

Publication List of Prof. King N. Ngan

A. Authored Books

1. K.N. Ngan, T. Meier and D. Chai, *Advanced Video Coding: Principles and Techniques*, Elsevier Science Publishers B.V., ISBN 0-444-82667-X, August 1999, 430 pages.
2. K.N. Ngan, C.W. Yap and K.T. Tan, *Video Coding for Future Generation Mobile Communication Systems*, Marcel Dekker Inc., ISBN 0-8247-0489-4, January 2001, 560 pages.
3. W.J. Heng and K.N. Ngan, *Digital Video Transition Analysis and Detection*, World Scientific Publishing Co. Pte. Ltd., ISBN 981-238-185-6, November 2002, 200 pages.

B. Edited Books

1. K.N. Ngan and I. Shirakawa, *Proceedings of IEEE International Symposium on Circuits and Systems*, Singapore, ISBN 0-7803-0050-5, June 1991, 3177 pages.
2. K.N. Ngan, *Proceedings of IEEE Workshop on Visual Signal Processing and Communications*, Melbourne, Australia, ISBN 0-7326-0512-1, September 1993, 347 pages.
3. K.N. Ngan, *Proceedings of IEEE Region 10 Conference (TENCON'96)*, Perth, Australia, ISBN 0-7803-3679-8, November 1996, 966 pages.
4. H.R. Wu, K.N. Ngan, B. Qiu and S. Suthaharan, *Proceedings of IEEE International Workshop on Intelligent Signal Processing and Communication Systems*, Melbourne, Australia, ISBN 0-7803-9948-X, November 1998, 953 pages.
5. K.N. Ngan, T. Sikora and M.T. Sun, *Proceedings of SPIE International Conference on Visual Communications and Image Processing*, Perth, Australia, ISSN 0277-786X, ISBN 0-8194-3703-4, vol. 4067, June 2000, 1684 pages.
6. K.N. Ngan and H. Li (Eds.), *Video Segmentation and Its Applications*, Springer, ISBN 978-1-4419-9481-3, May 2011, 164 pages.
7. 颜庆义(作者), 李宏亮(作者), 郑丽颖(译者), *视频分割及其应用*, 国防工业出版社, Chinese ISBN 978-7-118-09216-5, April 2014, 160 pages.
8. C. Deng, L. Ma, W. Lin and K.N. Ngan (Eds.), *Visual Signal Quality Assessment - Quality of Experience*, Springer, ISBN 978-3-319-10367-9, November 2014, 303 pages.

C. Book Chapters

1. K.N. Ngan and C.W. Yap, "Combined Source-Channel Video Coding," in *Signal Recovery Techniques for Image and Video Compression and Transmission*, Kluwer Academic Publisher, ISBN 0-7923-8298-6, October 1998, pp. 269-297.
2. J. Dong and K.N. Ngan, "Present and Future Video Coding Standards," in *Intelligent Multimedia Communication: Techniques and Applications*, Springer, ISBN 978-3-642-11685-8, January 2010, pp. 75-124.
3. S. Li, C.M. Mak and K.N. Ngan, "Visual Quality Evaluation for Images and Videos," in *Multimedia Analysis, Processing and Communication*, Springer, ISBN 978-3-642-19550-1, November 2010, pp. 497-544.
4. H. Li and K.N. Ngan, "Image/Video Segmentation: Current Status, Trends, and Challenges," in *Video Segmentation and Its Applications*, Springer, ISBN 978-1-4419-9481-3, January 2011, pp. 1-23.

5. Q. Zhang and K.N. Ngan, "Multiview Image Segmentation and Video Tracking," in *Video Segmentation and Its Applications*, Springer, ISBN 978-1-4419-9481-3, January 2011, pp. 117-143.
6. L. Ma, C. Deng, W. Lin, K.N. Ngan and L. Xu, "Retargeted Image Quality Assessment: Current Progresses and Future Trends," in *Visual Signal Quality Assessment - Quality of Experience*, Springer, ISBN 978-3-319-10367-9, November 2014, pp. 213-242.

D. Refereed Journal Papers

1. R. Steele, K.N. Ngan and D.J. Goodman, "Adaptive difference detection and correction system for partial correction of transmission errors in linear PCM," *Electronics Letters*, U.K., vol. 14, no. 12, 1978, pp. 381-382.
2. K.N. Ngan and R. Steele, "Enhancement of PCM and DPCM images corrupted by transmission errors," *IEEE Transactions on Communications*, U.S.A., vol. 30, no. 1, January 1982, pp. 257-264.
3. K.N. Ngan, "Adaptive transform coding of video signals," *IEE Proceedings-F*, U.K., vol. 129, no. 1, February 1982, pp. 28-40.
4. K.N. Ngan, "Image display techniques using the cosine transform," *IEEE Transactions on Acoustics, Speech and Signal Processing*, U.S.A., vol. 32, no. 1, February 1984, pp. 173-177.
5. K.N. Ngan, "Hierarchical transmission of multi-level images for videotex systems," *Displays*, U.K., vol. 5, no. 2, April 1984, pp. 84-88.
6. K.N. Ngan, W.C. Hui and S.C. Lim, "Picture transmission for videotex," *IEEE Transactions on Consumer Electronics*, U.S.A., vol. 31, no. 3, August 1985, pp. 301-310.
7. K.N. Ngan and K.S. Leong, "Fast convergence method for Lloyd-Max quantiser design," *Electronics Letters*, U.K., vol. 22, no. 16, July 1986, pp. 844-846.
8. K.N. Ngan, "Experiments on two-dimensional decimation in time and orthogonal transform domain," *Signal Processing*, The Netherlands, vol. 11, no. 3, October 1986, pp. 249-263.
9. K.N. Ngan and H. Singh, "Robotic vision system for automatic identification and sorting of parts," *Engineering Journal of Singapore*, Singapore, vol. 13, no. 1, 1986, pp. 17-25.
10. K.N. Ngan, A.A. Kassim and H. Singh, "A parallel image processing system based on the TMS32010 digital signal processor," *IEE Proceedings-E*, U.K., vol. 134, no. 2, March 1987, pp. 119-124.
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12. K.N. Ngan and S.B. Kang, "Geometric modelling of IC die bonds for inspection," *Pattern Recognition Letters*, The Netherlands, vol. 10, no. 1, July 1989, pp. 47-52.
13. K.N. Ngan, K.S. Leong and H. Singh, "Adaptive discrete cosine transform coding in perceptual domain," *IEEE Transactions on Acoustics, Speech and Signal Processing*, U.S.A., vol. 37, no. 11, November 1989, pp. 1743-1750.
14. K.N. Ngan and B.Y.K. Aw, "Morphologic edge detector," *Ngee Ann Polytechnic Journal*, Singapore, vol. 4, October 1990, pp. 33-38.
15. K.C. Chua, W.C. Wong and K.N. Ngan, "Error detection and correction of vector quantised digital images," *IEE Proceedings-I*, U.K., vol. 137, no. 6, December 1990, pp. 417-423.

16. (Invited paper) K.N. Ngan, H.C. Koh and W.C. Wong, "A hybrid image coding scheme incorporating human visual system characteristic," *Optical Engineering*, U.S.A., vol. 30, no. 7, July 1991, pp. 940-946.
17. K.N. Ngan, D.W. Lin and M.L. Liou, "Enhancement of image quality for low bit rate video coding," *IEEE Transactions on Circuits and Systems*, U.S.A., vol. 38, no. 10, October 1991, pp. 1221-1225.
18. K.N. Ngan and H.C. Koh, "Predictive classified vector quantization," *IEEE Transactions on Image Processing*, U.S.A., vol. 1, no. 3, July 1992, pp. 269-280.
19. K.N. Ngan and Sing B. Kang, "3-D object recognition using fuzzy quaternions," *IEE Proceedings-I*, U.K., vol. 139, no. 6, December 1992, pp. 561-568.
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¹ Fourth most cited paper in *IEEE Transactions on Circuits and Systems for Video Technology* in 1998.

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