

PEER REVIEWED JOURNAL ARTICLES:

In Press:

- (95) J Guo, C Wang, K-S Chan, D Jin, **PK Saha**, JP Sieren, RG Barr, MLK Han, E Kazerooni, CB Cooper, D Couper, JD Newell Jr, EA Hoffman, “Improved scanner surveillance in a multi-center longitudinal lung study by limiting test-object-based sources of variability. The SubPopulations and Intermediate Outcome Measures in COPD Study (SPIROMICS)”, *Medical Physics*, accepted under revision.
- (94) KS Iyer, JD Newell-Jr, D Jin, MK Fuld, **PK Saha**, S Hansdottir, EA Hoffman, “Quantitative dual energy computed tomography supports a vascular etiology of smoking induced inflammatory lung disease” *American Journal of Respiratory and Critical Care Medicine*, in press.
- (93) S Dudley-Javoroski, MA Petrie, CL McHenry, RE Amelon, **PK Saha**, RK Shields, “Bone architecture adaptations after spinal cord injury: impact of long-term vibration of a constrained lower limb”, *Osteoporosis International*, in press.
- (92) **PK Saha**, S Basu, E Hoffman, “Multi-scale opening of conjoined fuzzy objects: theory and applications”, *IEEE Transactions of Fuzzy Systems*, in press.
- (91) D Jin, KS Iyer, C Chen, EA Hoffman, **PK Saha**, “A Robust and Efficient Curve Skeletonization Algorithm for Tree-Like Objects Using Minimum Cost Paths”, *Pattern Recognition Letters*, in press.
- (90) **PK Saha**, G Borgefors, G Sanniti di Baja, “A survey on skeletonization algorithms and their applications”, *Pattern Recognition Letters*, in press.

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- (89) A Hotca, CS Rajapakse, C Cheng, S Honig, K Egol, RR Regatte, **PK Saha**, G Chang, “In vivo measurement reproducibility of femoral neck microarchitectural parameters derived from 3T MR images”, *Journal of Magnetic Resonance Imaging*, **42**(5), 1339-1345, 2015.
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- (87) **PK Saha**, Y Liu, C Chen, D Jin, EM Letuchy, Z Xu, RE Amelon, TL Burns, JC Torner, SM Levy, CA Calarge, “Characterization of trabecular bone plate-rod micro-architecture using multi-row detector CT and the tensor scale: algorithms, validation, and applications to pilot human studies”, *Medical Physics*, **42**(9), 5410-5425, 2015.
- (86) C Li, D Jin, C Chen, EM Letuchy, KF Janz, TL Burns, JC Torner, SM Levy, **PK Saha**, “Automated cortical bone segmentation for multirow-detector CT imaging with validation and application to human studies”, *Medical Physics*, **42**(8), 4553-4565, 2015.
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- (84) G Chang, D Xia, C Chen, G Madelin, SB Abramson, JS Babb, **PK Saha**, RR Regatte, “7T MRI detects deterioration in subchondral bone microarchitecture in subjects with mild knee osteoarthritis as compared with healthy controls”, *Journal of Magnetic Resonance Imaging*, **41**(5), 1311-1317, 2015.

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- (79) ML Raghavan, GV Sharda, J Huston III, J Mocco, AW Capuano, JC Torner., **PK Saha**, I Meissner, RD Brown Jr., “Aneurysm shape reconstruction from biplane angiograms in the ISUIA collection”, *Translational Stroke Research*, **5**(2), 252-259, 2014.

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- (76) Z Gao, RW Grout, C Holtze, EA Hoffman, **PK Saha**, “A new paradigm of interactive artery/vein separation in non-contrast pulmonary CT imaging using multi-scale topo-morphologic opening”, *IEEE Transactions on Biomedical Engineering*, **59**(11), 3016-3027, 2012.
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- (61) FW Wehrli, GA Ladinsky, C. Jones, M Benito, J Magland, B. Vasilic, AM Popescu, B Zemel, AJ Cucchiara, AC Wright, HK Song, **PK Saha**, H Peachey, PJ Snyder, “In vivo magnetic resonance detects rapid remodeling changes in the topology of the trabecular bone network after menopause and the protective effect of estradiol”, *Journal of Bone Mineral Research*, **23**(5), 730-740, 2008.
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- (56) KC Ciesielski, JK Udupa, **PK Saha**, Y Zhuge, “Iterative relative fuzzy connectedness for multiple objects with multiple seeds”, *Computer Vision Image Understanding*, **107**(3), 160-182, 2007.
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