



MODELLING, DATA ANALYTICS AND AI IN ENGINEERING

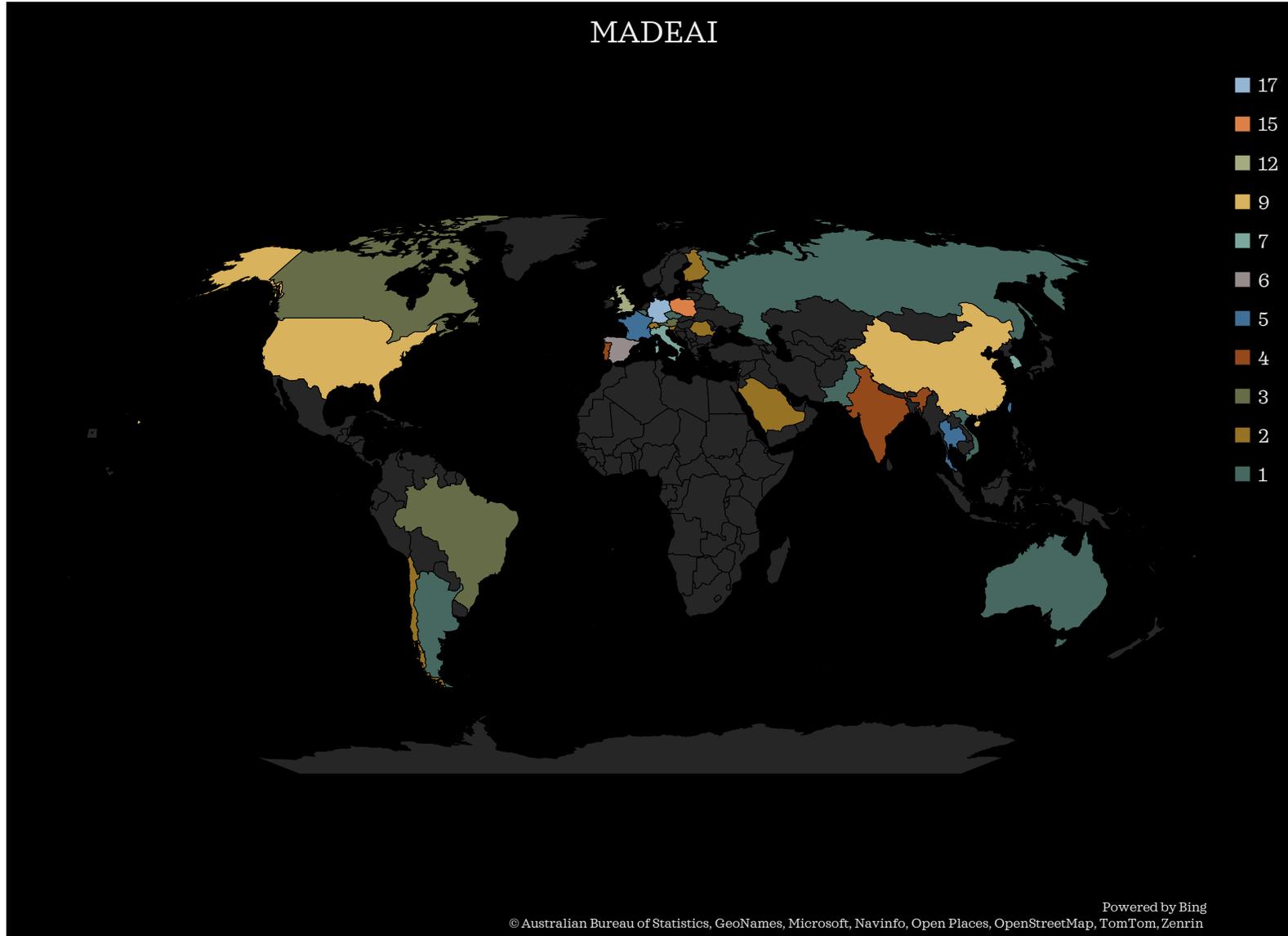
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MADEAI GOAL

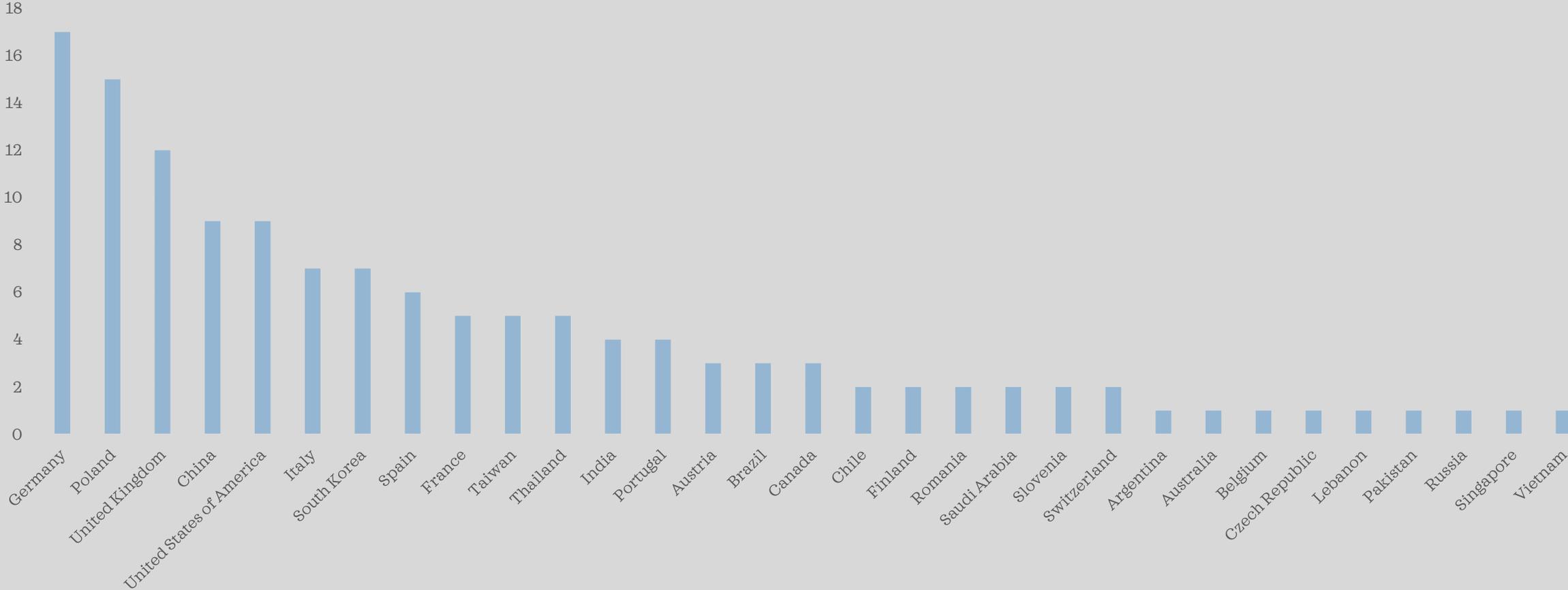
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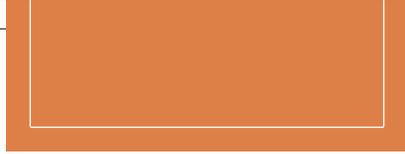
- In today's rapidly evolving science and technology landscape, **modelling, data analytics, and artificial intelligence (AI) play pivotal roles in reshaping problem-solving strategies across diverse industrial sectors.** From aerospace and automotive to chemical, construction, energy, healthcare, materials, and transportation, these transformative technologies address complex challenges and drive innovation.
- MadeAI : brings **academic** researchers and **industrial** experts from the global communities of **computer science, engineering,** and **mathematics** converge to exchange ideas and explore **the fusion of modelling, data analytics, and AI in engineering.**
- The **intersections** of modelling, data analytics, and AI are deeply rooted in their mathematical and computational frameworks.
- These disciplines are often studied in **isolated silos** within engineering and science programs, lacking extensive interdisciplinary collaboration.
- To unlock their full potential as breakthrough solutions at the engineering forefront, integration using a **holistic systems approach** becomes imperative.



Countries

Countries





PLENARY SPEAKERS



Prof. Wing K. Liu

Department of Mechanical
Engineering

Northwestern University, USA

July 7th



Prof. Shi-Min Hu CAS

Department of Computer
Science

Tsinghua University, China

July 8th



Prof. Peter Grindrod CBE

Mathematical Institute

University of Oxford, UK

July 9th

Conference Programme

Day 1 { July 7th }

- Sessions starts at **09h00** followed by a coffee-break @ 10h40
- **11h00:** Plenary Session by **Wim K. Liu** @ Auditorium
- **Lunch break** from 13h10
- **16h10:** Coffee-Break

Day 2 { July 8th }

- Sessions starts at **09h00** followed by a coffee-break @ **10h20**
- **10h40:** Plenary Session by **Shi-Min** @Auditorium
- **Lunch break** from 12h50
- Departure from the Venue for the **Social Program**

Conference Program

Day 3 { July 9th }

- Sessions start at **09h00** followed by coffee-break @ 10h20;
- **Lunch break** from 12h20
- **14h00:** Plenary Session by **Peter Gringrod** " @ Auditorium
- Afternoon sessions start at **14h50**
- Coffee-break @ 16h30;

MADEAI, 08th July 2025

*Half Day Tour to Douro
and dinner on a Port Wine Farm*



14h30 - Departure from Cupertino Foundation by bus. We will go directly to the heart of Douro Valley where we will embark the traditional Rabelo Boat to enjoy a 01-hour cruise, admiring the best sceneries provided by the Douro landscapes.

After this we will go down the river following the **road N222**, considered to be the **best roads with a fantastic views**.

Arriving to **Pacheca Wine Estate**, we will make a visit and learn all about the Port wine. Dinner will be served accompanied by its tasteful wines.

Return to Porto after dinner - **drop off at Casa da Musica/Boavista**.







WELCOME TO PORTO

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Fun fact: Porto's Livraria Lello is considered one of the most beautiful bookstores in the world and is rumored to have inspired J.K. Rowling's vision of Hogwarts.

Nestled along the Douro River in northern Portugal, **Porto is the second-largest city in Portugal**. With a population of around 230,000, it's a city large enough to offer exciting things to see and do, yet small enough to be easily explored on foot.

Porto boasts a historic city center, a **UNESCO World Heritage Site** famed for its stunning medieval architecture, and picturesque riverfront, boarded by the "rabelo" boats.

Visitors can explore the historic **Ribeira** district, marvel at the iconic **Dom Luís I Bridge**, and enjoy a leisurely stroll through the vibrant **Bolhão Market** or marvel the world-famous **ceramic tiles** around the city in S. Bento train station or Carmo church.

Porto is also famous for its namesake win, **Port wine**, produced in the nearby Douro Valley.



What to eat around Porto?

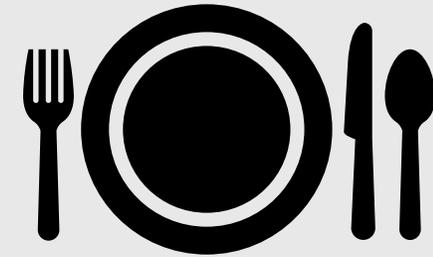
One of the region's iconic specialties is the **Francesinha**, a decadent sandwich filled with layers of meats, covered in melted cheese and a rich beer-based sauce. **Seafood** is also a highlight, with **grilled fish** such as sardines and **bacalhau** (salted cod) being local favorites. For dessert, the famous **Pastéis de Nata**, custard tarts with a crispy, caramelized exterior, offer a sweet end to any meal.



- Participants who selected and paid for the **lunch option during the registration period**, may have lunch in the Venue's Restaurant.
- In check-in you were given a **voucher for lunch**, that you must show when entering the Restaurant.
- **Keep your voucher for lunch on July 2nd and 3rd.**
- On **July 5th** – since sessions will take place only in the morning – **no lunch reservations have been made.**

- The **Venue restaurant cannot accommodate more reservations for lunch** than the ones that have already been placed.
- We offer some **alternative suggestions** we might want to consider for lunch during MADEAI conference.

Where to have lunch during MadeAI?



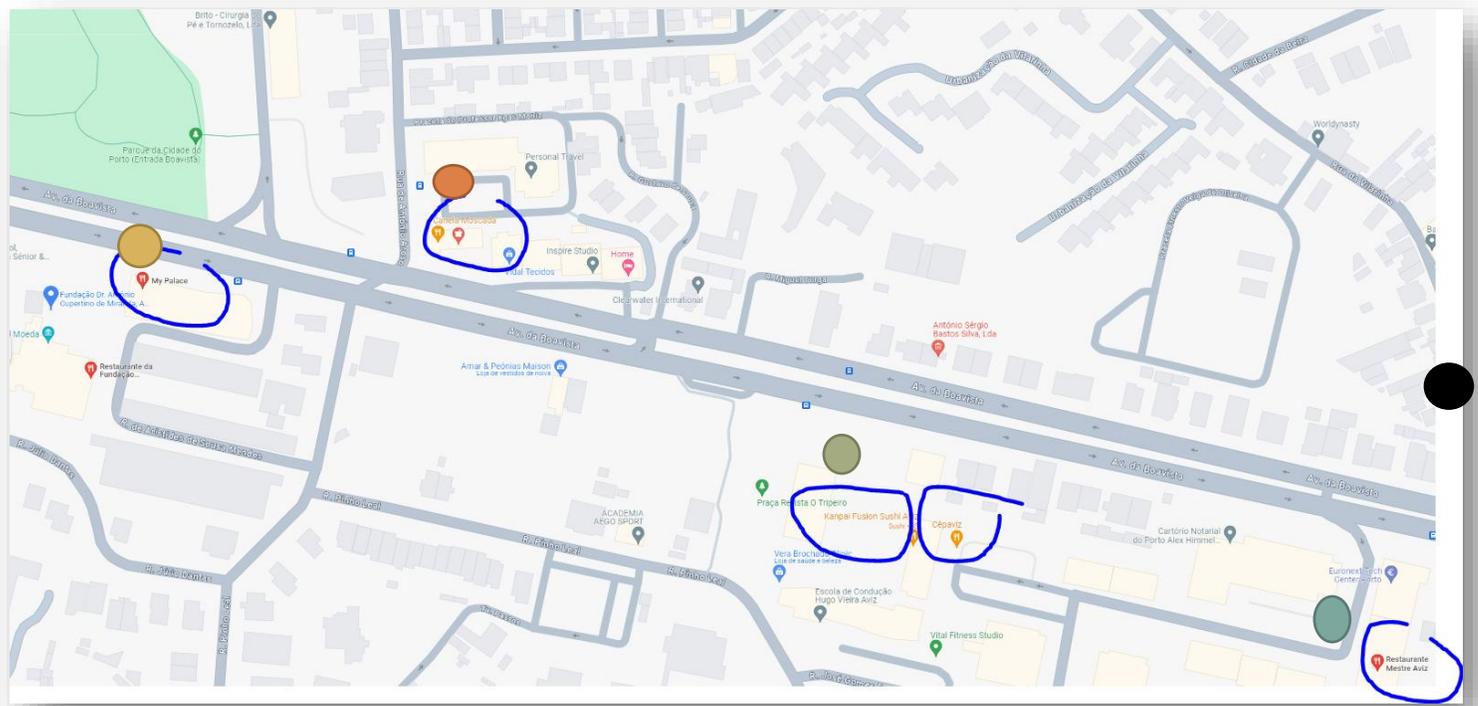
 **My Palace** (1 min walking) (restaurant)

 **Canela Moscada** (2 min walking); (light snacks)

 **Kanpai Fusion Sushi**
Aviz (10 min walking)

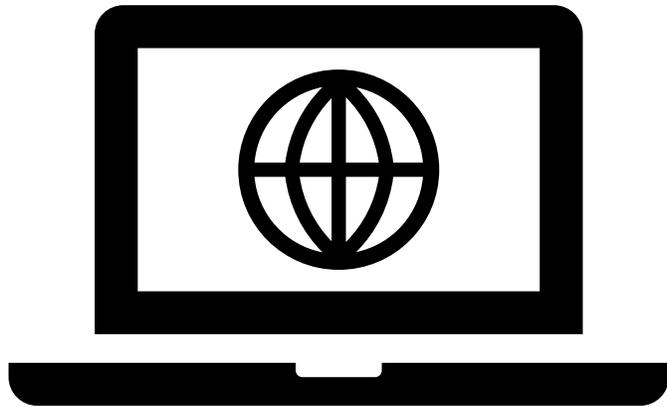
 **Restaurant Mestre Aviz** (10 min walking)

 **Tourigalo** (15 min walking)



Where to lunch?





C. Congressos

(no password required)

How to connect
to wifi.



THANK YOU

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Conference Chairs



Prof. Chenfeng Li FLSW
Swansea University, United Kingdom



Prof. Francisco .M.
Andrade Pires
University of Porto (FEUP), Portugal