
Gjovik, Norway
19 – 20 September 2018
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
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<tr>
<td>08:30–08:45</td>
<td>Registration</td>
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<tr>
<td>08:45–09:00</td>
<td>Conference Opening</td>
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<tr>
<td>09:00–09:45</td>
<td><strong>Keynote 1</strong> Holly Rushmeier: Material Appearance Issues in Cultural Heritage</td>
<td>N/A</td>
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<td>09:45–10:00</td>
<td>Coffee Break</td>
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| 10:00–12:00 | **Poster Session** (Chair: Jean Baptiste Thomas) | • Novel approach to uniformization of a color space via generic deep learning-based transformation.....1  
• Deep learning for dehazing: Comparison and analysis.....5  
• Can image quality enhancement methods improve the performance of biometric systems for degraded face images?.....11  
• Hand-crafted vs deep features: A quantitative study for pedestrian appearance model.....16  
• Melon crack identification and classification using k-means clustering for quality inspection.....22  
• Statistics of hyperspectral data/image analysis: Entropy.....27  
• A corrected single-constant Kubelka-Munk model for color prediction of pre-colored fiber blends.....N/A  
• A key frame based summarization using color features.....33  
• Determining the sequence of intersecting lines in document forgery by colorimetric evaluation.....N/A  
• A pilot study on Iranian skin color.....39  
• Spatially dependent white balance for fill flash photography.....44  
• CNN feature similarity: Paintings are more self-similar at all levels.....49  
• A deep learning-based human activity recognition in darkness.....55 |
| 12:00–13:00 | Lunch Break                        |                                                                         |
| 13:00–13:45 | **Keynote 2** Michael Felsberg: Online Machine Learning for Robot Vision | N/A                                                                     |
| 13:45–14:00 | Coffee Break                       |                                                                         |
| 14:00–15:00 | **Vision Session** (Chair: Holly Rushmeier) | • CEED - A database for image contrast enhancement evaluation.....60  
• Colour-To-Greyscale image conversion by linear anisotropic diffusion of perceptual colour metrics.....66  
• Methods for psychophysical assessment of colour difference by observers with a colour vision deficiency.....72 |
| 15:00–15:20 | Coffee Break                       |                                                                         |
| 15:20–16:20 | **Colour Imaging Session** (Chair: Shoji Tominaga) | • Comparison of mosaic patterns for spectral filter arrays.....78  
• Dye purification: an image-processing technique for the digital restoration of chromogenic film.....84  
• Evaluation of color correction methods for printed surfaces.....89 |
| 16:20–16:45 | Invited Paper Patrick Callet: Transparent Materials Colour and Appearance | N/A                                                                     |
| 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…N/A

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.....99
  • Evaluation of gamut mapping algorithms in different uniform colour spaces.....105
  • Photo-realistic style transfer for cinema shoots.....109

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.....115
  • Stochastic correction of boundary conditions during liver surgery.....121
  • Enhancing dermoscopy images to improve melanoma detection.....125

12:30–13:30  Lunch Break

13:30–14:30  Appearance Session (Chair: Philipp Urban)
  • Dependence of texture classification accuracy on spectral information.....131
  • Measurement uncertainty for printed textiles.....137
  • Application of spectral statistics to spectral texture discrimination.....143

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