JOURNALS

- [1] Rahil Mehrizi, **Xi Peng**, Xu Xu, Shaoting Zhang, Dimitris Metaxas, and Kang Li. A computer vision based method for 3d posture estimation of symmetrical lifting. *Journal of Biomechanics* (**JOB**, *IF*:2.43), 69:40–46, 2018.
- [2] **Xi Peng**, Rogerio S Feris, Xiaoyu Wang, and Dimitris N Metaxas. Red-net: A recurrent encoder-decoder network for video-based face alignment. *International Journal of Computer Vision (IJCV, IF:11.54)*, 126(10):1103–1119.
- [3] **Xi Peng**, Shaoting Zhang, Yang Yu, and Dimitris N Metaxas. Toward personalized modeling: Incremental and ensemble alignment for sequential faces in the wild. *International Journal of Computer Vision* (**IJCV**, *IF*:11.54), 126(2-4):184–197, 2018.
- [4] **Xi Peng**, Junzhou Huang, Qiong Hu, Shaoting Zhang, Ahmed Elgammal, and Dimitris Metaxas. From circle to 3-sphere: Head pose estimation by instance parameterization. *Computer Vision and Image Understanding* (CVIU, *IF*:2.39), 136:92–102, 2015.
- [5] Ming Tang and **Xi Peng**. Robust tracking with discriminative ranking lists. *IEEE Transactions on Image Processing (TIP, IF:5.07)*, 21(7):3273–3281, 2012.

CONFERENCES

- [6] Zhiqiang Tang, **Xi Peng**, Shijie Geng, Lingfei Wu, and Dimitris N Metaxas. Quantized densely connected u-nets for efficient landmark localization. In *European Conference on Computer Vision* (**ECCV**), 2018.
- [7] Long Zhao, **Xi Peng**, Mubbasir Kapadia, and Dimitris N Metaxas. Learning to forecast and refine residual motion for image-to-video generation. In *European Conference on Computer Vision* (**ECCV**), 2018.
- [8] Long Zhao, **Xi Peng**, Mubbasir Kapadia, and Dimitris N Metaxas. Learning residual motion in video generation. In *Workshops of European Conference on Computer Vision* (ECCV Workshops), 2018.
- [9] Zhiqiang Tang, **Xi Peng**, Shijie Geng, Yizhe Zhu, and Dimitris N Metaxas. Cu-net: Coupled u-nets. In *British Machine Vision Conference* (**BMVC** *Oral*), 2018.
- [10] Yu Tian, **Xi Peng**, Long Zhao, Shaoting Zhang, and Dimitris N Metaxas. Cr-gan: Learning complete representations for multi-view generation. In *International Joint Conference on Artificial Intelligence* (**IJCAI**), 2018.
- [11] **Xi Peng***, Zhiqiang Tang*, Fei Yang, Rogerio S Feris, and Dimitris N Metaxas. Jointly optimize data and network training: Adversarial data augmentation in human pose estimation. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**). * contribute equally, 2018.
- [12] Yizhe Zhu, Mohamed Elhoseiny, Bingchen Liu, **Xi Peng**, and Ahmed Elgammal. A generative adversarial approach for zero-shot learning from noisy texts. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**), 2018.
- [13] Rahil Mehrizi, **Xi Peng**, Zhiqiang Tang, Xu Xu, Dimitris Metaxas, and Kang Li. Toward marker-free 3d pose estimation in lifting: A deep multi-view solution. In *IEEE International Conference and Workshops on Automatic Face and Gesture Recognition* (**FG**), 2018.
- [14] **Xi Peng**, Xiang Yu, Kihyuk Sohn, Dimitris N Metaxas, and Manmohan Chandraker. Reconstruction-based disentanglement for pose-invariant face recognition. In *Proceedings of the IEEE International Conference on Computer Vision* (**ICCV**), 2017.
- [15] **Xi Peng**, Rogerio S Feris, Xiaoyu Wang, and Dimitris N Metaxas. A recurrent encoder-decoder network for sequential face alignment. In *European Conference on Computer Vision* (ECCV *Oral*, *Best Student Paper Runner-up*), 2016.
- [16] **Xi Peng**, Qiong Hu, Junzhou Huang, and Dimitris N Metaxas. Track facial points in unconstrained videos. *British Machine Vision Conference* (**BMVC**), 2016.
- [17] **Xi Peng**, Nalini Ratha, and Sharathchandra Pankanti. Learning face recognition from limited training data using deep neural networks. In *International Conference on Pattern Recognition* (**ICPR** *Oral*, *Best Student Paper Runner-up*), 2016.
- [18] **Xi Peng**, Junzhou Huang, and Dimitris N Metaxas. Sequential face alignment via person-specific modeling in the wild. In *Workshops of Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR Workshops**), 2016.

- [19] **Xi Peng**, Shaoting Zhang, Yu Yang, and Dimitris N Metaxas. Piefa: Personalized incremental and ensemble face alignment. In *Proceedings of the IEEE International Conference on Computer Vision* (**ICCV**), 2015.
- [20] **Xi Peng**, Junzhou Huang, Qiong Hu, Shaoting Zhang, and Dimitris N Metaxas. Three-dimensional head pose estimation in-the-wild. In *IEEE International Conference and Workshops on Automatic Face and Gesture Recognition* (**FG**), 2015.
- [21] **Xi Peng**, Junzhou Huang, Qiong Hu, Shaoting Zhang, and Dimitris N Metaxas. Head pose estimation by instance parameterization. In *International Conference on Pattern Recognition* (**ICPR**), 2014.
- [22] Carol Neidle, Jingjing Liu, Bo Liu, **Xi Peng**, Christian Vogler, and Dimitris Metaxas. Computer-based tracking, analysis, and visualization of linguistically significant nonmanual events in american sign language (asl). In *Workshop of Language Resources and Evaluation Conference* (**LREC Workshops**), 2014.
- [23] Qiong Hu, **Xi Peng**, Peng Yang, Fei Yang, and Dimitris N Metaxas. Robust multi-pose facial expression recognition. In *International Conference on Pattern Recognition (ICPR)*, 2014.
- [24] Ming Tang, **Xi Peng**, and Duowen Chen. Robust tracking with discriminative ranking lists. In *Asian Conference on Computer Vision (ACCV Oral)*, 2010.

MANUSCRIPTS UNDER REVIEW

- [25] **Xi Peng**, Zhiqiang Tang, Yizhe Zhu, and Dimitris N Metaxas. Coconet: Learning a competitive and cooperative agent for network enhancement. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI <i>under review*), 2018.
- [26] Zhiqiang Tang, **Xi Peng**, Kang Li, and Dimitris N Metaxas. Towards efficient u-nets: A coupled and quantized approach. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI <i>under review*), 2018.
- [27] Yu Tian, **Xi Peng**, Long Zhao, Shaoting Zhang, and Dimitris N Metaxas. Learning dual-agent for improved inference and generation. In *The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI under review)*, 2018.
- [28] Rahil Mehrizi, **Xi Peng**, Xu Xu, and Kang Li. A deep neural network-based method for 3d lifting motion estimation. *Journal of Biomechanics* (**JOB** *under review*), 2018.
- [29] Rahil Mehrizi, **Xi Peng**, Xu Xu, Shaoting Zhang, Dimitris Metaxas, and Kang Li. Predicting 3d lower-back joint load in lifting: A deep pose estimation approach. *IEEE Transactions on Human-Machine System (THMS under review)*, 2018.
- [30] Long Zhao, Fangda Han, **Xi Peng**, Xun Zhang, Mubbasir Kapadia, Vladimir Pavlovic, and Dimitris Metaxas. Sketch-based face editing in videos using identity deformation transfer. *IEEE Transactions on Visualization and Computer Graphics* (**TVCG** *under review*), 2018.
- [31] Yu Tian, **Xi Peng**, Long Zhao, Shaoting Zhang, and Dimitris N Metaxas. Learning complete representations for improved adversarial generation and inference. *International Journal of Computer Vision (IJCV in submission)*, 2018.
- [32] Long Zhao, **Xi Peng**, Mubbasir Kapadia, and Dimitris N Metaxas. Learning residual motions in long-term video generation. *International Journal of Computer Vision (IJCV in submission)*, 2018.

PATENTS

- [33] Xiang Yu, Kihyuk Sohn, Manmohan Chandraker, and **Xi Peng**. Siamese reconstruction convolutional neural network for pose-invariant face recognition, 2018. US Patent under process.
- [34] Sharath U Pankanti, Xi Peng, and Nalini K Ratha. Visual object recognition, 2017. US Patent App. 15/089,707.
- [35] Ming Tang and **Xi Peng**. A classification-based multi-scale visual object tracking system, 2010. CASIA Software Patent NO. 2010SRBJ6289.