

<b>Title</b>	MARVEL DATAWEEK 2022 Workshop - The challenges of the extreme-scale multi-modal analytics applications
<b>Date</b>	25 <sup>th</sup> of May 2022
<b>Time</b>	13:30 – 15:00 CET
<b>Registration link</b>	<a href="https://data-week-2022.b2match.io/signup">https://data-week-2022.b2match.io/signup</a>
<b>Meeting link</b>	TBC – Provided by DATAWEEK organizers

To ensure we reach a broad audience, we would like to ask all partners to support the promotion of the workshop through social media, websites or via email. On the document attached you will find visual material, as well as some suggested posts to use when promoting the event.

We really appreciate your support and look forward to seeing you on the 25<sup>th</sup> of May!



**Towards an innovative, trusted and fair European data economy**



## Workshop

The challenges of the extreme-scale multi-modal analytics applications



**MAY 25, 2022**

13:30 - 15:00 CET

### **Registration page**

You can find the latest version of the agenda on the registration page:

[link to landing page](#)

The agenda as well as the rest of the information included on the registration page may be subject to updates as we get closer to the event, and we have feedback from the invited speakers and the DATAWEEK 2022 organisers.

## Social media

Please use the hashtags and mentions in social media publications so we can amplify and keep track of what's published:

**#MARVELDataWeek22Workshop**

**#DataWeek22**

Keep in mind to mention all projects that have been invited to participate in the event and also the DataWeek22 organizers. Due to the number of projects, and characters' constraints on Twitter, we recommend tagging/mentioning each project in the banner image.

Project	Twitter	LinkedIn
MARVEL	<a href="https://twitter.com/MARVELprojecteu">@MARVELprojecteu</a>	<a href="https://www.linkedin.com/company/marvel-project">MARVEL Project</a>
ExaMode	<a href="https://twitter.com/examode">@examode</a>	<a href="https://www.linkedin.com/company/examode">ExaMode</a>
OpenDR	<a href="https://twitter.com/OpenDR_EU">@OpenDR_EU</a>	<a href="https://www.linkedin.com/company/open-dr-h2020-research-project">OpenDR H2020 Research Project</a>
VesselAI	<a href="https://twitter.com/vessel_ai">@vessel_ai</a>	<a href="https://www.linkedin.com/company/vessel-ai">Vessel AI</a>

The following post is created originally for Twitter but feel free to adapt and use it on other social platforms, such as LinkedIn. Please make sure to also attach your preferred visual. Ideally, all posts should be accompanied by a visual:

🗣️ We are excited to announce our participation at the MARVEL #Dataweek22 Workshop - The challenges of the extreme-scale multi-modal analytics applications  
📅 25/05 ⌚ 13:30-15:00 📍 Virtual. More information and registration for free: [ibit.ly/TNUF](https://ibit.ly/TNUF)

#MARVELDataWeek22Workshop



## Email signature

Please add this HTML signature to your email account to promote the event in all your emails. Make sure to add this [hyperlink](https://ibit.ly/TNUF) to the image so people can click on it for more information available on the registration page.



24th May-9th June

**DATAWEEK** 22  
JOIN.LEARN.SHARE.GET VALUE

REGISTER NOW!

ONLINE / LOCAL / NAPLES  
**Towards an innovative, trusted and fair European data economy.**

BDV BIG DATA VALUE ASSOCIATION  
EUH40 EUROPEAN FEDERATION OF DATA DRIVEN INNOVATION HUBS

MARVEL Workshop  
The challenges of the extreme-scale multi-modal analytics applications

ExaMode OpenDRobotics VesselAI

MAY 25, 2022  
13:30 - 15:00 CET

**Website or newsletter blurb**

*Feel free to adapt and use this text to include in newsletter or website event sections*

**MARVEL Dataweek 2022 Workshop - The challenges of the extreme-scale multi-modal analytics applications**

[Project name] announces the participation in MARVEL's Dataweek 2022 Workshop - The challenges of the extreme-scale multi-modal analytics applications, which will take place virtually between 13:30 and 15:00 CET on the 25th of MAY 2022.


The aim of this workshop is to explore the latest EU research outcomes related to Extreme Data Analytics applications in a variety of sectors and environments and focuses on the key challenges addressed in each sector related to AI methodologies and algorithms, Data Management and orchestration, federation of data experimentation infrastructures and ecosystems. Ways each project addressed those challenges or ways they are planning to address them are going to be presented in combination with some brainstorming for common areas of interest. The audience will have the opportunity to participate, raise their concerns as well as provide suggestions for tackling those challenges.



More information about the agenda and speakers can be found on the registration page: [link here](#)

Attending this event is free of charge, however, registration is required.

The participating projects are: MARVEL, ExaMode, OpenDR and VesselAI

Know more about these projects:

	<p>MARVEL: Multimodal Extreme Scale Data Analytics for Smart Cities Environments</p> <p>MARVEL aspires the convergence of a set of technologies in the areas of AI, analytics, multimodal perception, software engineering, HPC as part of an Edge-Fog-Cloud Computing Continuum paradigm that goes beyond traditional Big Data, conventional architectures heavily capitalizing on distributed resources and heterogeneous data sources in smart city environments, while implementing privacy preservation techniques at all data modalities and at all levels of its architecture. The ultimate aim is to support data-driven real-time application workflows and decision making in modern cities, showcasing the potential to address societal challenges very effectively, from increasing public safety and</p>
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	<p>security to analysing traffic flows and traffic behaviour in the cities of Trento and Malta.</p>
 <p>The logo for ExaMode features the word "ExaMode" in a large, black, sans-serif font. To the left of the text, there are three circular icons: a black one at the top, a blue one with a white document icon in the middle, and a purple one with a white brain-like pattern at the bottom. Lines connect these icons to the 'x' in "ExaMode".</p>	<p>ExaMode: Extreme-scale Analytics via Multimodal Ontology Discovery &amp; Enhancement.</p> <p>Exascale volumes of diverse data from distributed sources are continuously produced. Healthcare data stand out in the size produced (production is expected to be over 2000 exabytes in 2020), heterogeneity (many media, acquisition methods), included knowledge (e.g. diagnosis), and commercial value. The supervised nature of deep learning models requires large labeled, annotated data, which precludes models to extract knowledge and value. ExaMode solves this by allowing easy &amp; fast, weakly supervised knowledge discovery of exascale heterogeneous data, limiting human interaction.</p>
 <p>The logo for Open Deep Robotics features the word "Open" in a large, blue, sans-serif font, with "Deep" in a smaller, blue, sans-serif font to its right. Below "Open" is the word "open" in a smaller, blue, sans-serif font. To the right of "open" is the word "Robotics" in a large, blue, sans-serif font.</p>	<p>OpenDR: Open Deep Learning toolkit for Robotics</p> <p>The aim of OpenDR is to develop a modular, open, and non-proprietary toolkit for core robotic functionalities by harnessing deep learning to provide advanced perception and cognition capabilities, meeting in this way the general requirements of robotics applications in the applications areas of healthcare, agri-food, and agile production. The term toolkit in OpenDR refers to a set of deep learning software functions, packages, and utilities used to help roboticists to develop and test a robotic application that incorporates deep learning. OpenDR will provide the means to link the robotics applications to software libraries (deep learning frameworks, e.g., Tensorflow) and to link it with the operating environment (ROS). OpenDR will develop, train, deploy and evaluate deep learning models that improve the technical capabilities of the core technologies beyond the current state of the art. It will enable a greater range of robotics applications that can be demonstrated at TRL 3 and above, thus lowering the technical barriers within the prioritised application areas. OpenDR aims to an easily adopted methodology to adapt the provided tools in order to solve any robotics task without restricting it to any specific application.</p>



VesselAI aims at realising a holistic, beyond the state-of-the-art AI-empowered framework for decision-support models, data analytics and visualisations to build digital twins and maritime applications for a diverse set of cases with high impact, including simulating and predicting vessel behaviour and manoeuvring (including the human factor), ship energy design optimisation, autonomous shipping and fleet intelligence. Designing and developing a high-performance, scalable and sustainable decision-making framework for data-driven digital twins includes and requires innovation diffusion and exploitation of network dynamics, and the adaptability to the stakeholders' needs. In this direction, VesselAI will bring a diverse set of pilot scenarios to the centre of the process, to test and improve the initial proposition, and provide a truly innovative solution that makes extreme-scale decision analysis, using novel data engineering and machine learning techniques, a native engineering characteristic

### ***Event mailout***

*Feel free to adapt and use this text for outreach via e-mail/ mailing lists.*

**Subject:** Invitation to the MARVEL Dataweek 2022 Workshop - The challenges of the extreme-scale multi-modal analytics applications.

We cordially invite you to join the MARVEL Dataweek 2022 Workshop - The challenges of the extreme-scale multi-modal analytics applications, which will take place virtually on May 25<sup>th</sup> between 13:30 and 15:00 CET.

**Register now:** [link here](#)

Organised by the MARVEL project, and with the support of [ExaMode](#), [OpenDr](#) and [VesselAI](#) projects, the workshop aims to explore the latest EU research outcomes related to Extreme Data Analytics applications in a variety of sectors and environments and focuses on the key challenges addressed in each sector related to AI methodologies and algorithms, Data Management and orchestration, federation of data experimentation infrastructures and ecosystems.

More information about the agenda and speakers can be found on the registration page: [link here](#)