pp. 921-931.
11. **B. Zeng**, “Convergency properties of median and weighted median filters,” *IEEE Transactions on Signal Processing*, vol. 42, December 1994, pp. 3515-3518.
12. R. Li, **B. Zeng**, and M. L. Liou, “A new three-step search algorithm for block motion estimation,” *IEEE Transactions on Circuits and Systems for Video Technology*, vol. 4, August 1994, pp. 438-442.
13. **B. Zeng** and Y. Neuvo, “Optimal parallel stack filtering under the mean absolute error criterion,” **IEEE Transactions on Image Processing**, vol. 3, May 1994, pp. 324-327.
14. T. Laakso, **B. Zeng**, I. Hartimo, and Y. Neuvo, “Elimination of limit cycles in floating-point implementations of recursive digital filters,” *IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing*, vol. 41, April 1994, pp. 308-313.
15. **B. Zeng** and Y. Neuvo, “Interpolative BTC image coding with vector quantization,” *IEEE Transactions on Communications*, vol. 41, October 1993, pp. 1436-1438.
16. **B. Zeng** and Y. Neuvo, “A digital filter structure with constant output roundoff noise level independent of filter bandwidth,” *IEEE Transactions on Circuits and Systems*, vol. 38, December 1991, pp. 1547-1551.
17. **B. Zeng**, “On the root structures of weighted median filters,” *IEEE Transactions on Circuits and Systems*, vol. 38, November 1991, 1402-1404.

18. **B. Zeng**, M. Gabbouj, and Y. Neuvo, "A unified design method for rand order, stack, and generalized stack filters based on classical Bayes decision," *IEEE Transactions on Circuits and Systems*, vol. 38, September 1991, pp. 1003-1020.
19. **B. Zeng**, H. Zhou, and Y. Neuvo, "FIR stack hybrid filters," *Optical Engineering, Special Issue on Visual Communications and Image Processing III*, July 1991, pp. 965-975.
20. **B. Zeng**, "Two interpolative BTC image coding schemes," *Electronics Letters*, vol. 27, no. 12, 20th June 1991, pp. 1126-1128.
21. **B. Zeng** and Y. Neuvo, "Analysis of floating-point roundoff errors using dummy multiplier coefficient sensitivity," *IEEE Transactions on Circuits and Systems*, vol. 38, June 1991, pp. 590-601.

C. Journal papers submitted:

1. H. Cai, **B. Zeng**, G. Shen, and S. Li, "Error-resilient unequal loss protection of fine granularity scalable video bitstreams," submitted to *IEEE Transactions on Multimedia*.
2. H. Cai, G. Shen, Z. Xiong, S. Li, and **B. Zeng**, "Optimal packetization of FGS/PFGS bitstreams," submitted to *IEEE Transactions on Circuits and Systems for Video Technology*.
3. F. Wu, S. Li, **B. Zeng**, and Y.-Q. Zhang, "Drifting reduction in progressive fine granular scalable video coding," submitted to *IEEE Transactions on Circuits and Systems for Video Technology*.

D. Conference papers published or accepted for publication:

1. H. Cai, G. Shen, S. Li, and **B. Zeng**, "Optimal rate allocation for macroblock-based progressive fine granularity scalable video coding," in *Proc. of 2002 IEEE International Conference on Image Processing (ICIP-2002)*, Rochester, New York, USA, September 2002.
2. H. Cai, G. Shen, F. Wu, S. Li, and **B. Zeng**, "Error concealment for fine granularity scalable video transmission," in *Proc. of 2002 IEEE International Conference on Multimedia and Expo (ICME-2002)*, Lausanne, Switzerland, August 2002.
3. A. C. Yu, **B. Zeng**, and O. C. Au, "A novel motion estimation algorithm for arbitrarily shaped video coding," in *Proc. of 2002 IEEE International Conference on Multimedia and Expo (ICME-2002)*, Lausanne, Switzerland, August 2002.
4. H. Cai, G. Shen, Z. Xiong, S. Li, and **B. Zeng**, "An optimal packetization scheme for fine granularity scalable bitstream," in *Proc. of 2002 IEEE International Symposium on Circuits and Systems (ISCAS-2002)*, Phoenix, Arizona, USA, May 2002.
5. A. C. Yu, O. C. Au, and **B. Zeng**, "Removing of blocking artefacts using error-compensation interpolation and fast adaptive spatial-varying filtering," in *Proc. of 2002 IEEE International Symposium on Circuits and Systems (ISCAS-2002)*, Phoenix, Arizona, USA, May 2002.
6. S. M. Raihan, Y. Wen, and **B. Zeng**, "Joint time-frequency distributions for business cycle analysis," in *Proc. of the 2nd International Conference on Wavelet Analysis and Its Applications (WAA-2001)*, Hong Kong, China, December 2001, pp. 347-358.
7. H. Cai and **B. Zeng**, "Object-based classification of mixed-mode images," in *Proc. of 2001 Pacific Rim Conference on Multimedia (PCM-2001)*, Beijing, China, October 2001.
8. K. H. Leung and **B. Zeng**, "Wavelet-domain image watermarking based on statistic metrics," in *Proc. of 2001 Pacific Rim Conference on Multimedia (PCM-2001)*, Beijing, China, October 2001.
9. W. L. Lam and **B. Zeng**, "Fast texture synthesis by feature matching," in *Proc. of 2001 IEEE International Conference on Image Processing (ICIP-2001)*, Thessaloniki, Greece, October 2001.
10. K. H. Leung and **B. Zeng**, "Wavelet-based digital watermarking with halftoning technique," in *Proc. of 2001 IEEE International Symposium on Circuits and Systems (ISCAS-2001)*, Sydney, Australia, May 2001.
11. H. Cai and **B. Zeng**, "A new SPIHT algorithm based variable sorting thresholds," in *Proc. of 2001 IEEE International Symposium on Circuits and Systems (ISCAS-2001)*, Sydney, Australia, May 2001.

12. M. A. Razzak and **B. Zeng**, "Multiple description image transmission for diversity systems using block-based DC separation," in *Proc. of 2001 IEEE International Symposium on Circuits and Systems (ISCAS-2001)*, Sydney, Australia, May 2001.
13. G. Shen, **B. Zeng**, Y.-Q. Zhang, and M. L. Liou, "Transcoder with arbitrarily resizing capability," in *Proc. of 2001 IEEE International Symposium on Circuits and Systems (ISCAS-2001)*, Sydney, Australia, May 2001.
14. G. Shen, **B. Zeng**, and M. L. Liou, "Efficient vector quantization using history information," in *Proc. of 2001 Picture Coding Symposium (PCS-2001)*, Seoul, Korea, April 2001.
15. F. Wu, S. Li, **B. Zeng**, and Y.-Q. Zhang, "Drifting reduction in progressive fine granularity scalable video coding," in *Proc. of 2001 Picture Coding Symposium (PCS-2001)*, Seoul, Korea, April 2001.
16. G. Shen, **B. Zeng**, and M. L. Liou, "Rate-distortion optimization for arbitrarily-shaped object coding," in *Proc. of 2000 IEEE International Conference on Multimedia and Expo (ICME-2000)*, New York, USA, September 2000.
17. G. Shen, **B. Zeng**, and M. L. Liou, "Achieving optimal rate-distortion performance in arbitrarily-shaped transform coding," in *Proc. of 2000 IEEE International Symposium on Circuits and Systems (ISCAS-2000)*, Lausanne, Switzerland, May 2000.
18. G. Shen, **B. Zeng**, and M. L. Liou, "A hybrid scheme for arbitrarily-shaped transform coding of image/video segments," in *Proc. of 2000 IEEE International Symposium on Circuits and Systems (ISCAS-2000)*, Lausanne, Switzerland, May 2000.
19. P. C. Lai and **B. Zeng**, "Fast sub-optimal design of extended threshold Boolean filters," in *Proc. of 1999 IEEE International Conference on Image Processing (ICIP-1999)*, Kobe, Japan, October 1999.
20. P. C. Lai and **B. Zeng**, "Threshold pattern filters for image enhancement," in *Proc. of 1999 IEEE International Conference on Image Processing (ICIP-1999)*, Kobe, Japan, October 1999.
21. G. Shen, **B. Zeng**, and M. L. Liou, "A new padding technique for coding of arbitrarily-shaped image/video segments," in *Proc. of 1999 IEEE International Conference on Image Processing (ICIP-1999)*, Kobe, Japan, October 1999.
22. C. M. Lee and **B. Zeng**, "A novel interpolation scheme for rectangularly-subsampled images," in *Proc. of 1999 IEEE International Conference on Image Processing (ICIP-1999)*, Kobe, Japan, October 1999.
23. P. C. Lai and **B. Zeng**, "Design of threshold Boolean filters under the MSE criterion by iterative searching," in *Proc. of 1999 IEEE Workshop on Signal Processing Systems*, Taipei, Taiwan, October 1999.
24. P. C. Lai and **B. Zeng**, "Image enhancement filters based on threshold patterns," in *Proc. of 1999 IEEE Workshop on Non-linear Signal and Image Processing*, Antalya, Turkey, June 1999.
25. W. K. Ling and **B. Zeng**, "A novel method for blocking effect reduction in DCT-coded images," in *Proc. of 1999 IEEE International Symposium on Circuits and Systems (ISCAS-1999)*, Orland, USA, May/June 1999.
26. C. M. Lee and **B. Zeng**, "A novel interpolation scheme for quincunx-subsampled images," in *Proc. of 1999 IEEE International Symposium on Circuits and Systems (ISCAS-1999)*, Orland, USA, May/June 1999.
27. C. K. Ng and **B. Zeng**, "A new color image compression algorithm based on DCT and hierarchical data structure," in *Proc. of 1999 Visual Communications and Image Processing (VCIP-1999)*, San Jose, USA, January 1999, pp. 1050-1061.
28. C. K. Ng and **B. Zeng**, "A new fast motion estimation algorithm based on search window sub-sampling and object boundary pixel decimation," in *Proc. of 1998 IEEE International Conference on Image Processing (ICIP-1998)*, Chicago, USA, October 1998.
29. C. K. Ng and **B. Zeng**, "A new fast motion estimation algorithm based on search window sub-sampling and flexible pixel decimation," in *Proc. of International Symposium on Multimedia Information Processing*, Taipei, Taiwan, December 1998, pp. 478-483.

30. **B. Zeng**, "Roundoff noise analysis of floating-point paraunitary filter banks realized in lattice structure," in *Proc. of 1997 IEEE International Symposium on Circuits and Systems (ISCAS-1997)*, Hong Kong, June 1997, pp. 2405-2408.
31. **B. Zeng**, "Design of optimal stack filters: A neural net approach with BP algorithm," in *Proc. of 1996 IEEE International Conference on Systems, Man, and Cybernetics*, Beijing, China, October 1996.
32. **B. Zeng** and L. Gu, "Roundoff noise analysis of paraunitary filter banks realized in lattice structure," in *Proc. of 1997 IEEE Workshop on Digital Signal Processing*, Loen, Norway, September 1996, pp. 93-96.
33. K. K. Fung and **B. Zeng**, "Spatial/temporal interpolation for very-low-bit-rate video transmission," in *Proc. of 39th Midwest Symposium on Circuits and Systems*, Ames, Iowa, USA, August 1996, pp. 667-670.
34. P. Lakamsani, **B. Zeng**, and M. L. Liou, "An enhanced three step search motion estimation method and its VLSI architecture," in *Proc. of 1996 IEEE Symposium on Circuits and Systems (ISCAS-1996)*, Atlanta, USA, May 1996, pp. 754-757.
35. G. M. Cheung and **B. Zeng**, "Image interpolation using sub-band Wiener filters," in *Proc. of 1995 IASTED International Conference on Signal and Image Processing*, Las Vegas, USA, November 1995, pp. 387-390.
36. R. Li, **B. Zeng**, and M. L. Liou "Fast motion vector estimation using partitioned predictive control," in *Proc. of 1995 IASTED International Conference on Signal and Image Processing*, Las Vegas, USA, November 1995, pp. 215-218.
37. T. P. Chan, **B. Zeng**, and M. L. Liou "Block truncation coding of color images by hierarchical clustering," in *Proc. of 1995 IEEE Workshop on Non-linear Signal and Image Processing*, Greece, June 1995, pp. 337-339.
38. G. M. Cheung and **B. Zeng**, "Image interpolation using Wiener filters and neural networks," in *Proc. of 1995 IEEE Workshop on Non-linear Signal and Image Processing*, Greece, June 1995, pp. 742-745.
39. T. P. Chan, **B. Zeng**, and M. L. Liou "Visual pattern BTC with two principle colors for color images," in *Proc. of 1995 IEEE International Symposium on Circuits and Systems (ISCAS-1995)*, Seattle, USA, April/May 1995, vol. 1, pp. 235-238.
40. L. K. Ma, C. H. Lau, M. K. Kong, M. L. Liou, S. F. Yau, O. C. Au, and **B. Zeng**, "Implementation of audiovisual applications in LAN environment," in *Proc. of 1994 International Symposium on Consumer Electronics*, Hong Kong, November 1994, vol. 2, pp. 382-387.
41. T. P. Chan, **B. Zeng**, and M. L. Liou "BTC image coding with visual patterns," in *Proc. of 1994 IEEE Asia-Pacific Conference on Circuits and Systems*, Taipei, Taiwan, December 1994, pp. 646-651.
42. P. Lakamsani, R. Yang, **B. Zeng**, and M. L. Liou, "Design and implementation of a programmable stack filter," in *Proc. of the 1st International Conference on Image Processing (ICIP-1994)*, Austin, USA, November 1994, vol. III, pp. 664-667.
43. **B. Zeng**, "Design of optimal median-type filters under structural constraints," in *Proc. of 1994 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-1994)*, Adelaide, Australia, April 1994, vol. 5, pp. 65-68.
44. R. Li, **B. Zeng**, and M. L. Liou "A robust and fast block motion estimation algorithm," in *Proc. of 1994 International Symposium on Speech, Image Processing, and Neural Networks*, Hong Kong, April 1994, pp. 373-376.
45. **B. Zeng**, "Optimal parallel stack filtering for image processing," in *Proc. of 1993 International Conference on Neural Networks and Signal Processing*, Guangzhou, China, November 1993, pp. 647-652.
46. **B. Zeng**, and A. N. Venetsanopoulos "A split sorting-algorithm for generalized order statistic filters," in *Proc. of 1993 IEEE International Symposium on Circuits and Systems (ISCAS-1993)*, Chicago, USA, May 1993, pp. 946-949.
47. **B. Zeng**, and A. N. Venetsanopoulos "A JPEG-based interpolative image coding scheme," in *Proc. of 1993 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-1993)*, Minneapolis, USA, April 1993, vol. 5, pp. 393-396.

48. **B. Zeng**, and A. N. Venetsanopoulos “A comparative study of several non-linear image interpolation schemes,” in *Proc. of 1992 SPIE Visual Communications and Image Processing (VCIP-1992)*, Boston, USA, November 1992, pp. 21-29.
49. **B. Zeng**, and A. N. Venetsanopoulos “Boolean filtering with constant false alarm rate,” in *Proc. of the 5th Canadian Conference on Electrical and Computer Engineering*, Toronto, Canada, September 1992, pp. TM3.14.1-3.
50. **B. Zeng**, Y. Neuvo, and A. N. Venetsanopoulos “Optimal multi-stage stack filtering for image restoration,” in *Proc. of 1992 IEEE International Symposium on Circuits and Systems (ISCAS-1992)*, San Diego, USA, May 1992, pp. 117-120.
51. T. Laakso and **B. Zeng**, “Limit cycles in floating-point implementation of recursive filters – a review,” in *Proc. of 1992 IEEE International Symposium on Circuits and Systems (ISCAS-1992)*, San Diego, USA, May 1992, pp. 1816-1819.
52. **B. Zeng**, Y. Neuvo, and A. N. Venetsanopoulos “Interpolative BTC image coding,” in *Proc. of 1992 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-1992)*, San Francisco, USA, March 1992, vol. 3, pp. 493-496.
53. **B. Zeng**, Y. Neuvo, and A. N. Venetsanopoulos “A class of weighted median filters for image processing,” in *Proc. of the 26th Annual Conference on Information Sciences and Systems*, Princeton, USA, March 1992.
54. T. Sun, **B. Zeng**, and Y. Neuvo, “Multilevel stack filtering for image processing applications,” in *Proc. of 1992 SPIE Symposium on Electronic Imaging: Science and Technology, Non-linear Image Processing III*, San Jose, USA, February 1992.
55. **B. Zeng**, M. Gabbouj, and Y. Neuvo, “Design of minimum MAE generalized stack filters for image processing,” in *Proc. of 1992 SPIE Visual Communications and Image Processing (VCIP-1991)*, Boston, USA, November 1991, pp. 443-454.
56. J. Kontro, **B. Zeng**, and Y. Neuvo, “On floating-point sigma-delta D/A conversion,” in *Proc. of 1991 IEEE Workshop on Applications of Signal Processing to Audio and Acoustics*, Mohonk, Mountain House, USA, October 1991.
57. **B. Zeng** and Y. Neuvo, “Interpolated BTC image coding by median filtering,” in *Proc. of 9th International Conference on Digital Signal Processing*, Florence, Italy, September 1991, pp. 368-372.
58. **B. Zeng**, T. Laakso, I. Hartimo, and Y. Neuvo, “Error feedback for floating-point recursive digital filters,” in *Proc. of European Conference on Circuit Theory and Design (ECCTD-1991)*, Copenhagen, Denmark, September 1991, pp. 159-168.
59. H. Zhou, **B. Zeng**, and Y. Neuvo, “Finite precision effects of floating-point linear prediction employing autocorrelation lattice algorithm,” in *Proc. of European Conference on Circuit Theory and Design (ECCTD-1991)*, Copenhagen, Denmark, September 1991, pp. 141-149.
60. H. Zhou, **B. Zeng**, and Y. Neuvo, “Weighted FIR median hybrid filters for image processing,” in *Proc. of 1991 International Conference on Circuits and Systems*, Shenzhen, China, June 1991, pp. 793-796.
61. **B. Zeng**, M. Gabbouj, and Y. Neuvo, “Rank-order filters and Bayes posterior decision,” in *Proc. of 1991 IEEE International Symposium on Circuits and Systems (ISCAS-1991)*, Singapore, June 1991, pp. 224-227.
62. **B. Zeng** and Y. Neuvo, “Design of direct-form FIR digital filters with discrete valued coefficients,” in *Proc. of 1991 IEEE International Symposium on Circuits and Systems (ISCAS-1991)*, Singapore, June 1991, pp. 152-155.
63. **B. Zeng**, Q. Wang, and Y. Neuvo, “BTC image coding using two-dimensional median filter roots,” in *Proc. of 1991 IEEE International Symposium on Circuits and Systems (ISCAS-1991)*, Singapore, June 1991, pp. 400-403.
64. H. Zhou, **B. Zeng**, and Y. Neuvo, “FIR stack hybrid filters,” in *Proc. of 1991 IEEE International Symposium on Circuits and Systems (ISCAS-1991)*, Singapore, June 1991, pp. 212-215.
65. **B. Zeng**, M. Gabbouj, and Y. Neuvo, “Design of optimal generalized stack filters under the mean absolute error criterion,” in *Proc. of 1991 IEEE Workshop on Visual Signal Processing*, Taipei, Taiwan, June 1991, pp. 79-82.

66. **B. Zeng**, M. Gabbouj, and Y. Neuvo, "Optimal stack filtering and classical Bayes decision," in *Proc. of 1991 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-1991)*, Toronto, Canada, May 1991, pp. 2009-2012.
67. **B. Zeng**, H. Zhou, and Y. Neuvo, "Synthesis of optimal detail-restoring stack filters for image processing," in *Proc. of 1991 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-1991)*, Toronto, Canada, May 1991, pp. 2533-2536.
68. **B. Zeng**, T. Laakso, I. Hartimo, and Y. Neuvo, "Error feedback for floating-point cascade-form digital filters," in *Proc. of 1991 IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP-1991)*, Toronto, Canada, May 1991, pp. 1925-1928.
69. H. Zhou, **B. Zeng**, and Y. Neuvo, "Pyramid median filtering by block threshold decomposition," in *Proc. of SPIE Symposium on Electronic Imaging: Non-linear Image Processing II*, San Jose, USA, February 1991, pp. 2-12.
70. **B. Zeng**, and Y. Neuvo, "On one-multiplier Gray-Markel lattice allpass structure," in *Proc. of 24th Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, USA, November 1990, pp. 283-287.
71. **B. Zeng**, and Y. Neuvo, "A new design method for direct-form IIR digital filters with discrete coefficients," in *Proc. of 24th Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, USA, November 1990, pp. 288-292.
72. **B. Zeng**, and Y. Neuvo, "Roundoff noise analysis of digital allpass structures," in *Proc. of 1990 International Conference on Signal Processing*, Beijing, China, October 1990, pp. 107-110.
73. T. Laakso, **B. Zeng**, I. Hartimo, and Y. Neuvo, "Elimination of limit cycles in floating-point recursive digital filters with error feedback," in *Proc. of 33rd Midwest Symposium on Circuits and Systems*, Calgary, Canada, August 1990, pp. 833-836.
74. **B. Zeng**, H. Zhou, and Y. Neuvo, "A new class of median/mean based filters," in *Proc. of 33rd Midwest Symposium on Circuits and Systems*, Calgary, Canada, August 1990, pp. 449-452.
75. T. Laakso, **B. Zeng**, I. Hartimo, and Y. Neuvo, "Reduction of floating-point roundoff noise in recursive digital filters with error feedback," in *Proc. of 1990 IEEE International Conference on Systems Engineering*, Pittsburgh, USA, August 1990, pp. 244-247.
76. **B. Zeng**, and Y. Neuvo, "Design of suboptimal/optimal stack filters under the mean absolute error criterion," in *Proc. of 1990 IASTED International Conference on Signal Processing and Digital Filtering*, Lugano, Switzerland, June 1990.
77. **B. Zeng**, and Y. Neuvo, "Roundoff noise properties of lattice filters employing floating-point arithmetic," in *Proc. of 1989 European Conference on Circuit Theory and Design*, Brighton, UK, September 1989, pp. 233-237.
78. **B. Zeng**, and Y. Neuvo, "In search of good filter structures for floating-point implementation," in *Proc. of 8th Kobe International Symposium on Electronics and Information Sciences*, Kobe, Japan, July 1989, pp. 5.1-5.11.
79. **B. Zeng**, and Y. Neuvo, "Roundoff noise analysis for floating-point digital filters realized in cascade and parallel forms," (selected as an invited paper) in *Proc. of 1989 International Conference on Circuits and Systems*, Nanjing, China, July 1989, pp. 898-901.

E. Conference papers submitted:

1. H. Cai, **B. Zeng**, G. Shen, and S. Li, "Error-resilient unequal protection of fine granularity scalable video bitstreams," submitted to *2003 IEEE International Conference on Image Processing (ICIP-2003)*, Barcelona, Spain, September 2003.
2. H. Cai, G. Shen, S. Li, and **B. Zeng**, "Low-complexity near-optimal packetization method for fine granularity scalable (FGS) video streaming," submitted to *2003 IEEE International Symposium on Circuits and Systems (ISCAS-2003)*, Bangkok, Thailand, May 2003.