



FOTOKNOFF®

Disruptive innovations

«Transforms complicated problems into simple problems»

Clayton M. Christensen (d. 2020),
*amerikansk professor i økonomi og
ledelse ved Harvard Business School*

Fotogrammetri

- Vurderte utvikling av løsning allerede i 2018, men dyrt å sette i gang uten kunder
- Konkret henvendelse fra Myreze våren 2020 for å lage fremtidens TV
- Stort potensial
- Flere bruksområder innenfor kommuner, eiendom, forsikring, TV/film/spill mv.
- Skal levere beste kvaliteten, «millimeterpresisjon»
- Kan skanne større områder med samme kvalitet og presisjon
- Forskningsprosjekt (forprosjekt) godkjent juni 2020, gjennomføres fra august 2020, DistriktsForsk Midt
- Selskap etablert juli 2020, FotoKnoff 3D Visuals AS





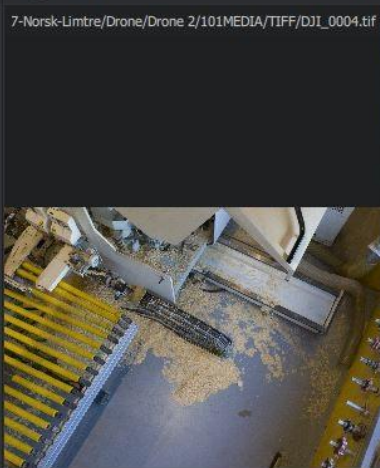
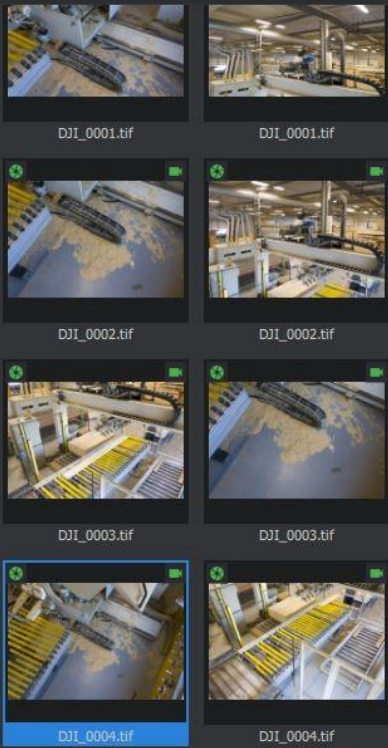


Start Stop

Images

Image Viewer

3D Viewer



DISPLAY

Grid, Camera, and other display controls.

CAMERA

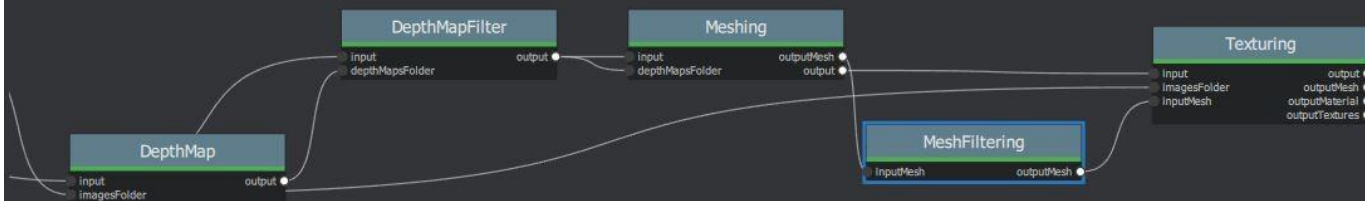
Camera controls including zoom and rotation.

SCENE

- SfMTTransform: 483,077 / 1454
- Texturing: 6,371,297 / 83
- MeshFiltering: 6,371,304

147x1454 | 0.06x | HDR | Image | [Icons]

Graph Editor



Node - MeshFiltering

Input Mesh: Meshing/10999e6f0a1daa59a5a9412d9a892da532ba82a6/mesh.obj

Filter Large Triangles Factor: 60

Keep Only the Largest Mesh: [checkbox]

Smoothing Iterations: 5

Verbose Level: Info

Output Mesh: filtering/853c327976c20dd7bb443b922a679472db87e216/mesh.obj

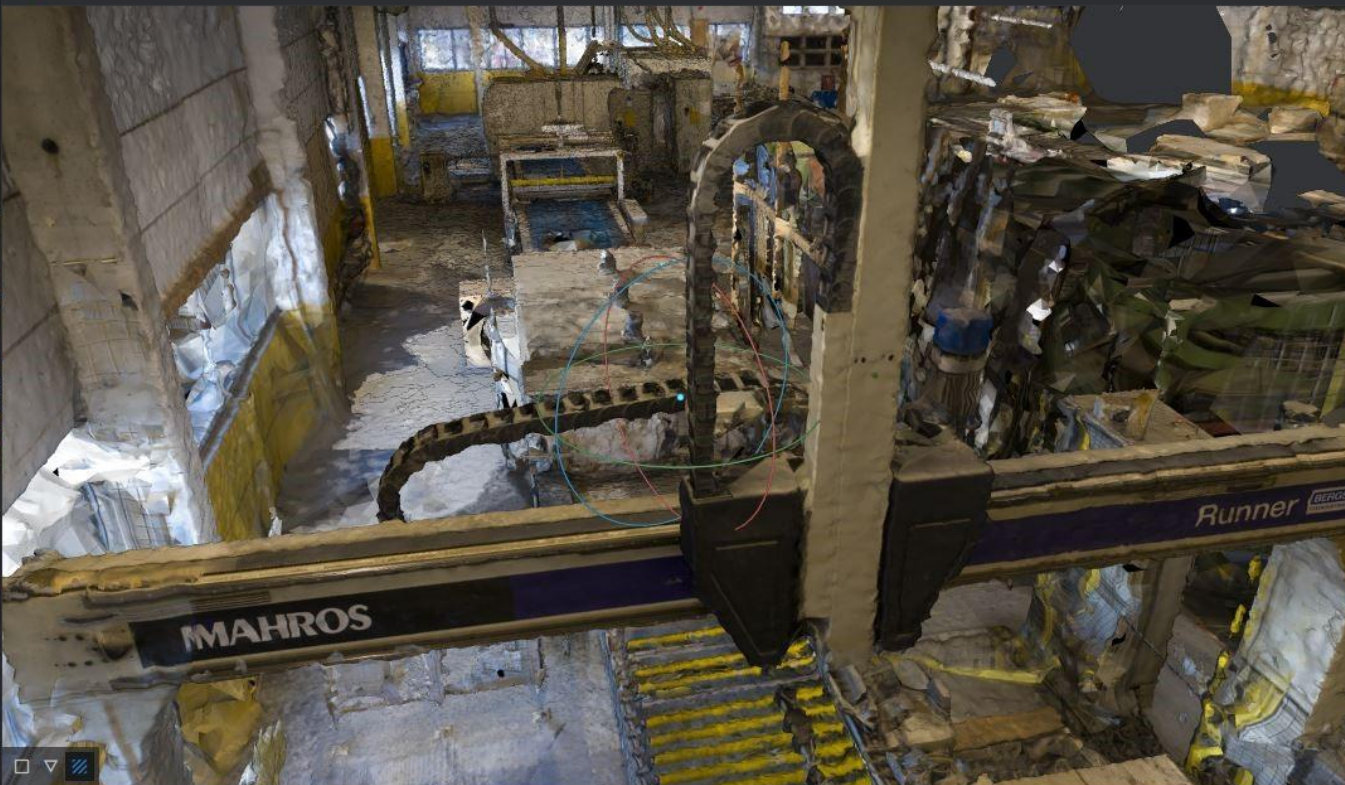
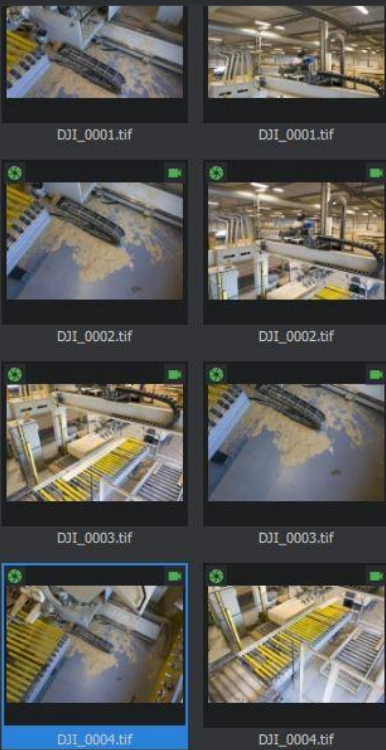
Start Stop

Images

Image Viewer

3D Viewer

d5d0f31fd4c3433b2968b3e0689753c51c42/1001364633.exr



DISPLAY

Grid, Camera, and other display controls.

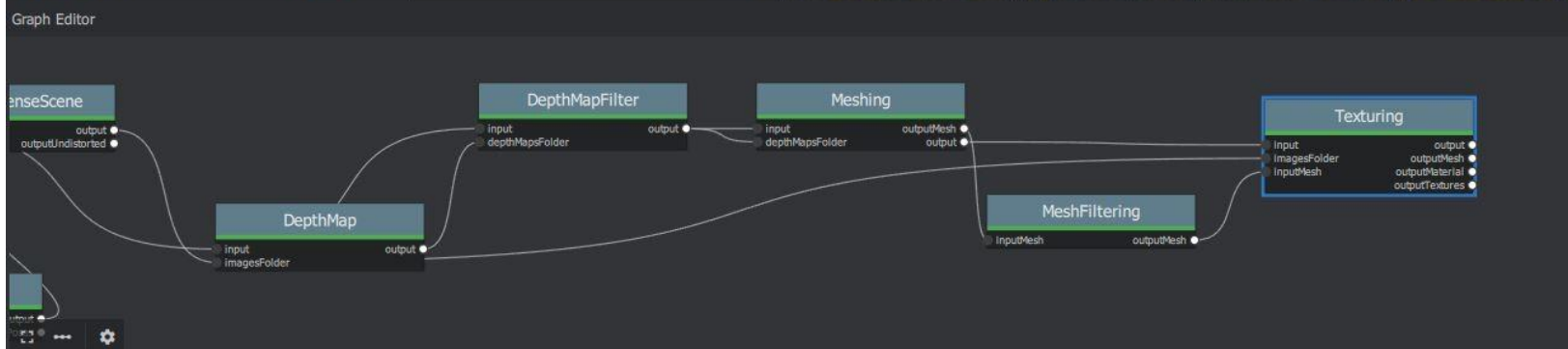
CAMERA

Camera controls including zoom and rotation.

SCENE

- SfMTTransform
 - 483,077 1454
- Texturing
 - 6,371,297 83
- MeshFiltering
 - 6,371,304
- PrepareDenseScene

147x1454 0.06x HDR Image



Node - Texturing

Input: 999e6f0a1daa59a5a9412d9a892da532ba82a6/densePointCloud.abc

Images Folder: repareDenseScene/da70d5d0f31fd4c3433b2968b3e0689753c51c42

Other Input Mesh: ltering/853c327976c20dd7bb443b922a679472db87e216/mesh.obj

Texture Side: 8192

Texture Downscale: 2

Texture File Type: png

Unwrap Method: Basic

Use UDIM:

Fill Holes:

Attributes Log Statistics Status Documentation

Bakgrunn

- Opprinnelig fagbrev kokk, 16 år på kjøkken verden rundt
- Egen restaurant i 4,5 år
- 4 år i vinbransjen, ansvarlig for kunder i hele Sør-Norge
- 5,5 år i NHO Reiseliv og NHO Trøndelag
 - Ansvarlig for reiseliv og senere reiseliv og teknologibedrifter
- 1 år som konseptleder i et webfirma
- 2,5 år som ansvarlig for digital markedsføring i Visit Trondheim
- Fra hobby til profesjonell fotograf i 2014, selvlært
- Vunnet 15 internasjonale filmpriser siden 2017

Awards

- **Zagreb Tourfilm Festival 2017**
 - Iconic Norway, Students Choice
- **Cannes Corporate Media & TV Awards 2017**
 - Iconic Norway, Silver Dolphin (Tourism),
 - Iconic Norway, Black Dolphin (Best Camera)
- **Art & Tur International Tourism Film Festival 2018**
 - Jotunheimen, 2nd place Sustainable Tourism
 - Narvik, 1st place Sports Tourism
- **Japan World's Tourism Film Festival 2019**
 - Varanger, 1st place Sports Tourism
- **International Tourism Film Festival Africa 2019**
 - Varanger, 1st place Nature & Rural Tourism
- **New York Festival Film & TV Awards 2020**
 - Varanger (Tourism), Silver Award
- **Deauville Green Awards 2020**
 - Adventures in Jotunheimen, (Silver Award, award ceremony June 18.)
- **The Terres Travel Festival 2020**
 - Varanger, Norway - Caring people - Rural LIFE - RAW nature, (2n. Tourism Products, award ceremony September 2020)
- **Art & Tur International Tourism Film Festival 2020**
 - Norway. Seasons. (second place, award ceremony October 2020)
- **NATOURALE 2020**
 - Norway. Seasons. (Best Music, award ceremony November 2020)



Sven-Erik Knoff, b. 1969, Oslo, Norway

Selected clients & publications: BBC, NRK, TV2-Nyhetene, Adresseavisen, NRK Trøndelag, Aftenposten, Dagbladet, Myreze, BMW, NHO, NHO Trøndelag, Innovasjon Norge, KPMG, EC Dahls Eiendom, Procut AS, Trondheim Symfoniorkester & Opera, Postgirobygget, Ice Music Festival Geilo, Trondheim Concerts/Elton John, Olavsfestdagene, Visit Norway, Visit Flaam, Visit Northwest, Hurtigruten, Kreftforeningen, Tripps Båtservice, Crazy Coyote Events, Trondheim Tech Guide, Glamox Luxo Lighting, Pirbadet, Quality Hotel Skifer Oppdal, Bortistu Oppdal, Scandic Hotels Norge, Øyna, Husfrua, Jægtvolden Fjordhotel, Visit Trondheim, Trondheim Kommune, Impello, InderøyBryllup, Stage Dolls, Åge Aleksandersen, Charlotte Audestad, Magasinet Padling, The Travel Inspector, Natural Light Earth, AquaGen, Quality Hotel Augustin Trondheim, Mitsubishi Motor Company, Visit Varanger, Havila Kystruten, Handysize Nordic, Scandic Hotels Norge, Trondheim Stage, Sirkus Shopping, AS Eidefoss, Visit Jotunheimen, Sparebank 1 Lom & Skjåk, Nidaros Domkirkes Restaureringsarbeider, Woodworks!.

Norwegian photographer
Based in Trondheim, Norway
International assignments
RO3 drone license from Norwegian Civil Aviation Authorities (Luftfartstilsynet)

FujiFilm GFX 50S
FujiFilm GFX 50S
FujiFilm X-T3
FujiFilm X-T4, multicam
Sennheiser AVX - microphones
Zoom H6 sound recording
DJI Ronin S - steadycam gimbal
GoPro 7
GoPro 8
DRONE DJI Inspire 2 X7 – 6K
DRONE DJI Mavic PRO
DRONE DJI Matrice M600PRO
Profoto lighting, B1 & B1X

For inquiries:

sven-erik@fotoknoff.no

M. +47 98 26 05 72

www.fotoknoff.no

<https://vimeo.com/fotoknoff>

FotoKnoff® is a registered trademark