Colour and Visual Computing Symposium
Wednesday 19. September 2018

08:30–08:45  Registration
08:45–09:00  Conference Opening
09:00–09:45  Keynote 1 Holly Rushmeier: Material Appearance Issues in Cultural Heritage
09:45–10:00  Coffee Break
10:00–12:00  Poster Session (Chair: Jean Baptiste Thomas)
• Novel approach to uniformization of a color space via generic deep learning-based transformation.
• Deep learning for dehazing: Comparison and analysis.
• Can image quality enhancement methods improve the performance of biometric systems for degraded face images?
  • Hand-crafted vs deep features: A quantitative study for pedestrian appearance model.
  • Melon crack identification and classification using k-means clustering for quality inspection.
  • Statistics of hyperspectral data/image analysis: Entropy.
  • A corrected single-constant Kubelka-Munk model for color prediction of pre-colored fiber blends.
  • A key frame based summarization using color features.
  • Determining the sequence of intersecting lines in document forgery by colorimetric evaluation.
  • A pilot study on Iranian skin color.
  • Spatially dependent white balance for fill flash photography.
  • CNN feature similarity: Paintings are more self-similar at all levels.
  • A deep learning-based human activity recognition in darkness.
12:00–13:00  Lunch Break
13:00–13:45  Keynote 2 Michael Felsberg: Online Machine Learning for Robot Vision
13:45–14:00  Coffee Break
14:00–15:00  Vision Session (Chair: Holly Rushmeier)
• CEED - A database for image contrast enhancement evaluation.
• Colour-To-Greyscale image conversion by linear anisotropic diffusion of perceptual colour metrics.
• Methods for psychophysical assessment of colour difference by observers with a colour vision deficiency.
15:00–15:20  Coffee Break
15:20–16:20  Colour Imaging Session (Chair: Shoji Tominaga)
• Comparison of mosaic patterns for spectral filter analysis.
• Dye purification: an image-processing technique for the digital restoration of chromogenic film.
• Evaluation of color correction methods for printed surfaces.
16:45–17:45  Colourlab tour (Optional)
19:00–23:00  Conference dinner (Science Center: Brennerigata 1, 2815 Gjøvik)
09:00–09:15  Registration & Coffee

09:15–10:00  Keynote 3 Marcelo Bertalmio: From Vision Models to Cinema Applications, and Back

10:00–10:15  Coffee Break

10:15–11:15  Colour and Light Session (Chair: Patrick Callet)
  • Effects of ambient illumination on text recognition for UI development.
  • Evaluation of gamut mapping algorithms in different uniform colour spaces.
  • Photo-realistic style transfer for cinema shoots.

11:15–11:30  Coffee Break

11:30–12:30  Medical Session (Chair: Azzedine Beghdadi)
  • Validation of stereo vision based liver surface reconstruction for image guided surgery.
  • Stochastic correction of boundary conditions during liver surgery.
  • Enhancing dermoscopy images to improve melanoma detection.

12:30–13:30  Lunch Break

13:30–14:30  Appearance Session (Chair: Philipp Urban)
  • Dependence of texture classification accuracy on spectral information.
  • Measurement uncertainty for printed textiles.
  • Application of spectral statistics to spectral texture discrimination.

14:30–14:45  Best Student Paper Award, Closing