 [Aerosol Optical Depth Retrievals with Invertible Neural Networks](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper891974.html)

Aerosol Optical Depth Retrievals with Invertible Neural Networks Paolo Pelucchi1, Philip Stier2 and Gustau Camps-Valls1, (1)Image Processing Laboratory, Universitat de València, Paterna, Spain, (2)University of Oxford, Department of Physics, Oxford, United Kingdom << Previous Abstract | Next Abstract >> Search

@InProceedings{Pelucchi21iMAGU,

title={{Aerosol Optical Depth Retrievals with Invertible Neural Networks}},

author={Paolo Pelucchi and Philip Stier and Gustau Camps-Valls},

Booktitle = {AGU American Geophysical Union},

Address = {New Orleans LA USA & Online, 13-17 December 2021, https://www.agu.org/Fall-Meeting},

month = {December},

year={2021},

Organization = {AGU},

project = {iMIRACLI},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper891974.html},

}

 [Climate-Induced Displacement with Explainable Machine Learning Models](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper881761.html)

Climate-Induced Displacement with Explainable Machine Learning Models José María Tárraga1, Michele Ronco SR.1, Maria Teresa Miranda2, Maria Piles1, Eva Sevillano Marco1, Jordi Muñoz1 and Gustau Camps-Valls1, (1)Image Processing Laboratory, Universitat de València, Paterna, Spain, (2)Internal Displacement Monitoring Centre, Geneva, Switzerland

@InProceedings{JM21DCAGU,

title={{Climate-Induced Displacement with Explainable Machine Learning Models}},

author={José María Tárraga and Michele Ronco and Maria Teresa Miranda and, Maria Piles and Eva Sevillano Marco and Jordi Muñoz and Gustau Camps-Valls},

Booktitle = {AGU American Geophysical Union},

Address = {New Orleans LA USA & Online, 13-17 December 2021, https://www.agu.org/Fall-Meeting},

month = {December},

year={2021},

Organization = {AGU},

project = {DeepCube},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper881761.html},

}

 [Learning Granger Causal Feature Representations](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper857866.html)

Learning Granger Causal Feature Representations Gherardo Varando, Universitat de València, Image Processing Laboratory, Paterna, Spain, Miguel-Ángel Fernández-Torres, Universitat de València, Image Processing Laboratory, Burjassot, Spain and Gustau Camps-Valls, Image Processing Laboratory, Universitat de València, Paterna, Spain << Previous Abstract |

@InProceedings{Ghe21USAGU,

title={{Learning Granger Causal Feature Representations}},

author={Gherardo Varando},

Booktitle = {AGU American Geophysical Union},

Address = {New Orleans LA USA & Online, 13-17 December 2021, https://www.agu.org/Fall-Meeting},

month = {December},

year={2021},

Organization = {AGU},

project = {USMILE},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper857866.html},

}

 [Long-time record and continuous high resolution gross primary productivity estimates at continental scales.](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper934068.html)

Long-time record and continuous high resolution gross primary productivity estimates at continental scales. Alvaro Moreno1, Laura Martínez-Ferrer1, John Kimball2, Martin Jung3, Markus Reichstein4, Steven W Running5, Nicholas Clinton6 and Gustau Camps-Valls1, (1)Image Processing Laboratory, Universitat de València, Paterna, Spain, (2)University

@InProceedings{AM21USAGU,

title={{Long-time record and continuous high resolution gross primary productivity estimates at continental scales}},

author={Álvaro Moreno and Laura Martínez-Ferrer and John Kimball and Martin Jung and Markus Reichstein and Steven W Running and Nicholas Clinton and Gustau Camps-Valls},

Booktitle = {AGU American Geophysical Union},

Address = {New Orleans LA USA & Online, 13-17 December 2021, https://www.agu.org/Fall-Meeting},

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year={2021},

Organization = {AGU},

project = {USMILE},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper857866.html},

}

 [*A Unified Vegetation Index for Quantifying the Terrestrial Biosphere*](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper805896.html)

A Unified Vegetation Index for Quantifying the Terrestrial Biosphere Gustau Camps-Valls1, Manuel Campos-Taberner2, Alvaro Moreno3, Sophia Walther4, Gregory Duveiller5, Alessandro Cescatti6, Miguel Mahecha7, Jordi Munoz-Mari8, Javier Garcia-Haro9, Luis Guanter10, Jung Martin4, John Arthur Gamon11, Markus Reichstein4 and Steven W Running12,

@InProceedings{GCV21USAGU,

title={{A Unified Vegetation Index for Quantifying the Terrestrial Biosphere}},

author={Gustau Camps-Valls and Manuel Campos-Taberner and Álvaro Moreno and Sophia Walther and Gregory Duveiller and Alessandro Cescatti and Miguel Mahecha and Jordi Muñoz-Marí and Javier García-Haro and Luis Guanter and Jung Martin and John Arthur Gamon and Markus Reichstein and Steven W Running},

Booktitle = {AGU American Geophysical Union},

Address = {New Orleans LA USA & Online, 13-17 December 2021, https://www.agu.org/Fall-Meeting},

month = {December},

year={2021},

Organization = {AGU},

project = {USMILE},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper805896.html},

}

 [Reconstruction of Seasonal Interaction of Soil Moistureand Tree Water Content Over Boreal Forests](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper963834.html)

Reconstruction of Seasonal Interaction of Soil Moistureand Tree Water Content Over Boreal Forests Diego Bueso1, Maria Piles2, Alvaro Moreno2, Gustau Camps-Valls2, Frederic Frappart3, Jean-Pierre Wigneron4 and Philippe Ciais5, (1)Universitat de València, image processing laboratory, Castelló de la Plana, Spain, (2)Image

@InProceedings{DB21USAGU,

title={{Reconstruction of Seasonal Interaction of Soil Moistureand Tree Water Content Over Boreal Forests}},

author={Diego Bueso and Maria Piles and Álvaro Moreno and Gustau Camps-Valls and Frederic Frappart and Jean-Pierre Wigneron and Philippe Ciais},

Booktitle = {AGU American Geophysical Union},

Address = {New Orleans LA USA & Online, 13-17 December 2021, https://www.agu.org/Fall-Meeting},

month = {December},

year={2021},

Organization = {AGU},

project = {USMILE},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper805896.html},

}

 [Combining Big Data and Machine Learning to better quantify and scale plant trait and species diversity at very broad scales.](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper933484.html)

Combining Big Data and Machine Learning to better quantify and scale plant trait and species diversity at very broad scales. Alvaro Moreno1, Jose Adsuara2, Jordi Muñoz1, Emma Izquierdo3, Jens Kattge4, Benjamin Dechant5, Nuno Carvalhais6, Markus Reichstein4, Steven W Running7 and

@InProceedings{AM121USAGU,

title={{Combining Big Data and Machine Learning to better quantify and scale plant trait and species diversity at very broad scales}},

author={Álvaro Moreno and Jose Adsuara and Jordi Muñoz and Emma Izquierdo and Jens Kattge and Benjamin Dechant and Nuno Carvalhais and Markus Reichstein and Steven W Running and Gustau Camps-Valls},

Booktitle = {AGU American Geophysical Union},

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month = {December},

year={2021},

Organization = {AGU},

project = {USMILE},

url={https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper933484.html},

}

THIS IS ONLY POSTER SESSIONS WHERE SOME OF THE AGU ABSTRACTS

 [Advances in machine learning and deep learning for monitoring terrestrial ecosystems II Poster](https://agu.confex.com/agu/fm21/webprogrampreliminary/Session121623.html)

B004 Advances in machine learning and deep learning for monitoring terrestrial ecosystems Session ID#: 121623 Session Description: Machine learning (ML) and deep learning (DL) are enabling scientific breakthroughs of unparalleled scale for ecosystem monitoring. Increasing volume and variety of data 🡪 [*A Unified Vegetation Index for Quantifying the Terrestrial Biosphere*](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper805896.html) (805896)

<https://agu.confex.com/agu/fm21/webprogrampreliminary/Session121623.html>

 [Leveraging Deep Generative Models and Self-supervised Learning techniques in Earth Science Observations I eLightning](https://agu.confex.com/agu/fm21/webprogrampreliminary/Session122073.html)

IN027 Leveraging Deep Generative Models and Self-supervised Learning techniques in Earth Science Observations Session ID#: 122073 Session Description: Recent advances in remote sensing technologies and open data efforts have made large volumes of data available to Earth Scientists. Owing to 🡪 GHERARDO [Learning Granger Causal Feature Representations](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper857866.html) (857866)

<https://agu.confex.com/agu/fm21/webprogrampreliminary/Session122073.html>

 [Advancing our understanding of vegetation stress and its feedbacks with energy, water, and carbon fluxes III Poster](https://agu.confex.com/agu/fm21/webprogrampreliminary/Session121156.html)

B011 Advancing our understanding of vegetation stress and its feedbacks with energy, water, and carbon fluxes Session ID#: 121156 Session Description: Plants play a crucial role in mediating the interactions between the land and atmosphere. However, it is unclear how 🡪 [Reconstruction of Seasonal Interaction of Soil Moistureand Tree Water Content Over Boreal Forests](https://agu.confex.com/agu/fm21/webprogrampreliminary/Paper963834.html) (963834)

<https://agu.confex.com/agu/fm21/webprogrampreliminary/Session121156.html>