

Curriculum Vitae for Bill Christmas

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Personal Details

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Date of birth: 25th January 1950
Marital status: married
Nationality: British



Professional qualifications: Member of the Institution of Electrical Engineers, Chartered Engineer

Current position: University Research Fellow in Technology Transfer, Centre for Vision, Speech and Signal Processing, University of Surrey

University of Surrey: 1992 onwards

My position is University Research Fellow in Technology Transfer, in the Centre for Vision, Speech and Signal Processing at the University of Surrey. As well as supervision of postgraduate students on a range of projects related to 2D and 3D face analysis, I assist with the transfer of technology to industrial partners. In connection with this, I manage the development of the RAVL C++ library for computer vision and pattern recognition. I also provide support for the users of the Centre's computing facilities - acting as a link between the users and the system management.

Past research projects include:

- I-Dash: Investigator's Dashboard
- PoBI: People of the British Isles
- ACASVA: Adaptive Cognition for Automated Sports Video Annotation
- VAMPIRE: Visual Active Memory Processes and Interactive REtrieval
- ASSAVID: Automatic Segmentation and Semantic Annotation of Sports Videos
- The use of probabilistic reasoning to develop a methodology for solving matching problems in computer vision. This was the subject of my PhD.

Previous employment

- 1986 – 1992: Senior Research Engineer, BP International Research Centre
- 1972 – 1986: Research Engineer, BBC Research & Development Department

Computer skills

I have extensive experience in programming in C++, particularly in a Unix environment. I also have experience in the use of C, Python, Assembler, Fortran, Occam, Pascal and others, under several real-time operating systems.

Education

1995: Ph.D. in Computer Vision, from the Department of Electronic and Electrical Engineering, University of Surrey. My thesis was on the matching of geometric features using probabilistic methods.

1991: M.Sc. with distinction in Signal Processing and Machine Intelligence, University of Surrey

1972: 1st class honours in Engineering Science Finals, Oxford University; Egdell-Sheppey and I.E.E. prizes for performance in finals; Metal Box prize for performance in Moderations

Recent publications

- [1] Z Feng, P Huber, J Kittler, W Christmas, and X Wu. Random cascaded-regression copse for robust facial landmark detection. *IEEE Signal Processing Letters*, 22(1):76–80, January 2015. pdf.
- [2] Z Feng, J Kittler, W Christmas, and X Wu. Feature level multiple model fusion using multilinear subspace analysis with incomplete training set and its application to face image analysis. In *MCS*, 73–84, 2013. pdf.
- [3] C Chan, B Goswami, J Kittler, and W Christmas. Local ordinal contrast pattern histograms for spatiotemporal, lip-based speaker authentication. *IEEE T-IFS*, 7(2):602–612, April 2012. pdf.
- [4] G Hu, P Mortazavian, J Kittler, and W Christmas. A facial symmetry prior for improved illumination fitting of 3D morphable model. In *ICB*, 2013. pdf.
- [5] P Mortazavian, J Kittler, and W Christmas. 3D morphable model fitting for low-resolution facial images. In *ICB*, 2012. pdf.
- [6] P Koppen, C Chan, W Christmas, and J Kittler. An intrinsic coordinate system for 3D face. In *ICPR 2012*, 2740–2743, Nov 2012. pdf.
- [7] Z Feng, J Kittler, W Christmas, X Wu, and S Pfeiffer. Automatic face annotation by multilinear AAM with missing values In *ICPR*, 2012. pdf.
- [8] G Hu, C Chan, J Kittler, and B Christmas. Resolution-aware 3D morphable model. In *BMVC*, 109.1–109.10. BMVA Press, 2012. pdf.

All publications: <http://www.ee.surrey.ac.uk/Personal/W.Christmas/list.pdf>