Computer-aided techniques for assessment of MRI-detected inflammation for early identification of inflammatory arthritis
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E. Aizenberg, E.A.H. Roex, W.P. Nieuwenhuis, L. Mangnus, A.H.M. van der Helm–van Mil, M. Reijnierse, J.L. Bloem, B.P.F. Lelieveldt, B.C. Stoel, "Automatic quantification of bone marrow edema on MRI of the wrist in patients with early arthritis: a feasibility study," *Magnetic Resonance in Medicine*, vol. 79(2), pp. 1127–1134, 2018.

E. Aizenberg[*], D.P. Shamonin[*], M. Reijnierse, A.H.M. van der Helm–van Mil, B.C. Stoel, "Automatic quantification of tenosynovitis on MRI of the wrist in patients with early arthritis: a feasibility study," *European Radiology*, doi: 10.1007/s00330-018-5807-2, 2018.

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E. Aizenberg[*], R.M. ten Brinck[*], M. Reijnierse, A.H.M. van der Helm–van Mil, B.C. Stoel, "Identifying MRI-detected inflammatory features specific for rheumatoid arthritis: two-fold feature reduction maintains predictive accuracy in clinically suspect arthralgia patients," *Seminars in Arthritis and Rheumatism*, doi: 10.1016/j.semarthrit.2018.04.005, 2018.

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Curriculum Vitae

Evgeni Aizenberg was born in Moscow, USSR, on June 28, 1990. In 2012, he received his B.Sc. degree in Electrical Engineering from Boston University, USA, where he worked as an undergraduate researcher at the Biomedical Optics Lab and conducted his bachelor thesis on automated detection of colon pre-cancer based on in vivo endomicroscopy images. In 2014, he received his M.Sc. degree in Electrical Engineering from Delft University of Technology, The Netherlands. His master thesis on computer-aided evaluation of inflammatory changes on MRI of the spine in patients with suspected axial spondyloarthritis was carried out at the Division of Image Processing (LKEB) at Leiden University Medical Center, The Netherlands, and the same year he joined LKEB as a PhD researcher. The goal of his PhD work was development of computer-aided techniques for assessment of MRI-detected inflammation for early identification of inflammatory arthritis. The results of his research are published in various scientific journals and are included in this thesis.