

## References

- Ageenko, E., Kopylov, P., Franti, P. (2001). On the size and shape of multi-level context templates for compression of map images. *Proceedings of the International Conference on Image Processing, 2001*. Volume: 3 , 2001. Page(s): 458 -461.
- Ausbeck, P.J., Jr. (1998). Context models for palette images. *Proceedings of the Data Compression Conference, 1998*. Page(s): 309 -318A.
- Ausbeck, P.J., Jr. (2000). The piecewise-constant image model. *Proceedings of the IEEE*. Volume: 88 Issue: 11, 2000. Page(s): 1779 -1789.
- Barclay T., Gray J., Slutz D. (2000), Microsoft TerraServer: a spatial data warehouse. *Proceedings of the 2000 ACM SIGMOD international conference on Management of Data, 2000*. New York. Page(s): 307 -318.
- Baumann, P. (2001), Web-enabled raster GIS services for large image and map databases. *Proceedings of the 12th International Workshop on Database and Expert Systems Applications, 2001*. Page(s): 870 -874.
- Bernhardsen, T. (1999). *Geographic Information Systems: An Introduction*, 2nd edition. New York: John Wiley.
- Bonham-Carter, G. (1994). *Geographic Information Systems for Geoscientists: modeling with GIS*, 2nd edition. New York: Pergamon.
- Cleary, J.G., Teahan, W.J., & Witten, I.H. (1995). Unbounded length contexts for PPM. *Proceedings of the Data Compression Conference 1995*. Page(s): 52-61.
- Cleary, J.G. & Witten, I.H. (1984). Data compression using adaptive coding and partial string matching. *IEEE Transactions on Communications*. Volume: 32, Issue: 4, 1984. Page(s): 396-402.
- CompuServe Incorporated (1990). *Graphics Interchange Format, Version 89a*. Columbus, Ohio: CompuServe Incorporated. Online copy: <ftp://ftp.nesa.uiuc.edu:/misc/file.formats/graphics.formats/gif89a.doc>
- Cooke, D. (2002). *Spatial Data: The Foundation of GIS Applications*. <http://www.gis.com/data/gdt1.html>. Date referred: 29th October, 2002.
- DeMers, M.N. (2000). *Fundamentals of GIS*, 2nd edition. New York: John Wiley.
- Forchhammer, S., Jensen, O.R. (2000). Content layer progressive coding of digital maps. *Proceedings of the Data Compression Conference, 2000*. Page(s): 233 -242.
- Forchhammer, S., Salinas, J.M. (2002). Progressive coding of palette images and digital maps. *Proceedings of the Data Compression Conference, 2002*. Page(s): 362-371.
- Franti, P., Ageenko, E. (1999). On the use of context tree for binary image compression. *Proceedings of the International Conference on Image Processing, 1999*. Volume: 3, 1999. Page(s): 752 -756.

Franti, P., Ageenko, E., Kopylov, P., Grohn, S. (2002). Compressing multi-component digital maps using JBIG2. *IEEE International Conference on Acoustics, Speech, and Signal Processing, 2002*. Volume: 3, 2002. Page(s): 2677-2680.

Gilbert, J.M., Brodersen, R.W. (1998). A lossless 2-D image compression technique for synthetic discrete-tone images. *Proceedings of the Data Compression Conference, 1998*. Page(s): 359 -368.

Gonzalez, R.C., Woods, R.E. (1992). *Digital Image Processing*. Reading: Addison-Wesley.

*Graphics Formats Specifications* (undated). [http://meru.cecs.missouri.edu/mvl/\\_iiss/\\_users\\_manual\\_graphics\\_formats.html](http://meru.cecs.missouri.edu/mvl/_iiss/_users_manual_graphics_formats.html). Date referred: 13th March, 2003

Howard, P.G., Vitter J.S. (1992). Analysis of arithmetic coding for data compression. *Information Processing & Management*. Vol. 28, 1992. Page(s): 749-763.

Howard, P.G., Vitter J.S. (1994). Arithmetic Coding for Data Compression. *IEEE Data Compression Conference*. Vol.: 82 Issue: 6. Page(s):857-865.

*JASC Palette File Format* (undated). <http://www.bmts.com/~gdonald/File%20Formats/Jasc%20Palettes.html>. Date referred: 13th March, 2003

JBIG committee (1999). *14492 FCD: Lossy/lossless coding of bi-level images*. JBIG committee. Online copy: <http://www.jpeg.org/fcd14492.pdf>

Jensen, O.R., Forchhammer, S. (1999). Content progressive coding of limited bits/pixel images. *IEEE 3rd Workshop on Multimedia Signal Processing, 1999*. Page(s): 419 -424.

Jong, S. (undated). *JASC Palette (PAL) file format*. <http://qsitesonline.net/lierohh/lierohack/docformats/other-jasc.html>. Date referred: 13th March, 2003

Langdon, G.G., Jr. (1991). Adaptive binary arithmetic coding for multi-media applications. *Digest of Papers. Compcon Spring '91*. Page(s): 354 -357.

Langdon, G., Rissanen, J. (1981). Compression of Black-White Images with Arithmetic Coding. *IEEE Transactions on Communications*. Volume: 29 Issue: 6, Jun 1981. Page(s): 858 -867.

Laterre, U. (1998). *A Manual to Graphic File Formats*. <http://www.why-not.com/articles/formats.htm>. Date referred: 13th March, 2003

Li, X., Tu, S., He, X., Ratcliff, J.J. (2001). Web-based distribution of GIS metropolitan maps. *Proceedings of the Fifth International Conference on Information Visualisation, 2001*. Page(s): 419 -424.

Longley, P.A., Goodchild M.F., Maguire D.J., Rhind, D.W. (2001). *Geographic Information Systems and Science*. New York: John Wiley & Sons.

Martins, B., Forchhammer, S. (1998). Tree coding of bilevel images. *IEEE Transactions on Image Processing*. Volume: 7 Issue: 4, Apr 1998. Page(s): 517 -528.

- Meng X., Fowler, R.H., Ricken, E.R. (1997). Gis2web and its inter-application communications issues. *Proceedings of the Sixth International Conference on Computer Communications and Networks, 1997*. Page(s): 427 -430.
- Mitchell, A. (1999). *The ESRI Guide to GIS analysis- Geographic patterns and relationships*. New York: Environmental Systems Research Institute.
- Moffat, A. (1990). Implementing the PPM data compression scheme. *IEEE Transactions on Communications*. Vol.: 38 Issue: 11, Nov 1990. Page(s): 1917-1921.
- Moffat, A., Neal R.M., Witten I.H. (1998). Arithmetic coding revisited. *ACM Transactions on Information Systems*. Vol.: 16, Issue: 3, July 1998. Pages: 256 - 294
- Rabbani, M., Melnychuck, P.W. (1992). Conditioning contexts for the arithmetic coding of bit planes. *IEEE Transactions on Signal Processing*. Volume: 40 Issue: 1, Jan 1992. Page(s): 232 -236.
- Ratnakar, V. (1998). RAPP: lossless image compression with runs of adaptive pixel patterns. *Conference Record of the Thirty-Second Asilomar Conference on Signals, Systems & Computers, 1998*. Volume: 2, 1-4 Nov 1998. Page(s): 1251 -1255.
- Rauschenbach, U. (2000). Compression of Palettized Images with Progressive Coding of the Color Information, *Proc. SPIE Symposium on Visual Communications and Image Processing 2000*. Perth, Australia. Vol.: 4067, 2000. Page(s): 586-597.
- Rissanen, J., Langdon, G., Jr. (1981). Universal modeling and coding. *IEEE Transactions on Information Theory*. Volume: 27 Issue: 1, Jan 1981. Page(s): 12 -23.
- Salomon, D. (2000). *Data Compression: the Complete Reference*, 2nd ed. New York: Springer-Verlag.
- Santa-Cruz, D., Ebrahimi, T., Askelöf, J., Larsson, M., & Christopoulos, C.A. (2000). JPEG2000 Still image coding versus other standards. *Proc. SPIE Applications of Digital Image Processing XXIII*. Vol.: 4115, 2000. Page(s): 446-454.
- Sayood, K (2000). *Introduction to Data Compression*, 2nd ed. San Francisco: Morgan-Kauffman.
- Soomro, T.R., Zheng, K., Pan, Y. (1999). HTML and multimedia Web GIS. *Proceedings of the Third International Conference on Computational Intelligence and Multimedia Applications, 1999*. Page(s): 371 -382.
- Soyjaudah, K.M.S., Ramsamy, S. (2001). A comparative study of context free models of arithmetic coding. *International Conference on Trends in Communications. EUROCO'2001*. Volume: 2, 2001. Page(s): 428 -431.
- Stallings, W. (2002). *High-speed Networks and Internets*, 2nd ed. New Jersey: Prentice-Hall.
- Stojanovic, A., Stoimenov, L., Dimitrijevic, A., Djordjevic-Kajan, S. (2000). GiniWeb - the tool for GIS applications development based on Web. *10th Mediterranean Electrotechnical Conference, MELECON, 2000*. Volume: 1, 2000. Page(s): 331 -333.

Subramanya, A. (2001). Image compression techniques. *IEEE Potentials*, Volume: 20 Issue: 1, Feb/Mar 2001. Page(s): 19 -23.

*The GIS Glossary- E-H* (2002). [http://www.esri.com/library/glossary/e\\_h.html](http://www.esri.com/library/glossary/e_h.html). Date referred: 29th October, 2002.

*The GIS Glossary- Q-S* (2002). [http://www.esri.com/library/glossary/q\\_s.html](http://www.esri.com/library/glossary/q_s.html). Date referred: 29th October, 2002.

Wei, Z.K., Oh, Y.H., Lee, J.D., Kim, J.H., Park D.S., Lee Y.G., Bae, H.Y. (1999). Efficient Spatial Data Transmission in Web-Based GIS. *Proceedings of WIDM 99*. Kansas City, MO USA.

Withers, D. (2001). A Rapid Probability Estimator and Binary Arithmetic Coder. *IEEE Transactions on Information Theory*. Volume: 47 Issue: 4, May 2001. Page(s): 1533 - 1536.

Witten, I.H. & Bell, T.C. (1991). The zero-frequency problem: estimating the probabilities of novel events in adaptive text compression. *IEEE Transactions on Information Theory*. Volume: 37 Issue: 4, 1991. Page(s): 1085-1094.

Witten, I.H., Neal, R.M., Cleary, J.G. (1987). Arithmetic coding for data compression. *Communications of the ACM*. Volume 30, Issue 6, June 1987. Pages: 520 – 540.

Ye, Q., Xu R., Ma, X., Liu, Y. (2001). The application of Web technology to geographic information system. *Proceedings of the International Conference on Info-tech and Info-net, 2001*. Beijing. Volume: 1, 2001, Page(s): 267 -272.

Yoo Y., Kwon Y., Ortega, A. (1998). Embedded image-domain adaptive compression of simple images. *Conference Record of the Thirty-Second Asilomar Conference on Signals, Systems & Computers, 1998*. Volume: 2, 1-4 Nov 1998. Page(s): 1256 -1260.

Yoo Y., Kwon Y., Ortega, A. (1999). Embedded image-domain compression using context models. *Proceedings of the 1999 International Conference on Image Processing, 1999*. Volume: 1, Dec 1999. Page(s): 477 -481.