

# Publications of Kim Steenstrup Pedersen

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## Ph.D. thesis:

- **Kim S. Pedersen**. Statistics of Natural Image Geometry. Ph.D. Thesis, Department of Computer Science, University of Copenhagen, Denmark, January 2003. Published as DIKU tech. report no. 2003/04.

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- J. Rasmussen, J. Nielsen, J. C. Streibig, J. E. Jensen, **K. S. Pedersen**, S. I. Olsen. Pre-harvest weed mapping of *Cirsium arvense* in wheat and barley with off-the-shelf UAVs. *Precision Agriculture*, pp. 1 – 17, 2019. BFI: 1, JIF: 4,454.
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- Ann B. Lee, **Kim S. Pedersen** and David Mumford. The Nonlinear Statistics of High-Contrast Patches in Natural Images. In *International Journal of Computer Vision*, 54 (1 / 2): 83-103, August / September 2003.
- **Kim S. Pedersen** and Mads Nielsen: The Hausdorff Dimension and Scale-Space Normalisation of Natural Images. In *Journal of Visual Communication and Image Representation*, 11(2):266–277, 2000.

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- Wouter M. Kouw, Silas N. Ørting, Jens Petersen **Kim S. Pedersen**, and Marleen de Bruijne. A Cross-Center Smoothness Prior for Variational Bayesian Brain Tissue Segmentation. In Proceedings of International Conference on Information Processing in Medical Imaging — IPMI 2019: Information Processing in Medical Imaging. Springer, LNCS 11492, pp. 360–371, 2019.
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- **Kim S. Pedersen**: Properties of Brownian Image Models in Scale-Space. In *Scale Space Methods in Computer Vision: Proceedings of the 4th Scale-Space conference*, Isle of Skye, Scotland. LNCS 2695, p. 281-296, Springer-Verlag, June 2003.
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- Rasmus Reinhold Paulsen, **Kim Steenstrup Pedersen** (Eds.). Image analysis : 19th Scandinavian Conference, SCIA 2015, Copenhagen, Denmark, June 15-17, 2015. Proceedings. Springer, 2015.
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## Technical Reports: (6)

- J. Rasmussen, J. Nielsen, J. C. Streibig, S. I. Olsen, **K. S. Pedersen**, and J. E. Jensen: Droner til monitoring af flerårigt ukrudt i korn. Miljøstyrelsen, 2016.
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- **Kim S. Pedersen** and Ann B. Lee: Toward a Full Probability Model of Edges in Natural Images. *APPTS Report #02-1*, Division of Applied Mathematics Technical Reports on Applied Probability, Pattern Theory, and Statistics, Brown University, USA. January 2002.
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