

▶ Dan Witzner Hansen

DATE OF BIRTH: 10. November, 1972

NATIONALITY: Danish

BIRTH PLACE: Rønne, Denmark

FAMILY STATUS: Married, 2 children

(Born 1999 & 2004)

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Ølstykke, Denmark

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Education and employment

Associate professor

(Sep 2008-Present)

- ▶ IT University of Copenhagen (ITU), Copenhagen, Denmark

Joint assistant professor

(Sep 2007-Sep2008)

- ▶ IT University of Copenhagen (ITU) and Institute of Mathematical Modelling, Technical University of Denmark (DTU), Copenhagen, Denmark

Assistant Professor

(Sep 2006- Sep 2007)

- ▶ Institute of Mathematical Modelling, Technical University of Denmark (DTU), Copenhagen, Denmark

Assistant professor

(July 2003- Sep 2006)

- ▶ IT University of Copenhagen (ITU)

Ph.D.

(July 2000- June 2003)

- ▶ IT University, Copenhagen
- ▶ Visiting researcher Cavendish Laboratories, Cambridge University (May 2002-August 2002)

Employee

(Sep 1999-July 2000)

- ▶ Systematic Software Engineering

Visiting student

(Jan 1998- Sep 1998)

- ▶ University of Sussex, Falmer, UK

M.Sc.

(Sep 1993-Jun 1999)

- ▶ Computer Science and Mathematics University of Århus

Student supervisions

- ▶ 4 Phd students (2 co-supervisions)
- ▶ 50 Master students
- ▶ >150 Bachelor & smaller projects

Publication summary

- ▶ Patents: 2
- ▶ Book editor: 1
- ▶ Journal publications: 9
- ▶ Book chapters: 8
- ▶ Conference papers: 29

Funded Projects & Awards

- ▶ Best paper award Mardanbegi, Diako, Hansen, Dan Witzner and Pederson, Thomas. (2012) Eye-based head gestures. Proceedings of the Symposium on Eye Tracking Research and Applications.
- ▶ Cross-cultural explorations of mobile gaze interaction for everyday aging, 2011, International netværksbevilling nr 2010-545-0037,2011, DKR 351.041
- ▶ Project leader within DANVIFO (2006-2009), Fundet by the Danish Ministry of Research and Innovation, DKR 851.000
- ▶ Co-organization of COGAIN (board assitant/WP5): Communication by Gaze interaction conducted within the 6 EU framework programme FP6 (2004-2005). €199.213 with a total budget of 2.931.263

Patents

- ▶ Eye Gaze Tracking. Hansen, D.W. Patent no WO2010003410 (A1), January 2010.
 - ▶ Method of Determining Reflections of Light. - PCT/EP2010/066495
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Selected Publications

- ▶ Hansen, D. W., & Ji, Q. (2010). In the eye of the beholder: A survey of models for eyes and gaze. IEEE Transactions on Pattern Analysis and Machine Intelligence , 32(3): 478–500.
- ▶ Hansen, D. W., Hammoud, R.I. (2007). An Improved Likelihood Model for Eye Tracking, In: Computer Vision and Image Understanding, No. Vol 106, No 2 pages 220-230.
- ▶ Hansen, D. W., & Pece, A. E. (2005). Eye tracking in the wild. Computer Vision and Image Understanding , 98(1):155–181.
- ▶ Mardanbegi, Diako, Hansen, Dan Witzner and Pederson, Thomas. (2012) Eye-based head gestures. Proceedings of the Symposium on Eye Tracking Research and Applications. **Best paper award**
- ▶ Hansen, D.W., San Agustin, J., and Villanueva, A. (2010). Homography normalization for robust gaze estimation in uncalibrated setups, ETRA '10: Proceedings of the 2010 Symposium on Eye-Tracking Research

& Applications.

- ▶ San Agustin, J., Jensen, H.T.S.H., Møllenbach, E., Barret, M., Hansen, D.W., and Hansen, J.P. (2010). Evaluation of a low-cost open-source gaze tracker, Proceedings of the 2010 Symposium on Eye-Tracking Research & Applications
- ▶ Hansen, D.W., Jensen, H., Hansen, J.P., and Møllenbach, E. (2008). *Noise Tolerant Selection by Gaze-Controlled Pan and Zoom in 3D*, Eye Tracking Research & Applications (ETRA).
- ▶ Hansen, D.W., Pece, A. (2004). *Eye Typing of The Shelf*, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), pp. 159-164.
- ▶ Hansen, D.W., Hansen, J.P., Nielsen, M., Johansen, A.S., and Stegmann, M.B. (2003). *Eye Typing using Markov and Active Appearance Models*, IEEE Conference on Applications on Computer Vision, pp. 132-136.
- ▶ Hansen, D.W., Hansen, J.P., Johansen, A.S., Nielsen, M., and Stegmann, M.B. (2002). *Tracking Eyes using Shape and Appearance*, IAPR Workshop on Machine Vision Applications, pp. 201-204.
- Hansen, D.W. (2006). Using Colors for Eye Tracking, In: Rastislav Lukac & Konstantinos N. Plataniotis (ed.) *Color Image Processing: Emerging Applications*., pp. 309-327. CRC Press.

Selected Program and Standardization Committees

- ▶ International standardization committee for data quality in eye movement research.
- ▶ Eye Tracking Research and Application Conference (ETRA), 2004, 2006, 2008,2010,2012
- ▶ Workshop on Pervasive Eye Tracking and Mobile-based Interaction, 2011, 2012
- ▶ Workshop on Time of Flight Camera based Computer Vision (TOF-CV) , In association with CVPR 08
- ▶ IEEE International Workshop on Performance Evaluation of Tracking and Surveillance, 2006, 2007
- ▶ International Workshop on Visual Surveillance
- ▶ International Conference on Computer Vision Theory and Applications (VISAPP), 2006, 2007, 2008
- ▶ Co-organizer of Symposium on Geometry Processing, 2008
- ▶ COGAIN Conference
- ▶ International Conference on Pattern Recognition

Journal and Major Conference Reviewer, Committees

- ▶ International Journal of Computer Vision (IJCV)
- ▶ Pattern Recognition and Machine Intelligence (PAMI)
- ▶ Computer Vision and Image Understanding (CVIU)
- ▶ IET Computer Vision Journal
- ▶ International Conference of Computer Vision (ICCV)
- ▶ European Conference on Computer Vision (ECCV)
- ▶ Computer Vision and Pattern Recognition (CVPR)
- ▶ Eye Tracking Research and Application Conference (ETRA)