

## Scientific Publication list

Barrett, M., Prasad, A., Boyce, L., Dawson-Bowling, S., Achan, P., Millington, S., & Hanna, S. A. (2018). Total hip arthroplasty outcomes in morbidly obese patients: a systematic review. *EFORT Open Reviews*, 3(9), 507.

Bischof, H. (n.d.). *A Vision-based System for Biomechanical Testing of Articular Cartilage* Werner Trobin, Matthias Rüther, Steven Millington 2 and.

Boyce, L., Prasad, A., Barrett, M., Dawson-Bowling, S., Millington, S., Hanna, S. A., & Achan, P. (2019). The outcomes of total knee arthroplasty in morbidly obese patients: a systematic review of the literature. *Archives of Orthopaedic and Trauma Surgery*, 139(4), 553–560.

Cui, Q., Milbrandt, T., Millington, S., Anderson, M., & Hurwitz, S. (2005). Treatment of posttraumatic adhesive capsulitis of the ankle: a case series. *Foot & Ankle International*, 26(8), 602–606.

Friedrich, K. M., Trattnig, S., Millington, S. A., Friedrich, M., Groschmidt, K., & Pretterkloiber, M. L. (2007). High-field magnetic resonance imaging of meniscoids in the zygapophyseal joints of the human cervical spine. *Spine*, 32(2), 244–248.

Grabner, M., Millington, S., Wozelka, R., & Jammerlegg, A. (2007). Measurement of human cartilage geometry. *Proceedings of the 23rd Spring Conference on Computer Graphics*, 153–160.

Hanna, S. A., Dawson-Bowling, S., Millington, S., Bhumbra, R., & Achan, P. (2017). Total hip arthroplasty in patients with Paget's disease of bone: a systematic review. *World Journal of Orthopedics*, 8(4), 357.

Juras, V., Welsch, G. H., Millington, S., Szomolanyi, P., Mamisch, T. C., Pinker, K., & Trattnig, S. (2009). Kinematic biomechanical assessment of human articular cartilage transplants in the knee using 3-T MRI: an in vivo reproducibility study. *European Radiology*, 19(5), 1246–1252.

Li, B., Millington, S. A., Anderson, D. D., & Acton, S. T. (2006). Registration of surfaces to 3D images using rigid body surfaces. *2006 Fortieth Asilomar Conference on Signals, Systems and Computers*, 416–420.

Li, K., Millington, S., Wu, X., Chen, D. Z., & Sonka, M. (2005). Simultaneous segmentation of multiple closed surfaces using optimal graph searching. *Biennial International Conference on Information Processing in Medical Imaging*, 406–417.

Markus, G., Millington, S., Wozelka, R., & Jammernegg, A. (2015). Measurement of Human Cartilage Geometry. *Work, 2015*.

Millington, S. A., Grabner, M., Wozelka, R., Anderson, D. D., Hurwitz, S. R., & Crandall, J. R. (2007). Quantification of ankle articular cartilage topography and thickness using a high resolution stereophotography system. *Osteoarthritis and Cartilage, 15*(2), 205–211.

Millington, S. A., Li, B., Tang, J., Trattnig, S., Crandall, J. R., Hurwitz, S. R., & Acton, S. T. (2007). Quantitative and topographical evaluation of ankle articular cartilage using high resolution MRI. *Journal of Orthopaedic Research, 25*(2), 143–151.

Millington, S. A., Li, K., Wu, X., Hurwitz, S., & Sonka, M. (2005). Automated simultaneous 3D segmentation of multiple cartilage surfaces using optimal graph searching on MRI images. *Osteoarthritis Cartilage, 13*(Suppl. A), 130.

Millington, S. A., Tomasch, E., Mayrhofer, E., Hoschopf, H., Hofinger, M., Steffan, H., Stronach, F., Leinzinger, E. P., & Darok, M. (2005). High speed X-ray assessment of the bony kinematics of the cervical spine during frontal impacts. *SAE Transactions, 239*–246.

Millington, S., Grabner, M., Wozelka, R., Hurwitz, S., & Crandall, J. (2007). A stereophotographic study of ankle joint contact area. *Journal of Orthopaedic Research, 25*(11), 1465–1473.

Millington, S., Tomasch, E., Mayrhofer, E., Hoschopf, H., Hofinger, M., Steffan, H., Leinzinger, E., & Darok, M. (2004). The use of high speed X-ray to assess the bony kinematics of the cervical spine in PMHS specimen during whiplash testing. *Advanced Passive Safety Network*.

Millington, S., & Wu, X. (n.d.). *Simultaneous Segmentation of Multiple Closed Surfaces Using Optimal Graph Searching*.

Onochie, E., Kayani, B., Dawson-Bowling, S., Millington, S., Achan, P., & Hanna, S. (2019). Total hip arthroplasty in patients with chronic liver disease: a systematic review. *SICOT-J, 5*, 40.

Popat, R., Tsitskaris, K., Millington, S., Dawson-Bowling, S., & Hanna, S. A. (2018). Total knee arthroplasty in patients with Paget's disease of bone: A systematic review. *World Journal of Orthopedics*, 9(10), 229.

Prasad, A., Donovan, R., Ramachandran, M., Dawson-Bowling, S., Millington, S., Bhumbra, R., Achan, P., & Hanna, S. A. (2018). Outcome of total knee arthroplasty in patients with poliomyelitis: a systematic review. *EFORT Open Reviews*, 3(6), 358–362.

Rudd, R., Crandall, J., Millington, S., Hurwitz, S., & Höglund, N. (2004). *Injury tolerance and response of the ankle joint in dynamic dorsiflexion*. SAE Technical Paper.

Rudd, R. W. (2005). *Injury tolerance of the human ankle in impact-induced dorsiflexion*. University of Virginia.

Salzar, R. S., “Dale” Bass, C. R., Kent, R., Millington, S., Davis, M., Lucas, S., Rudd, R., Folk, B., Donnellan, L., & Murakami, D. (2006). Development of injury criteria for pelvic fracture in frontal crashes. *Traffic Injury Prevention*, 7(3), 299–305.

Sarahrudi, K., Hora, K., Heinz, T., Millington, S., & Vécsei, V. (2006). Treatment results of pathological fractures of the long bones: a retrospective analysis of 88 patients. *International Orthopaedics*, 30(6), 519–524.

Tang, J., Millington, S., & Acton, S. (2006). Jeff Crandall and Shepard Hurwitz, “Surface Extraction and Thickness measurement of the articular Cartilage from MR images using Directional Gradient Vector Flow Snake” *IEEE Tr. On Biomedical Engineering*, 52(5).

Tang, J., Millington, S., Acton, S., Crandall, J., & Hurwitz, S. (2004a). Cartilage surface tracking using directional gradient vector flow snakes. *IEEE Int. Conf. on Image Processing, Singapore*.

Tang, J., Millington, S., Acton, S. T., Crandall, J., & Hurwitz, S. (2004b). Ankle cartilage surface segmentation using directional gradient vector flow snakes. *2004 International Conference on Image Processing, 2004. ICIP'04.*, 4, 2745–2748.

Tang, J., Millington, S., Acton, S. T., Crandall, J., & Hurwitz, S. (2006). Surface extraction and thickness measurement of the articular cartilage from MR images using directional gradient vector flow snakes. *IEEE Transactions on Biomedical Engineering*, 53(5), 896–907.

Trattnig, S., Mamisch, T. C., Welsch, G. H., Glaser, C., Szomolanyi, P., Gebetsroither, S., Stastny, O., Horger, W., Millington, S., & Marlovits, S. (2007). Quantitative T2

mapping of matrix-associated autologous chondrocyte transplantation at 3 Tesla: an in vivo cross-sectional study. *Investigative Radiology*, 42(6), 442–448.

Trobin, W., Rüther, M., Millington, S. A., & Bischof, H. (2007). A vision-based system for biomechanical testing of articular cartilage. *31st Annual Workshop of the Austrian Association for Pattern Recognition: ÖAGM 2007*, 113–121.

van Dommelen, J. A. W., Ivarsson, B. J., Jolandan, M. M., Millington, S. A., Raut, M., Kerrigan, J. R., Crandall, J. R., & Diduch, D. R. (2005). Characterization of the rate-dependent mechanical properties and failure of human knee ligaments. *SAE Transactions*, 80–90.

Welsch, G. H., Scheffler, K., Mamisch, T. C., Hughes, T., Millington, S., Deimling, M., & Trattnig, S. (2009). Rapid estimation of cartilage T2 based on double echo at steady state (DESS) with 3 Tesla. *Magnetic Resonance in Medicine: An Official Journal of the International Society for Magnetic Resonance in Medicine*, 62(2), 544–549.