VISUAL INTELLIGENCE

sfi Centre for Research-based Innovation

Poster Program VI-days 2022

#	Authors	Title
1	Srishti Gautam[a], Marina M.-C. Hohne[b,a] , Stine Hansen[a], Robert Jenssen[a], Michael Kampffmeyer [a] *[a] UiT The Arctic University of Norway* *[b] Technical University of Berlin*	Demonstrating The Risk of Imbalanced Datasets in Chest X-ray Image-based Diagnostics by Prototypical Relevance Propagation
2	Suaiba Amina Salahuddin, Michael Kampffmeyer, Changkyu Choi, Robert Jenssen and Shujian Yu *UiT The Arctic University of Norway*	Using multi-modal, explainable AI to improve the interpretability and reliability of deep learning in breast cancer
3	Nikita Shvetsov[a], Lars Ailo Bongo[a], Thomas Karsten Kilvaer[a], Kajsa Møllersen, Lill-Tove Rasmussen Busund[b] *[a] UiT The Arctic University of Norway* *[b] University Hospital of North Norway*	Fast tumor infiltrating lymphocytes assessment in whole slide images
4	Magnus Størdal[a], Benjamin Ricaud[a], Michael Kampffmeyer[a], Geir Bertelsen[a,b] Maja Gran Erke[c] *[a] UiT The Arctic University of Norway* *[b]University Hospital of North Norway* *[c] Direktoratet for e-helse*	Towards sharper occlusion based XAI for Diabetic Retinopathy
5	Eirik Østmo[a], Kristoffer Wickstrøm[a], Keyur Radiya[b], Michael Kampffmeyer[a], Robert Jenssen[a] *[a] UiT The Arctic University of Norway* *[b] University Hospital of North Norway*	Improving liver tumor segmentation with random CT viewing windows and weakly supervised contrastive learning
6	Erland Grimstad, Robert Jenssen, Sigurd Løkse *UiT The Arctic University of Norway*	Deep Representation-aligned Graph Multi-view Clustering
7	Durgesh K. Singh, Ahcéne Boubekki, Robert Jenssen, Michael Kampffmeyer *Machine Learning Group, UiT The Arctic University of Norway*	SSL-LVAM Semi-Supervised Left Ventricle Automatic Measurement Exploiting temporal information from labeled and unlabeled frames in 2D cardiac ultrasound for improved left ventricle automatic measurement
8	Iver Martinsen[a] , David Wade[b] , Fred Godtliebsen[a,] Benjamin Ricaud[c] *[a] SFI Visual Intelligence, IMS, UiT* *[b] Equinor* *[c] SFI Visual Intelligence, IFT, UiT*	Species Classification Automation for Microfossil Photomicrograph Images SCAMPI Unsupervised approaches

9	Markus Tiller[a], Torgeir Brenn[b], Robert Jenssen[c], Lars Ailo Bongo[a] [a] *Dept. Computer Science, UiT* [b] *KSAT AS* [c] *Dept. Physics and Tech, UiT*	ShipPointYolo: End-to-end network for ship detection in SAR images
10	Alba Ordonez[a], Anders U. Waldeland[a] , David Wade[b] [a]*Norsk Regnesentral* [b]*Equinor*	Seismic Analogy Retrieval
11	Fredrik A. Dahl, Marit Holden, Olav Brautaset and Line Eikvil *Norsk Regnesentral*	A two-stage mammography classification model using XAI for ROI detection
12	Are C. Jensen, Arnt-Børre Salberg, Izzie Y. Liu, Øivind D. Trier, Øystein Rudjord, Rune Solberg *Norsk Regnesentral*	Automatic building-change detection in aerial images
13	Jon Berezowski[a] , Thomas Haugland Johansen[b] , Jonas Nordhaug Myhre[b], Fred Godtliebsen[c] [a] *Elliptic Labs* [b] *NORCE Norwegian Research Center* [c] *UiT The Arctic University of Norway*	Variable Depth Bayesian Neural Networks using Reversible Jumps
14	Ashenafi Zebene Woldaregay[a] , Maria Olsen Fossmark[b] , Hector Mercado Valls[a] , Karl Øyvind Mikalsen[a,c] [a]*The Norwegian Center for Clinical Artificial Intelligence (SPKI), University Hospital of North Norway* [b] *Department of Radiology, University Hospital of North Norway* [c] *Department of Clinical Medicine, UiT The Arctic University of Norway*	Deep Learning Based Segmentation and Volumetric Analysis of Neonatal Brain MRI for Securing the Diagnosis of Abusive Head Trauma in Children
15	Changkyu Choi[a,d] , Shujian Yu [a,d], Michael Kampffmeyer [a,b,d] , Arnt-Børre Salberg [b,d] , Nils Olav Handegard [c,d] , Suaiba Amina Salahuddin [a,d], Robert Jenssen [a,b,d] [a] *UiT The Arctic University of Norway* [b] *Norsk Regnesentral* [c] *Havforskningsinstituttet* [d] *SFI Visual Intelligence*	Explaining Marine Acoustic Target Classification in Multi-channel Echosounder Data using Self-attention Mask, Information-Bottleneck, and Mask Prior
16	Daniel J. Trosten, Sigurd Løkse, Robert Jenssen, Michael Kampffmeyer *UiT Machine Learning Group, UiT The Arctic University of Norway*	On the Role of Self-supervision in Deep Multi-view Clustering
17	Marius Aasan, Adín R. Rivera, Odd Kolbjørnsen, Anne H. Schistad Solberg *University of Oslo*	An Information Metric for Partitions on Images