Jun Qin, Ph.D.
Associate Professor, tenure
School of Electrical, Computer, and Biomedical Engineering
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Education
Ph.D., Duke University, 2008

Academic Experience
Associate Professor, tenure, Department of Electrical and Computer Engineering (elevated as School of Electrical, Computer, and Biomedical Engineering since 2020), Southern Illinois University Carbondale, Illinois, 2018-present

Research Interests
Speech and video processing, visual attention prediction, saliency modeling, deep learning, medical devices, noise induced hearing loss, deep learning and machine learning

Service activities
Faculty Senate, elected, Southern Illinois University Carbondale, 2024 -present.
Invited Reviewer and panelist, federal proposal review panels, NSF, NASA, etc.
Referee/Reviewer for journals IEEE Transactions on Cognitive and Developmental System, IEEE Transactions on Instrumentation and Measurement, Degital Signal Processing, etc.
Program Committee for IEEE conferences.

Selected Journal Publications:
1. Campbell, K., Cosenza, N., Meech, R., Buhnerkempe, M., Qin, J., Rybak, L., & Fox, D. Preloaded D-methionine protects from steady state and impulse noise-induced hearing loss and induces long-term cochlear and endogenous antioxidant effects. PLoS One. 2021; *16*(12): e0261049.
2. Mahdi A, Qin J, Crosby G. DeepFeat: A Bottom-Up and Top-Down Saliency Model Based on Deep Features of Convolutional Neural Networks. IEEE Transactions on Cognitive and Developmental Systems. 2020; 12(1):54-63.
3. Mahdi A, Qin J. An extensive evaluation of deep features of convolutional neural networks for saliency prediction of human visual attention. Journal of Visual Communication and Image Representation. 2019; 65:102662.
4. Sun P, Mahdi A, Xu J, Qin J. Speech enhancement in spectral envelope and details subspaces. Speech Communication. 2018; 101:57-69.
5. Sun P, Qin J. Speech enhancement via two-stage dual tree complex wavelet packet transform with a speech presence probability estimator. The Journal of the Acoustical Society of America. 2017; 141(2):808-817.
6. Sun P, Fox D, Campbell K, Qin J. Auditory fatigue model applications to predict noise induced hearing loss in human and chinchilla. Applied Acoustics. 2017; 119:57-65.
7. Sun P, Qin J. Low-Rank and Sparsity Analysis Applied to Speech Enhancement Via Online Estimated Dictionary. IEEE Signal Processing Letters. 2016; 23(12):1862-1866.