

# 2013 BME Publications, Conferences, Book chapters and Patents

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N. Subanna, **D.L. Collins**, D. Precup and T. Arbel. "Hierarchical Probabilistic Gabor and MRF Segmentation of Brain Tumours in MRI" MICCAI 2013

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Ranjbaran M., K. Jalaeddini, D. Guarin Lopez, R.E. Kearney and **H.L. Galiana**, Analysis and Modelling of noise in biomedical systems, Proc. 35<sup>th</sup> Ann. Intern. Conference of the IEEE EMBS, Osaka, Japan, Jul 3-7, 2013, 5630-5633.

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Ranjbaran M and **H.L. Galiana**, Modelling the VOR with bilateral non-linear cells for context dependence, *Intern. Symposium on Sensing Motion for Action: A tribute to the career of Geoffrey Melvill Jones*, July 13<sup>th</sup> & 14<sup>th</sup> 2013, Montreal, Canada

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V. Laforte, A. Olanrewaju, **D. Juncker**. Low-cost, High Liquid Volume Silicon Quill Pins for Robust and Reproducible Printing of Antibody Microarrays. *The 17th International Conference on Miniaturized Systems for Chemistry and Life Science - MicroTAS 2013*, October 27-31th, 2013, Freiburg, Germany.

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P. Decorwin-Martin and **D. Juncker**. Manipulating liquid plugs with textured thread, Gordon Research Conference, June 8-14, 2013, Barga, Italy.

A. Mallik, M. A. Qasaimeh, and **D. Juncker**. Transparent Microfluidic Probes (MFPs) for Upright Microscopes. *Advances in Micro and Nanofluidics*. May 24-26, 2013, Notre Dame, USA.

H. Li, S. Bergeron, **D. Juncker**. Cross-reactivity-free dual snap chip assay for the profiling of multiple proteins during the growth of breast cancer, 7th International Symposium on Enabling Technologies for Life Science, April 30th-May 1st, 2013, Toronto, Canada.

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K. Turner, A. Tamayol, A. Rafiqi, L. Nilson, E. Abouheif, and **D. Juncker**. Arraying *D. melanogaster* embryos by template-assisted self-assembly and suction positioning. 7th International Conference on Microtechnologies in Medicine and Biology, April 10–12th 2013, Marina Del Rey, CA, USA.

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## **Patents**

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## **Kearney, Robert E**

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H Kazemi, **RE Kearney**, TE Milner Virtual Rehabilitation (ICVR) (2013), International Conference on, 196-197 (2013) Using a robotic interface and haptic feedback to improve grip coordination of hand function following stroke—Case study

K Jalaalddini, **RE Kearney**, Engineering in Medicine and Biology Society (EMBC), 2013 35th Annual International Conference of the IEEE (2013) Subspace method decomposition and identification of the parallel-cascade model of ankle joint stiffness: Theory and simulation

E Sobhani Tehrani, K Jalaalddini, **RE Kearney**, Engineering in Medicine and Biology Society (EMBC), 2013 35th Annual International Conference of the IEEE (2013) A novel algorithm for linear parameter varying identification of Hammerstein systems with time-varying nonlinearities

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M Ranjbaran, K Jalaaliddini, DG Lopez, **RE Kearney**, HL Galiana, Engineering in Medicine and Biology Society (EMBC), 2013 35th Annual International Conference of the IEEE (2013) Analysis and modeling of noise in biomedical systems

CA Robles-Rubio, KA Brown, **RE Kearney**, Engineering in Medicine and Biology Society (EMBC), 2013 35th Annual International Conference of the IEEE (2013) A new movement artifact detector for photoplethysmographic signals

H Kazemi, **RE Kearney**, T Milner, Rehabilitation Robotics (ICORR), IEEE International Conference on, 1-6 (2013) Characterizing coordination of grasp and twist in hand function of healthy and post-stroke subjects

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## **Patents**

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## **Pike, Bruce**

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