7th Edition

**NEMO** **S**UMMER **S**CHOOL **S**ERIES

nemo.omilab.org

**Vienna**
**19 - 30 July**
**2021**

*BECOME A DIGITAL LEADER!*

universität wien

# CALL FOR PARTICIPATION
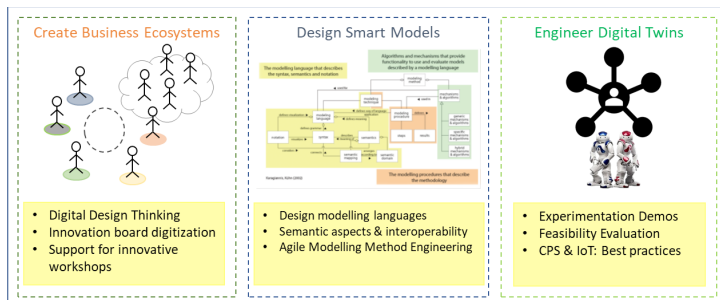
Erasmus+

## NEMO Summer School Series

The NEMO summer schools focus on the design and implementation of Enterprise Digital Twins and Ecosystems based on conceptual modelling methods. They enable the design of semantically rich diagrammatic models that are both human-understandable and machine-processable, while providing services for analyzing models and interoperating with open digital environments. Conceptual models can thus be used as the knowledge platform of an organization and their value can be co-created by flexible collaboration between digital engineers and stakeholders.

Join the NEMO Summer School to learn how conceptual modelling supports innovation, design and engineering for digital business ecosystems!

Working in and for digitized organizations where smart devices, digital artefacts, robots, data streams and connectivity are ubiquitous, you will be faced with challenges pertaining to human resources, process lifecycles, business or regulatory rules. NEMO provides a vertical overview across different application domains to prepare you for all dimensions of digitization.

## Framework and Topics

The Digital Innovation environment of OMiLAB enables experimentation and training for both conceptualization and engineering activities. Stakeholders from a multi-disciplinary background are supported to develop innovative ideas as digital business models, to materialize them in proofs-of-concept and to evaluate their feasibility in a laboratory setting.



| Create Business Ecosystems | Design Smart Models | Engineer Digital Twins |
| --- | --- | --- |
| • Digital Design Thinking<br>• Innovation board digitization<br>• Support for innovative workshops | • Design modelling languages<br>• Semantic aspects & interoperability<br>• Agile Modelling Method Engineering | • Experimentation Demos<br>• Feasibility Evaluation<br>• CPS & IoT: Best practices |

**Approach:** Conceptual Modelling, Metamodelling, Digital Twins

**Technology**: ADOxx   Olive   BEE-UP   CoChaCo   Visual Studio

Digital Innovation Environment of OMiLAB

The summer school provides a highly interactive experimental environment, where students and teachers focus on conceptual modelling for digital innovation ecosystems, covering topics such as:

- Foundations of Conceptual Modelling
- „Smart Models" for humans and machines
- Concepts and technologies for Digital Ecosystems
- Digital Design Thinking
- Enterprise Digital Twins
- Cross-Cutting Issues

## Previous Editions



## OMiLAB NPO

OMiLAB
www.omilab.org

*Vision:* an active global community for conceptual modelling that benefits from open artefacts.

*Openness:* to all those interested, either as individuals or as institutions. It acts as an ecosystem where participants can bring in ideas related to conceptual modelling and engage in the exploration process.

*Laboratories:* dedicated research and experimentation spaces for modelling method engineering equipped with tools to explore method creation and design, experiment with method engineering and deploy digital innovation.

*Benefits:* dialogue between digital innovators and digital engineers, with amplification instruments which leverage the impact of the activities performed.

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## Who is the target group?

Master and PhD-students enrolled in programs of
- Computer Science
- Business Informatics
- Information Systems
- Business Administration
- Industrial Management
- Service Science

## What is offered?

Two weeks where you can:
- Participate in lectures provided by international experts in the field
- Work in multicultural teams to create practical solutions to real-world problems
- Make your first steps in modelling Digital Twins
- 6 ECTS
- Network in an international environment both with peers and professors
- Network with industry partners and sponsors
- Enjoy cultural events and the beautiful surroundings of Vienna, Austria

## What is expected of you?

- To be proficient in English
- To have basic programming skills
- To be interested in Enterprise Information Systems
- To be keen to meet peers from across the world
- To be interested in working with novel technologies and concepts

## Where?

University of Vienna
Faculty of Computer Science
Währingerstraße 29
1090 Vienna, Austria

## When?

Start: July 19th, at 9 a.m.
End: July 30th, at 5 p.m.
Arrival: July 18th, whole day
Departure: July 31st, whole day

## How to register?

Online Registration: http://nemo.omilab.org/
Necessary documents: Registration form
CV (Europass format, in English)
A motivation and a recommendation letter
Registration end: April 30th, 2021

## What does it cost?

**Package I: 1000 Euro**
Accommodation in
4 bed room

**Package II: 1250 Euro**
Accommodation in
2 bed room

**Package III: 1500 Euro**
Accommodation in
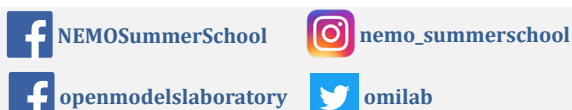single room

Each individual package includes:
**participation fee, accommodation, breakfast, coffee breaks, lunch, course materials and one outdoor event.**

## Contributing Institutions & Sponsors

*A selection from previous editions.*

## Social Media

 NEMOSummerSchool
 nemo_summerschool
 openmodelslaboratory
 omilab

*Like and follow for updates and news.*

**CONTACT:**
NEMO Summer School Team
University of Vienna
Fac. of Computer Science

Währinger Str. 29
1090 Vienna, Austria

E-Mail: events@omilab.org
Web: http://nemo.omilab.org/

SCAN ME