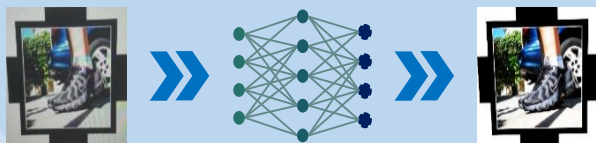


## Multimedia Communications and Signal Processing Lab.

### Deep Learning for Image Processing

- Single Image Dehazing via Deep Learning-based Image Restoration
- Color Restoration of Underwater Images Based on Deep Learning
- Underwater Object Detection based on Deep Learning
- Knowledge Distillation of Pose Estimation Network
- Two-stage Image Inpainting with Structure and Texture-aware Learning



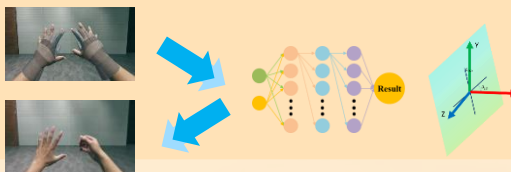
### Deep Learning for Data Analysis

- Great Maintenance Time Prediction for Wind Turbine
- Application of Big Data Analysis
- Forecasting The Approval Rate of Politicians based on Social Media



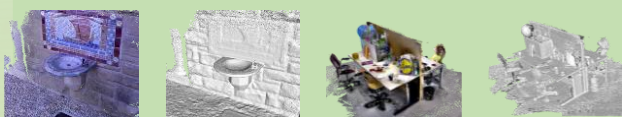
### AR VR MR

- VR Immersive Virtual Social Platform Construction
- Multi-sensory AI Virtual Reality Interactive System



### 3D reconstruction

- Rigid / Non-rigid 3D Reconstruction
- Deep Learning-based Warp Field Estimation for Non-rigid 3D Reconstruction
- Two-dimensional Monocular Image Depth Information Prediction



### Video coding

- Deep Learning-based Improvement for Picture Quality and Coding Performance
- Image Deblocking Based on Deep Learning

