

## Symposium Programme\*

Thursday September 8

Venue: NTNU, Campus Gjøvik, Kobolt building, room K105

09:00 Welcome

### Session on Medical Imaging

09:20 Keynote by Robert Jenssen  
"Visual Intelligence for medical image analysis"

10:20 Break

10:40 A New Matrix Decomposition Framework for Specular Reflection Removal from Endoscopic Images  
*Jithin Joseph (NITC - National Institute of Technology Calicut), Sudhish George (NITC), Kiran Raja (NTNU)*

11:00 3D Reconstruction of the Human Colon from Capsule Endoscope Video  
*Pål Anders Floor (NTNU), Ivar Farup (NTNU), Marius Pedersen (NTNU)*

11:20 3D Reconstruction of GI Regions from Single Images  
*Bilal Ahmad (NTNU), Pål Anders Floor (NTNU), Ivar Farup (NTNU), Milan Kresović (NTNU)*

11:40 Predictions of the reflectance factor of translucent layered dental resin composites using two-flux models: assessing the importance of the interface reflectance parameter  
*Vincent Duveiller (LHR - Laboratoire Hubert Curien), Emmanuel Kim (Institut d'Optique Graduate School), Marie Locquet (Institut d'Optique Graduate School), Arthur Gautheron (CREATIS), Raphaël Clerc (LHR), Jean-Pierre Salomon (Institut de Science des Matériaux de Mulhouse), Mathieu Hébert (LHR)*

12:00 Lunch in cafeteria, Gneis Building

\*programme is subject to change

## Session on Colour Perception

- |       |   |
|-------|---|
| 13:00 | Keynote by Karl Gegenfurtner<br>"Color vision for objects"  |
| 14:00 | Color Characterization of Displays using Neural Networks<br><i>Ujjayanta Bhaumik (KU Leuven)</i>  |
| 14:20 | Student demo / poster Session<br><i>in the Atrium, A-building, ground floor</i>   |
| 15:20 | Break   |
| 15:40 | Colour difference assessment in controlled and uncontrolled environments<br><i>Mohammad Jaber Hossain (NTNU), Phil Green (NTNU)</i>   |
| 16:00 | Effects of ipRGC on Color Perception based on Display-Based Color-Matching Task<br><i>Kyosuke Ota (Chiba University), Kota Akiba (Chiba University), Midori Tanaka (Chiba University), Takahiko Horiuchi (Chiba University)</i> |
| 16:20 | Color names affect the precision of memorized hues. The effect of increased color name distinctiveness<br><i>Zuzanna Skora (NTNU), Jon Yngve Hardeberg (NTNU)</i>   |
| 19:00 | Dinner at Strand Hotel Gjøvik. Address: Elvegata 3-4, Gjøvik<br>(We meet in the lobby)  |

## Friday September 8

Venue: NTNU, Campus Gjøvik, Kobolt building, room K105

## MANER Session

- |       |  |
|-------|--|
| 09:00 | Keynote by William Smith<br>"Self-supervised Inverse Rendering"  |
| 10:00 | Modeling of Translucency by Physical Measurement of Flat Surfaces<br><i>Hideaki Todo (CU - Chiba University), Midori Tanaka (CU), Takahiko Horiuchi (CU)</i>   |
| 10:20 | Effects of Display Modulation Transfer Function with Different Subpixel Layouts on Subjective Spatial Resolution<br><i>Tsubasa Ando (CU - Chiba University), Midori Tanaka (CU), Takahiko Horiuchi (CU), Kenichiro Masaoka (NHK)</i>               |
| 10:40 | Break  |
| 11:00 | Characterising appearance of gold foils used for gilding in the field of conservation science and restoration<br><i>Yoko Arteaga (Centre of Research and Restoration of the Museums of France), Jon Yngve Hardeberg (NTNU), Aditya Sole (NTNU)</i> |
| 11:20 | Appearance Manipulation in Spatial Augmented Reality using Image Differences<br><i>Davit Gigilashvili (NTNU), Giorgio Trumpy (NTNU)</i>  |

- 11:40 Preliminary Results of Angle-resolved BTDF Characterization of Optical Transmissive Diffusers  
*Jinglin Fu (PTB - Physikalisch-Technische Bundesanstalt); Jeppe Revall Frisvad (Technical University of Denmark), Michael Esslinger (PTB), Tatjana Quast (PTB), Alfred Schirmacher (PTB)*
- 12:00 Lunch in the cafeteria, Gneis building

### Session on Image Quality

- 13:00 Keynote by Sebastian Bosse “Neural approaches to visual quality estimation”
- 14:00 Subjective quality evaluation: what can be learnt from cognitive science?  
*Simon H Del Pin (NTNU), Seyed Ali Amirshahi (NTNU)*
- 14:20 A New Optimization Model for the Restoration of the Deteriorated Hyperspectral Fruit Images  
*Shanthini K S (NITC - National Institute of Technology Calicut), Sudhish George (NITC), Sony George (NTNU)*
- 14:40 Break

### Session on Imaging applications

- 15:00 An Efficient Framework for the Clustering of Human Activity Data using Kernelized Robust Covariance Descriptors  
*Subodh Raj M. S. (NITC - National Institute of Technology Calicut), Guntru Prasanth Kumar (NITC), Sudhish George (NITC)*
- 15:20 Virtual Cleaning of Artworks Using a Deep Generative Network  
*Morteza Maali Amiri (RIT - Rochester Institute of Technology), David Messinger (RIT)*
- 15:40 A self-guided anomaly detection-inspired few-shot segmentation network  
*Suaiba A Salahuddin (UiT - The Arctic University of Norway), Stine Hansen (UiT); Srishti Gautam (UiT), Michael C. Kampffmeyer (UiT), Robert Jenssen (UiT)*
- 16:00 Video Forgery Detection by Bitstream Analysis  
*Christophe Charrier (UNICAEN - University of Caen Normandy), Hugo Jean (UNICAEN), Emmanuel Giguet (CNRS)*
- 16:20 Evaluation of Dye-sublimation printing inks used for textile printing  
*Aditya Sole (NTNU), Aditi Modi, Shubham Naikare, Abhishek Jirwankar, Dattatray Tambe, Shrikala Kanade, Swati Nahar, (PVG's COET & GKPWIOM, SPPU University)*
- 16:40 Awards and Closing
- 17:00 End of Symposium