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# Publications

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## Articles:

- Chapter 4: L. M. J. Florack and A. Kuijper. The topological structure of scale-space images. *Journal of Mathematical Imaging and Vision*, 12(1):65–80, February 2000, combined with [154].
- Chapter 5: A. Kuijper, L. M. J. Florack, and M. A. Viergever. Scale space hierarchy. *Journal of Mathematical Imaging and Vision*, accepted, 2001.
- Chapter 6: A. Kuijper and L. M. J. Florack. The application of catastrophe theory to image analysis. Submitted, 2001.
- Chapter 7: A. Kuijper and L. M. J. Florack. The relevance of non-generic events in scale space models. Submitted, 2001.
- Chapter 8: A. Kuijper and L. M. J. Florack. Logical filtering in scale space. Submitted, 2002.

## Proceedings:

- J. Bijhold, A. Kuijper, and J.-H. Westhuis. Comparative study of image restoration techniques in forensic image processing. In *SPIE Proceedings Vol. 2942, Leonid I. Rudin, Simon K. Bramble (Eds.): Investigative Image Processing (Boston, MA, USA, 1996)*, pages 10–21, 1997.
- A. Kuijper and L. M. J. Florack. Calculations on critical points under gaussian blurring. In *M. Nielsen, P. Johansen, O. Fogh Olsen, and J. Weickert (Eds.): Proceedings of the second International Conference on Scale-Space Theories in Computer Vision (Corfu, Greece, September 1999). Lecture Notes in Computer Science, volume 1682. Springer -Verlag, Berlin Heidelberg*, pages 318–329, 1999.

- A. Kuijper and L. M. J. Florack. Hierarchical pre-segmentation without prior knowledge. In *Proceedings of the 8th International Conference on Computer Vision (Vancouver, Canada, July 9–12, 2001)*, pages 487–493, 2001.
- A. Kuijper and L. M. J. Florack. Understanding and modeling the evolution of critical points under Gaussian blurring. In A. Heyden, G. Sparr, M. Nielsen, and P. Johansen (Eds.): *Proceedings of the 7th European Conference on Computer Vision, Part I (Copenhagen, Denmark, May 28–31, 2002)*. *Lecture Notes in Computer Science, volume 2350*, Springer - Verlag, Berlin Heidelberg, pages 143–157, 2002.
- A. Kuijper and L. M. J. Florack. The relevance of non-generic events in scale space models. In A. Heyden, G. Sparr, M. Nielsen, and P. Johansen (Eds.): *Proceedings of the 7th European Conference on Computer Vision, Part I (Copenhagen, Denmark, May 28–31, 2002)*. *Lecture Notes in Computer Science, volume 2350*, Springer - Verlag, Berlin Heidelberg, pages 190–204, 2002.

### Technical reports:

- L. M. J. Florack and A. Kuijper. The topological structure of scale-space images. Technical Report UU-CS-1998-31, Utrecht University, 1998.
- L. M. J. Florack and A. Kuijper. On the behaviour of critical points under Gaussian blurring. Technical Report UU-CS-1998-34, Utrecht University, 1998.
- A. Kuijper and L. M. J. Florack. Calculations on critical points under gaussian blurring. Technical Report UU-CS-1999-12, Department of Computer Science, Utrecht University, 1999.
- A. Kuijper and L. M. J. Florack. Hierarchical pre-segmentation without prior knowledge. Technical Report UU-CS-2001-17, Department of Computer Science, Utrecht University, 2001.
- A. Kuijper, L. M. J. Florack, and M. A. Viergever. Scale space hierarchy. Technical Report UU-CS-2001-19, Department of Computer Science, Utrecht University, 2001.
- A. Kuijper and L. M. J. Florack. The application of catastrophe theory to image analysis. Technical Report UU-CS-2001-23, Department of Computer Science, Utrecht University, 2001.
- A. Kuijper and L. M. J. Florack. The application of catastrophe theory to medical image analysis. Technical Report UU-CS-2001-24, Department of Computer Science, Utrecht University, 2001.
- A. Kuijper and L. M. J. Florack. On the creations of critical points in scale space with application to medical image analysis. Technical Report UU-CS-2001-25, Department of Computer Science, Utrecht University, 2001.
- A. Kuijper and L. M. J. Florack. The relevance of non-generic events in scale space models. Technical Report UU-CS-2001-55, Department of Computer Science, Utrecht University, 2001.
- A. Kuijper and L. M. J. Florack. Logical filtering in scale space. Technical Report UU-CS-2002-018, Department of Computer Science, Utrecht University, 2002.