

CARE: Publications

16-06-08

1. Research Publications

International Peer Reviewed Scientific Journals

Naemi, R. and Sanders, R. H., (2008). A 'hydro-kinematic' method of measuring glide efficiency of a human swimmer. *Journal of Biomechanical Engineering*. Accepted.

Psycharakis S. G. and Sanders R.H., 2008. Shoulder and hip roll changes during 200m front crawl swimming. *Medicine & Science in Sports & Exercise*. (In press, to be published in the December 2008 issue).

Psycharakis S. G. and Sanders R.H. (2008). Validity of the use of a fixed point for intra-cycle velocity calculations in swimming. *Journal of Science & Medicine in Sport*. (In press, Published online at 5 March 2008. doi:10.1016/j.jsams.2007.11.008).

Sanders, R.H. (2007). Kinematics, Coordination, Variability, and Noise in the Prone Flutter Kick at different levels of a 'learn-to-swim' programme, *Journal of Sports Science*, 25(2):213-27.

Book Chapters

Sanders R, Psycharakis S G, Naemi R, McCabe C, & Machtsiras G, (2008). Swimming. In Y. Hong and R. Bartlett (Eds.) Routledge *Handbook of Biomechanics and Human Movement Science*. Taylor & Francis Editors. Pp: 323-339.

Keynote and Invited Lectures

Sanders, R.H. (2008). Deriving Three-Dimensional Forces and Torques in Swimming. Sciences. 13th Annual Congress of the European College of Sport Sciences. Estoril, Portugal, 9-12 July 2008. Invited lecture.

Sanders, R.H. (2008). Skilled movement represented as low frequency travelling sinusoidal waves. Functional, Algorithmic and Implementation Aspects of Motor Control and Learning. Liverpool Hope University, May 15-16, 2008. Invited lecture.

Sanders, R.H. (2008). The role of three-dimensional analysis in enhancing performance in swimming. 16th FINA World Sports Medicine Congress, Manchester 7-8th April 2008. Invited lecture.

Sanders, R.H. and Naemi, R. (2008). Swimming science and technology at the Centre for Aquatics Research and Education. International Sports Engineering Conference. Tehran. February 14, 2008. Invited Lecture.

Sanders, R.H. (2007). Rock and roll rhythms in swimming. Geoffrey Dyson Lecture. International Symposium on Biomechanics in Sports. Ouro Preto, Brazil, August, 2007. <http://w4.ub.uni-konstanz.de/cpa/issue/current>. Keynote address.

Conference Proceedings

Shahbazi, M.M., and Sanders, R.H. (2008). A new mathematical simulation to study flip turn characteristics in front crawl swimming. In Y.H. Kwon (ed.) *Proceedings of the XXVI International Symposium on Biomechanics in Sports*. Seoul, Korea.

Psycharakis S. G. and Sanders R., 2008. Three-dimensional analysis of intracycle velocity fluctuations in front crawl swimming. *Proceedings of the 13th Annual Congress of the European College of Sport Sciences*. Estoril, Portugal. (In press)

Naemi, R., Sanders, R.H., Aritan, S., Haake, S., and Goodwill, S. (2008). Development of immediate feedback software for optimizing efficiency and time of initiating post-glide actions. The 7th Conference of the International Sport Engineering Association . Biarritz, France, June 2-6.

Naemi, R. and Sanders, R.H., (2007). A new method of measuring glide efficiency in swimming, Poster Presentation at The BASES Annual Conference, University of Bath, Belfast, 12-14 Sep 2007.

Psycharakis, S., Coleman, S., Connaboy, C., Kelly, J., McCabe, C., Naemi, R., and Sanders, R.H. (2007). Rolling actions of shoulders and hips in freestyle swimming. In H.J. Menzel and M.H. Chagas (Eds.) *Proceedings of XXV International Symposium on Biomechanics in Sports*, Ouro Preto, Brazil, pp. 83-86.

Connaboy, C., Coleman, S., McCabe, C., Naemi, R., Psycharakis, S., and Sanders, R.H. (2007). Tadpole, trout, or tuna: The equivalence of animal and human aquatic undulatory locomotion. In H.J. Menzel and M.H. Chagas (Eds.) *Proceedings of XXV International Symposium on Biomechanics in Sports*, Ouro Preto, Brazil, pp. 75-78.

Shahbazi, M.M. Sanders, R.H., McCabe, C., and Adams, R. (2007). Investigating correlations between swim pike turn kinematics variables in front crawl. In H.J. Menzel and M.H. Chagas (Eds.) *Proceedings of XXV International Symposium on Biomechanics in Sports*, Ouro Preto, Brazil, pp. 381-384.

Connaboy, C., Coleman, S.G., Sanders, R.H. (2007). Coordinating undulatory underwater swimming: A comparison of skilled versus unskilled swimmers. Progress in Motor Control VI. International Society of Motor Control. August 9 - 12. *Motor Control*. Vol. 11. Supp. pp. S189-S190.

Shahbazi, M.M. and Sanders, R.H. (2007). A kinematic analysis of freestyle flip turn push-off. In H.J. Menzel and M.H. Chagas (Eds.) *Proceedings of XXV International Symposium on Biomechanics in Sports*, Ouro Preto, Brazil, pp. 390-393.

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