

# Susannah Fleming

## Publications

S.A. Shah, S. Fleming, C. Orphanidou and L. Tarassenko. *Continuous measurement of respiration rate using the photoplethysmogram and the electrocardiogram*. The 5th UK & RI Postgraduate Conference in Biomedical Engineering and Medical Physics, July 2009; 11-12.

S. Fleming, L. Tarassenko, M. Thompson and D. Mant. *Data fusion for identification of serious illness in children*. CM2009. The Sixth International Conference on Condition Monitoring and Machinery Failure Prevention Technologies, June 2009; 138.

S. Fleming, L. Tarassenko, M. Thompson and D. Mant. *Non-invasive Measurement of Respiratory Rate in Children Using the Photoplethysmogram*. EMBS 2008. 30th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, August 2008; 1886-1889

S.G. Fleming and L. Tarassenko. *A Comparison of Signal Processing Techniques for the Extraction of Breathing Rate from the Photoplethysmogram*. Proceedings of World Academy of Science Engineering and Technology, October 2007; 24:276-280. Also republished in International Journal of Biomedical Sciences, 2007; 2(4):232-236.

METHOD AND APPARATUS FOR MEASURING BREATHING RATE, L. Tarassenko and S. Fleming. (pending)

METHOD AND APPARATUS FOR MEASURING BREATHING RATE, L. Tarassenko and S. Fleming. International Patent Application No. PCT/GB2008/002043. Filed 13 June 2008

S. Fleming, J.H. Stott and J.E. Salter. *The effects of power-line telecommunications on broadcast reception: second trial in Crieff*. BBC R&D White Paper WHP116. June 2005.

## Employment History

Postdoctoral Research Assistant, University of Oxford	2009 – present
Graduate Research Student (DPhil), University of Oxford	2005 – present
Demonstrator, Department of Engineering, University of Oxford	2007 – present
Board Member, NHS HealthSpace project	2006 – present
IT Consultant, Oxford BioSignals	2007 – 2008
Board Member, NHS Care Record Development Board	2004 – 2006
Research & Development Engineer, BBC R&D	2002 – 2005
Board Member, NHS Public Advisory Board	2003 – 2004

## Professional Qualifications and Awards

MEng in Engineering Science, 1st class honours, Oxford University	1998-2002
Member of the Institution of Engineering and Technology (formerly IEE)	2002
Associate of Higher Education Academy	2008
Royal Academy of Engineering Research Student Development Fellowship	2008
IET William James Award	2008
British Science Association "Perspectives" Competition Finalist	2009

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