

# **VCIP 2022 Special Session on**

## **Low Level Vision and Signal Recovery**

Low level vision mainly focuses on the extraction of image properties from images, including super resolution, dehazing, deraining, deblurring, denoising, image enhancement, inpainting, etc. Recently, related approaches to low level vision have attracted a large number of attentions and become a quite popular area of research in computer vision. Notably, with the rapid development and unprecedented success of deep learning, the last decade has witnessed considerable progress in applying neural networks to the solutions to low level vision.

Existing low level vision techniques have accomplished outstanding achievements. However, there are still some problems to be solved. How to further improve the objective and subjective quality of restored images? Under adverse weather conditions, for various down-stream applications such as object detection and tracking, even in conjunction with low level vision, it is difficult for these follow-up vision tasks to acquire robust performance. How to deal with it?

This special session aims to promote research into the design of low level vision and signal recovery algorithms, to attain higher quality of restored images, or to produce images which can be well applied to subsequent down-stream vision applications to significantly boost their performance under severe weather, low illumination, motion blur, obstruction, etc.

Topics of interest include, but are not limited to:

- Image super resolution
- Image dehazing
- Image deraining
- Image restoration
- Image reconstruction
- Image deblurring
- Image denoising

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