

Adam Thrasher's publications since 2000

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Journal publications

Popovic MR, **Thrasher TA**, Adams ME, Takes V, Zivanovic V, Tonack MI. Functional electrical therapy: Retraining grasping in spinal cord injury, *Spinal Cord* 2005 Aug 30 [Epub ahead of print].

Thrasher TA, Flett HM, Popovic MR. Gait training regimen for incomplete spinal cord injury using functional electrical stimulation, *Spinal Cord* 2005 Oct 25 [Epub ahead of print].

Graham GM, **Thrasher TA**, Popovic MR. The Effect of Random Modulation of Functional Electrical Stimulation Parameters on Muscle Fatigue, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*. [In press]

Thrasher TA, Graham GM, Popovic MR. Reducing muscle fatigue due to Functional Electrical Stimulation using random modulation of stimulation parameters, *Artificial Organs*, 29(6):453-458, 2005.

Popovic MR, **Thrasher TA**, Zivanovic V, Takaki J, Hajek V. Neuroprosthesis for retraining reaching and grasping functions in severe hemiplegic patients, *Neuromodulation*, 8(1):58-72, 2005.

Thrasher TA, Popovic MR. Electrical stimulation and neuroprostheses for restoring swallowing function, *Perspectives on Swallowing and Swallowing Disorders (Dysphagia)*, June 2004, 13(2):28-31, 2004.

Steele CM, **Thrasher TA**, Popovic MR. Stimulation approaches to the restoration and rehabilitation of swallowing: A review. *Neurological Research*. [In review]

Thrasher TA, Andrews BJ. Passive gait in the medially linked knee-ankle-foot orthosis, *Computer Methods in Biomechanics and Biomedical Engineering*. [In review]

Book chapters

Popovic MR, **Thrasher TA**. "Neuroprostheses," In: *Encyclopedia of Biomaterials and Biomedical Engineering* [eds.: Wnek GE, Bowlin GL], Marcel Dekker, New York, July, 2004, pp. 1056-1065.

Abstracts

Thrasher TA, Graham GM, Popovic MR. Attempts to reduce muscle fatigue by

randomizing FES parameters, *Artificial Organs*, vol. 28, No. 8, p. 765, 2004.

Thrasher TA, Popovic MR. Neuroprostheses for short-term intervention in incomplete SCI, *Journal of Spinal Cord Medicine*, vol. 27, No. 2, p. 184-185, 2004.

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Thrasher TA, Flores A, Popovic MR. Muscle synergies for pressure management during prolonged sitting, *Progress in Motor Control V*, State College, Pennsylvania, Aug 17-20, 2005, p. 8-29.

Thrasher TA, Keller T, Lawrence M, Popovic MR. Effects of isometric FES and dynamic FES on cardiovascular parameters on an active tilt-table stepper, *Proceedings of 10th International Functional Electrical Stimulation Society Conference*, Montreal, Canada, Jul 5-9, 2005, pp. 409-411.

Flores A, **Thrasher TA**, Popovic MR. Mechanisms of pressure redistribution during prolonged sitting, *2nd Annual Ontario Biomechanics Conference*, Barrie, Canada, Feb 18-20, 2005. [**Winner: NexGen Ergonomics Award**]

Graham GM, Popovic MR, **Thrasher TA**. Random Modulation of Functional Electrical Stimulation Parameters, *National Spinal Cord Rehabilitation Conference*, Toronto, Canada, Sep 16-18, 2004, p. 92.

Adams ME, Takes V, **Thrasher TA**, Zivanovic V, Bulsen A, Tonack MI, Popovic MR. Functional Electrical Stimulation: A therapeutic tool to restore hand function in patients with spinal cord injury, *National Spinal Cord Rehabilitation Conference*, Toronto, Canada, Sep 16-18, 2004, p. 83.

Thrasher TA, Graham GM, Popovic MR. Attempts to reduce muscle fatigue by randomizing FES parameters, *Proceedings of 8th Vienna International Workshop on Functional Electrical Stimulation*, Vienna, Austria, Sep 10-13, 2004, pp. 80-83.

Thrasher TA, Graham GM, Popovic MR. Effect of Random Modulation of FES Parameters on Muscle Fatigue, *Proceedings of 9th International Functional Electrical Stimulation Society Conference*, Bournemouth, England, Sept. 6-9, 2004, pp. 366-368.

Vanoncini M, **Thrasher TA**, Andrews BJ. Increasing trunk stiffness via FES in paraplegic subjects, *Proceedings of 9th International Functional Electrical Stimulation Society Conference*, Bournemouth, England, September 6-9, 2004, pp. 165-167.

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MacKnight EB, Popovic MR, **Thrasher TA**. Functional electrical therapy for assisted treadmill training: use of passive dynamics, *Proceedings of the 25th Annual International Conference the IEEE Engineering in Medicine and Biology Society*, Cancun, Mexico, September 17-21, 2003, pp. 1523-1526.

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Thrasher TA, Andrews BJ. Dynamic lateral articulation of the rigid trunk produces foot clearance in MLKAFO gait, *IV World Congress on Biomechanics*, Calgary, Canada, August 4-9, 2002.

Andrews BJ, **Thrasher TA**, Chan A, Davoodi R. Trunk momentum can reduce upper limb forces in FES aided paraplegic locomotion, *Proceedings of 5th International Functional Electrical Stimulation Society Conference*, Aalborg, Denmark, June 18-21, 2000, pp. 482-485.