

Heng-Da Cheng Publications

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Papers in Refereed Journals

- Yanhui Guo, R. Jiang, X. Gu, H. D. Cheng, H. Garg, "A novel fuzzy relative-position-coding transformer for breast cancer diagnosis using ultrasonography", *Healthcare*, 2023.
- Yingtao Zhang, Min Xian, H. D. Cheng, B. Shareef, J. Ding, Fei Xu, "BUSIS: A Benchmark for Breast Ultrasound Image Segmentation". *Healthcare*, 2022.
- C. Shi, M. Xian, X. Zhou, H. Wang, H. D. Cheng, "Multi-slice low-rank tensor de-composition based multi-atlas segmentation: Application to automatic pathological liver CT segmentation", *Medical Image Analysis*, Vo. 73, Oct. 2021, 102152.
- Fei Xu, Y. Zhang, H. D. Chen, Boyu Zhang, Jianrui Ding, Chunping Ning, Ying Wang, "Tumor Saliency Estimation for Breast Ultrasound Images via Breast Anatomy Modeling", *Artificial Intelligence In Medicine*, 119, 2021.
- Kuan Huang, Y. Zhang, H. D. Cheng, P. Ximg, B. Zhang, "Semantic segmentation of breast ultrasound image with fuzzy deep learning network and breast anatomy constraints", *Neurocomputing*, 450 , 319-335, 2021.
- K. Zhang, H. D. Cheng, Y. Zhang, "CrackGAN: Pavement Crack detection using partially accurate ground truths based on generative adversarial learning", *IEEE Trans. Intelligent Transportation Systems*, 1306-1319, 2021.
- Kaige Zhang, H. D. Cheng and B. Zhang, "Self-Supervised Structure Learning for Crack Detection Based on Cycle-Consistent Generative Adversarial Learning", *Journal of Computing in Civil Engineering*, 34(3), 2020.
- Hongjiao Guan, Yingtao Zhang, H. D. Cheng, M. Xian and X. Tang, "BA2Cs: Bounded abstaining with two constraints of reject rates in binary classification", *Neurocomputing*, Vol. 357, pp. 125-134, 2019.
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- Kaige Zhang, H. D. Cheng and B. Zhang, "Unified approach to pavement crack & sealed crack detection using pre-classification based on transfer learning", *Journal of Computing in Civil Engineering*, 32(2), 2018.
- Hongjiao Guan, Yingtao Zhang, H. D. Cheng and X. Tang, "A Novel Imbalanced Classification Method Based on Decision Tree and Bagging", *International Journal of Performability*

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Xian Min, Zhang Yingtao, Cheng H. D. Xu Fei, Zhang Boyu, Ding Jianrui, "Automatic Breast Ultrasound Image Segmentation: A Survey", *Pattern Recognition*, Vol. 79, pp. 340-355, 2018.

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Min Xian, Yingtao Zhang, H. D. Cheng, Fei Xu, Jianrui Ding, "Neutro-Connectedness Cut", *IEEE Transaction on Image Processing*, vol. 25, no. 10, pp. 4691-4703, 2016

Yingjie Zhang, Jianxing Xu, H. D. Cheng, "A Novel Fuzzy Level Set Approach for Image Contour Detection", *Mathematical Problems in Engineering*, 2016.

C. Liu, H.D. Cheng, Y. Zhang, Y. Wang, M. Xian, "Robust multiple cue fusion-based high-speed and non-rigid object tracking algorithm for short track speed skating", *Journal of Electron Imaging*, 25(1), 2016.

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