Publications:

- A comparison of reflectance properties on polymer micro-structured functional surface
  Publication: Research - peer-review › Poster – Annual report year: 2017

- An Error Analysis of Structured Light Scanning of Biological Tissue
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- An image-based method for objectively assessing injection moulded plastic quality
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- A perfomance assessment of a 2 axis scanning mirror galvanometer for powder bed fusion
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- Applied 3D Vision: An Empirical Study
  Publication: Research › Ph.D. thesis – Annual report year: 2018

- Augmented Reality Interfaces for Additive Manufacturing
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- A variational study on BRDF reconstruction in a structured light scanner
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- Computer Vision for Additive Manufacturing.
  Publication: Research › Ph.D. thesis – Annual report year: 2017

- Evaluation of optical functional surfaces on the injection moulding insert by micro milling process
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- In-line 3D print failure detection using computer vision
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- Modeling the Anisotropic Reflectance of a Surface with Microstructure Engineered to Obtain Visible Contrast after Rotation
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

- Photogrammetry for Repositioning in Additive Manufacturing
  Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
PicPrint: Embedding pictures in additive manufacturing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Process chain for fabrication of anisotropic optical functional surfaces on polymer components
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scene reassembly after multimodal digitization and pipeline evaluation using photorealistic rendering
Publication: Research › Journal article – Annual report year: 2017

Towards Plug-n-Play robot guidance: Advanced 3D estimation and pose estimation in Robotic applications
Publication: Research › Ph.D. thesis – Annual report year: 2017

Virtual reality inspection and painting with measured BRDFs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Wearable Gaze Trackers: Mapping Visual Attention in 3D
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

A Large-Scale 3D Object Recognition dataset
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Designing for Color in Additive Manufacturing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

In-Situ Monitoring in Additive Manufacturing Using Contact Image Sensors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Large-Scale Data for Multiple-View Stereopsis
Publication: Research - peer-review › Journal article – Annual report year: 2016

On Practical Sampling of Bidirectional Reflectance
Publication: Research › Ph.D. thesis – Annual report year: 2017

Precision and Accuracy Parameters in Structured Light 3-D Scanning
Publication: Research - peer-review › Conference article – Annual report year: 2016

Real Time Structured Light and Applications
Publication: Research › Ph.D. thesis – Annual report year: 2016

Reliable Gait Recognition Using 3D Reconstructions and Random Forests - An Anthropometric Approach
Publication: Research - peer-review › Journal article – Annual report year: 2016

Tangible 3D modeling of coherent and themed structures
Publication: Research - peer-review › Journal article – Annual report year: 2016

Accuracy in Robot Generated Image Data Sets
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Nanoparticles and nanoimaging for organic solar cells
Publication: Research › Ph.D. thesis – Annual report year: 2015
New equations to calculate 3D joint centres in the lower extremities
Publication: Research - peer-review › Journal article – Annual report year: 2015

Our 3D Vision Data-Sets in the Making
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Predicting Color Output of Additive Manufactured Parts
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Quality Assurance Based on Descriptive and Parsimonious Appearance Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Structured Light Scanning of Skin, Muscle and Fat
Publication: Research › Report – Annual report year: 2015

Teach it Yourself - Fast Modeling of Industrial Objects for 6D Pose Estimation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Addressing Grazing Angle Reflections in Phong Models
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

A Structured Light Scanner for Hyper Flexible Industrial Automation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Erratum to: Interesting Interest Points
Publication: Research › Comment/debate – Annual report year: 2014

Large Scale Multi-view Stereopsis Evaluation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Markerless motion capture can provide reliable 3D gait kinematics in the sagittal and frontal plane
Publication: Research - peer-review › Journal article – Annual report year: 2014

Classification of Pansharpened Urban Satellite Images
Publication: Research - peer-review › Journal article – Annual report year: 2012

Publication: Research - peer-review › Book – Annual report year: 2012

Interesting Interest Points: A Comparative Study of Interest Point Performance on a Unique Data Set
Publication: Research - peer-review › Journal article – Annual report year: 2011

Multiple View Stereo by Reflectance Modeling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

3D Shape Modeling Using High Level Descriptors
Publication: Research › Ph.D. thesis – Annual report year: 2012

3D Surface Scanner Using Structured Light & Industrial Robot
Publication: Research - peer-review › Poster – Annual report year: 2011
Descriptor Based Classification of Shapes in Terms of Style and Function
Publication: Research › Report – Annual report year: 2011

Example based style classification
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Finding the Best Feature Detector-Descriptor Combination
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

In Depth Analysis of Food Structures: Hyperspectral Subsurface Laser Scattering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Practical indoor mobile robot navigation using hybrid maps
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Supercontinuum Light Sources for Hyperspectral Subsurface Laser Scattering: Applications for Food Inspection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Empirical evaluation of a practical indoor mobile robot navigation method using hybrid maps
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

GPU-Boosted Camera-Only Indoor Localization
Publication: Research › Poster – Annual report year: 2010

Image Fusion for Classification of High Resolution Images Based on Mathematical Morphology
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Improved 3D reconstruction in smart-room environments using ToF imaging
Publication: Communication › Journal article – Annual report year: 2010

Markov Random Fields on Triangle Meshes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Nye metoder til geobranchen
Publication: Research › Journal article – Annual report year: 2010

On Recall Rate of Interest Point Detectors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Surfel Based Geometry Resonstruction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Computer Vision for Timber Harvesting
Publication: Research › Ph.D. thesis – Annual report year: 2009

Camera Resectioning from a Box
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Efficient Incorporation of Markov Random Fields in Change Detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009
Height and Tilt Geometric Texture
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Mobile Robot Navigation Using Visual Tags: A Review
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Service Robots for Hospitals: A Case Study of Transportation Tasks in a Hospital
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Shape Analysis Using the Auto Diffusion Function
Publication: Research - peer-review › Conference article – Annual report year: 2009

Effective Image Database Search via Dimensionality Reduction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Fusion of stereo vision and Time-Of-Flight imaging for improved 3D estimation
Publication: Research - peer-review › Conference article – Annual report year: 2007

Markov Random Fields on 3D Polygonal Meshes
Publication: Research › Conference abstract in proceedings – Annual report year: 2008

Model-based satellite image fusion
Publication: Research - peer-review › Journal article – Annual report year: 2008

TOF Imaging in Smart Room Environments towards Improved People Tracking
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Classification of Biological Objects Using Active Appearance Modelling and Color Cooccurrence Matrices
Publication: Research - peer-review › Book chapter – Annual report year: 2007

Environmental Effects on Measurement Uncertainties of Time-of-Flight Cameras
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

On Spatial Priors for Satellite Image Fusion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Smoothing of Fused Spectral Consistent Satellite Images with TV-based Edge Detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Variational Surface Interpolation from Sparse Point and Normal Data.
Publication: Research - peer-review › Journal article – Annual report year: 2007

Smoothing of Fused Spectral Consistent Satellite Images.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Spectrally consistent satellite image fusion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Spectrally Consistent Satellite Image Fusion with Improved Image Priors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006
Overlapping Constraint for Variational Surface
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Overlapping constraint for variational surface reconstruction
Publication: Research - peer-review › Book chapter – Annual report year: 2005

Signed distance computation using the angle weighted pseudonormal
Publication: Research - peer-review › Journal article – Annual report year: 2005

Signed Distance Computation using the Angle Weighted Pseudo-normal
Publication: Research - peer-review › Journal article – Annual report year: 2005

Spectral Consistent Satellite Image Fusion: Using a High
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

A Variational Analysis of Shape from Specularities using Sparse Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Methods for Structure from Motion
Publication: Research › Ph.D. thesis – Annual report year: 2003

PDE Based Shape from Specularities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

PDE Based Surface Estimation for Structure from Motion.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Pseudo--Normals for Signed Distance Computation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Structure Estimation and Surface Triangulation of Deformable Objects
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

A Factorization Approach for deformable Structure from Motion
Publication: Research › Article in proceedings – Annual report year: 2002

Computing discrete signed distance fields from triangle meshes
Publication: Research - peer-review › Report – Annual report year: 2002

Estimation of Deformable Structure and Motion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Factorization with Contaminated Data
Publication: Research › Article in proceedings – Annual report year: 2002

Factorization with Erroneous Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Generating Signed Distance Fields From Triangle Meshes
Publication: Research - peer-review › Report – Annual report year: 2002
Robust factorization
Publication: Research - peer-review › Journal article – Annual report year: 2002

Integrating prior knowledge and structure from motion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Robust structure and motion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Projects:

Estimation of Surface Radiometry
Project: PhD

Image Synthesis and Analysis of Engineered Surface Microstructure
Project: PhD

The Statistics of Estimated Surfaces
Project: PhD

Data analysis methods for process understanding and improvement in injection moulding production
Project: PhD

Material Appearance Prediction
Project: PhD

Verification of large scale surface geometry including shape and texture variation of injection molded surfaces
Project: PhD

Real-time Detection of Deformable Objects
Project: PhD

Image Base Tracking and 3D Content Generation
Project: PhD

Computer Vision based geometrical and textural control for 3D print and injection moulding processes
Project: PhD

A statistical Take on Computer Graphics - Automatic Radiometric Modelling of Real World Objects
Project: PhD

Computer Vision Assisted Motion Correction in Medical Imaging
Project: PhD

Miljøvenlige, organiske solceller med kontrolleret nanostruktur, baseret på partikler i vandig dispersion
Project: PhD

Towards Plug-n-Play robot guidance: Advanced 3D sensors and pose estimation in Robotic applications
Project: PhD
Decoupled visual control for robots based on structured light and weld seam tracking
Project

Operational Shape Descriptors
Project: PhD

New AI and its Application in Hospital Service Robotics
Project: PhD

3D Shape Modelling using High Level Descriptors
Project: PhD

A Systems Approach to Structure form Motion
Project: PhD

Godkendelse og sporing af tømmerstokke ved 3D-billedbehandling
Project: PhD

Modellering af biologisk diversitet hos grise
Project: PhD

3D/4D image analysis
Project: PhD