Challenge on Multi-Modal Image Fusion

Existing Method (1) : ✓ Automatic, × Low Visibility



Proposed Multi-Modal Image Fusion (1)

Evaluate visibility pixel-by-pixel based on camera (e.g. thermos camera) and environments (e.g. light condition, occlusion).

Automatically select region for fusion from multi-modal images.



Proposed Multi-Modal Image Fusion (2)

Analyze important feature for anomaly detection in non-visible image. Generate output image by enhancing the important feature without artifacts such as crushed black and clipped highlight.



 $(\ensuremath{\mathbb{X}})$ Used with permission from ImPACT Tough Robotics Challenge

3