

2012 Summer Internship in Color Superresolution – Intel Corporation

Topic:

Conduct advanced research in the area of superresolution for deep color video and large scaling factors under the supervision of a senior R&D engineer.

Specific tasks include:

- Review of the literature and implement fast prototypes of methods of highest relevance
- Capture the requirements for deep color, large scale SR, including characterization of a set of test images/videos
- Design a prototype incorporating methods which can potentially address the requirements by themselves or in combination

Tangible outcomes include technical report, publications, test suite, and software prototypes.

Qualifications:

- Relevant course work/research including: digital signal processing, image/video processing, transformed domain processing (inc. frequency domain, wavelets, curvelets, etc.), interpolation algorithms (polyphase, edge-directed), non-linear image resizing (e.g. seam carving).
- Specialized course projects and research in two or more of: superresolution, blind superresolution, content-aware image resizing, wavelet-based interpolation, low complexity superresolution, DCT/Wavelet based superresolution, learning-based superresolution, reconstructive image up-conversion, spatio-temporal video up-conversion.
- Education: M.S., Ph.D. candidate in CS/EE/CE/Color Science

If interested, please contact:

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