

## CHEN Cheng: Peer-reviewed Scientific Publications

- 27 A. Binia, L. Lavalle, C. Chen, Austin, Agosti, Al-Jashi, Pereira, Costeira, Silva, Marchini, Martinez-Costa, Stiris, Stoicescu, Vanpée, Rakza, Billeaud, Picaud, Domellof, Adamss, Eastaneda-Gutierrez, Sprenger. Human milk oligosaccharides, infant growth, and adiposity over the first 4 months of lactation. *Pediatric Research* 90(3), 2021.
- 26 C. Chen, J. Husny, S. Rabe. Predicting fishiness off-flavor and identifying compounds of lipid oxidation in dairy powders using SPME-GC/MS and machine learning. *International Dairy Journal*, 77 (19-28), 2018
- 25 C. Chen, D.Belavy, W.Yu, C.Chu, G.Armbrrecht, M.Bansmann, D.Felsenberg, G. Zheng. Localization and segmentation of 3D intervertebral discs in MR images by data-driven estimation. *IEEE Transactions on Medical Imaging*, 34(8), 2015
- 24 C. Chen, W. Xie, J. Franke, P.A. Grutzner, L.-P. Nolte, G. Zheng. Automatic X-ray landmark detection and shape segmentation via data-driven joint estimation of image displacements. *Medical Image Analysis*, 18(3): 487-499, 2014
- 23 C. Chen, G. Zheng. Fully Automatic Segmentation of AP Pelvis X-rays via Random Forest Regression with Efficient Feature Selection and Hierarchical Sparse Shape Composition. *Computer Vision and Image Understanding (CVIU)*, 2014
- 22 C. Chen, D. Belavy, G. Zheng. 3D Intervertebral disc localization and segmentation from MR images by data-driven regression and classification. In: *5th International Workshop on Machine Learning in Medical Imaging*, 2014
- 21 C. Chen, W. Xie, J. Franke, P. A. Grutzner, L.-P. Nolte, G. Zheng. Fully Automatic XRay Image Segmentation via Joint Estimation of Image Displacements. In: *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2013
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- 19 C. Chen, G. Zheng. Robust Proximal Femur Segmentation in Conventional X-ray Images via Random Forest Regression on Multiresolution Gradient Features. In: *International Conference on Image Analysis and Recognition (ICIAR)*, 2013
- 18 C. Chen, R. Kojcev, C. Haschmann, T. Fekete, L. Nolte, G. Zheng. Ruler based Automatic C-arm Image Stitching without Overlapping Constraint. In: *Deutsche Gesellschaft für Computer- und Roboterassistierte Chirurgie (CURAC)*, 2013.
- 17 C. Chen, G. Zheng. Fully Automatic Segmentation of AP Pelvis X-rays via Random Forest Regression and Hierarchical Sparse Shape Composition. In: *International Conference on Computer Analysis of Images and Patterns (CAIP)*, 2013
- 16 W. Xie, C. Chen, L.P. Nolte, G. Zheng. Statistical model-based femur segmentation in digital Anteroposterior (AP) Pelvic radiographs. In: *International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS)*, 2013
- 15 M. Valenti, C. Chen, E. De Momo, G. Ferrigno, G. Zheng. 3D Shape Landmark Correspondence by Minimum Description Length and Local Linear Regularization. In: *MEDICONE*, 2013
- 14 C. Chen, J.-M. Odobez. We are not contortionists: coupled adaptive learning for head and body orientation estimation in surveillance video. In: *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2012 (oral presentation)

- 13 C. Chen, Y. Zhuang, F. Nie, Y. Yang, F. Wu, J. Xiao. Learning a 3D human pose distance metric from geometric pose descriptor. *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 17(11): 1676-1689, 2011
- 12 C. Chen, Y. Yang, F. Nie, J.-M. Odobez. 3D human pose recovery from image by efficient visual feature selection. *Computer Vision and Image Understanding (CVIU)*, 115(3): 290-299, 2011
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- 10 A. Heili, C. Chen, J.-M. Odobez. Detection-based multi-human tracking using a CRF model. In: *ICCV Workshop Visual Surveillance*, 2011.
- 9 C. Chen, Y. Zhuang, J. Xiao. Silhouette representation and matching for 3D pose discrimination - A comparative study. *Image and Vision Computing (IVC)*, 28(4): 654-667, 2010.
- 8 C. Chen, Y. Zhuang, J. Xiao, Z. Liang. Perceptual 3D pose distance estimation by boosting relational geometric features. *Computer Animation and Virtual Worlds*, 20(2-3): 267-277, 2009.
- 7 L. Zhang, J. Xiao, Y. Zhuang, C. Chen. Competitive motion synthesis based on hybrid control. *Computer Animation and Virtual Worlds*, 20(2-3): 225-235, 2009
- 6 C. Chen, Y. Zhuang, J. Xiao, F. Wu. Adaptive and compact shape descriptor by progressive feature combination and selection with boosting. In: *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2008
- 5 Y. Zhuang, J. Yu, J. Xiao, C. Chen. Perspective-aware cartoon clips synthesis. *Computer Animation and Virtual Worlds*, 19: 355-364, 2008
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