

LDAC

• LDAC2012 Ghent

• LDAC2014 Helsinki

• LDAC2015 Eindhoven

• LDAC2016 Madrid

• LDAC2017 Dijon

• LDAC2018 London

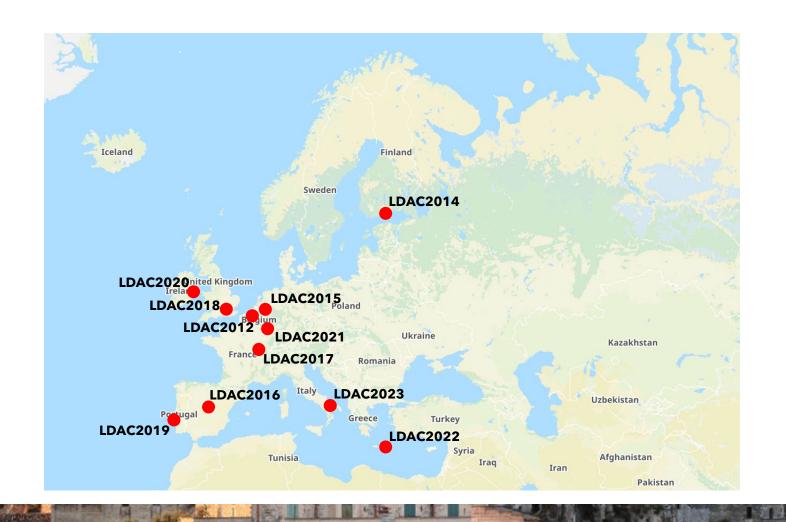
• LDAC2019 Lisbon

• LDAC2020 Dublin

• LDAC2021 Luxembourg

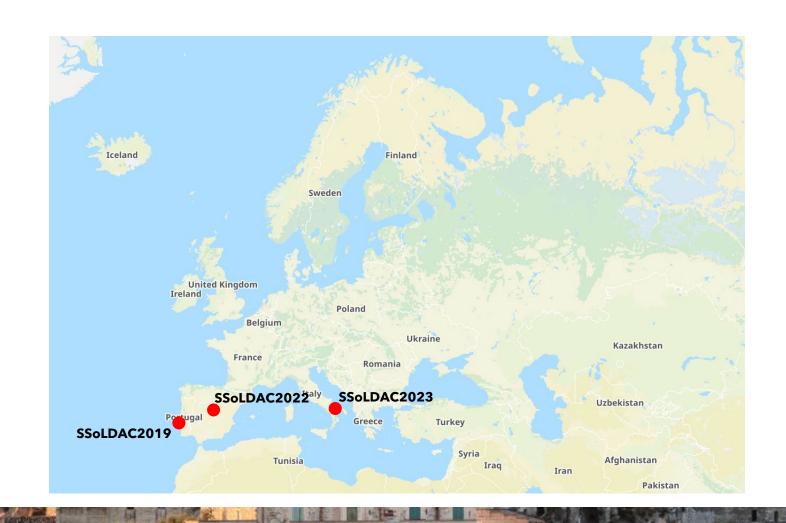
• LDAC2022 Hersonissos

• LDAC2023 Matera

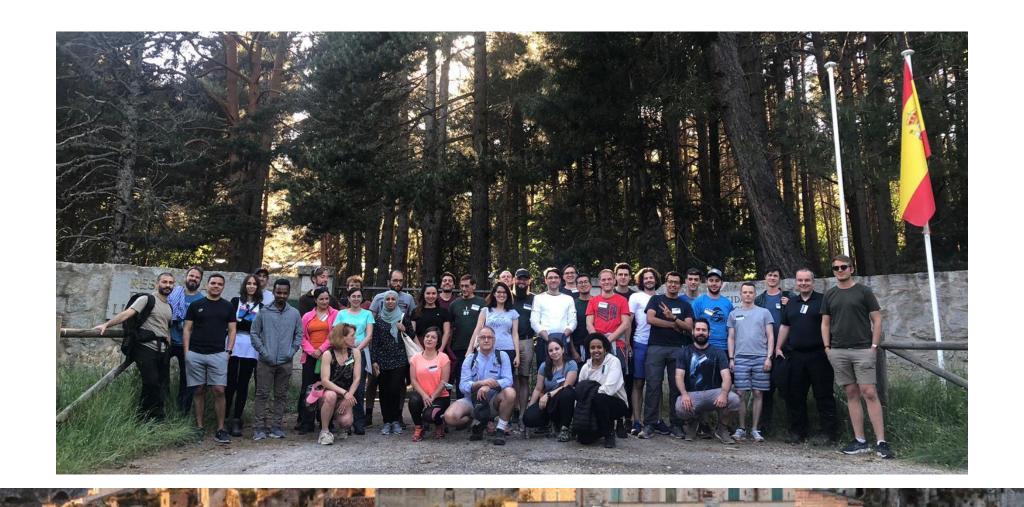


SSoLDAC

- SSoLDAC2019 Lisbon
- SSoLDAC2022 Cercedilla
- SSoLDAC2023 Matera



SSoLDAC2022 Cercedilla



SSoLDAC2022 Cercedilla

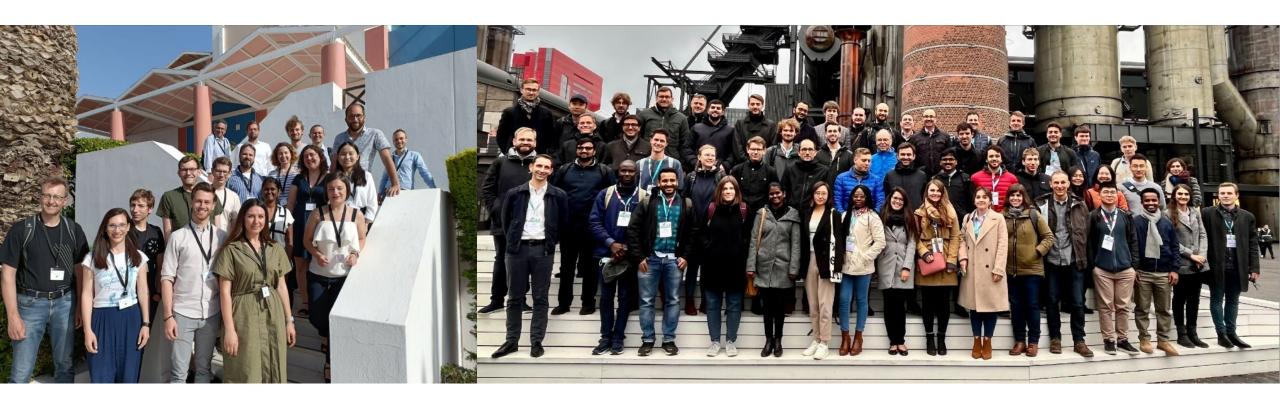




Strong connection with the LDAC WS

LDAC2022 Hersonissos

LDAC2021 Belval, Luxembourg



SSoLDAC2023 Statements

- Emphasis on intensive student-student and student-group interaction
 - Hence limited number of places (40 students)
- Short, intensive academic sessions covering a wide range of topics
- Hackathon
- Social program, because having fun and building a community is explicitly part of this summer school

SSoLDAC2023

WhatsApp-groep



SSoLDAC2023

Sunday 11 June 20:00-22:30 | Welcome cocktail

Monday 12 June			
08:30-09:00	Registration at Casa delle Tecnologie Emergenti (CTE) in Matera		Reception desk
09:00-09:30	Opening session	J.Werbrouck, M.Senthilvel, A.Donkers	Conference room on 4th floor (CR4)
09:30-11:00	Lecture session: Basics of Linked Data	P.Pauwels	CR4
11:00-11:30	Coffee break		
11:30-12:30	Lecture session: Ontologies	M.Bonduel	CR4
12:30-13:00	Hackathon: Introducing the challenges	Champions of challenges	CR4
13:00-14:30	Lunch break and hackathon group formation		
14:30-15:30	Lecture session: ETL procedures & querying	V.Alexiev	CR4
15:30-16:30	Lecture session: Interaction and querying	M.H.Rasmussen	CR4
16:30-17:00	Coffee break		
17:00-19:00	Ready to rumble: the hackathon starts!		Rooms 23, 27, 29, 31
19:00-20:30	Guided tour to the Sassi		

Tuesday 13 June			
	Opening session	J.Werbrouck,	
09:00-09:30		M.Senthilvel,	CR4
		A.Donkers	
09:30-10:30	Keynote session: Shape and Semantics for urban	M.Mortara	CR4
	modelling – the role of geometry in city digital twins		
10:30-11:00	Coffee break		
11:00-12:00	Lecture session: Advanced ontologies and reasoning	M.Poveda-	CR4
		Villalón	CN4
	Lecture session: Validation using SHACL	M.Senthilvel	Room 27

Program

12:00-13:00	Lecture session: Heterogeneous knowledge graphs	M.Argyris	CR4
	Lecture session: Building products and properties	M.Bonduel	Room 27
13:00-14:30	Lunch		
14:30-16:30	Hackathon		Rooms 23, 27, 29, 31
16:30-17:00	Coffee break		
17:00-23:00	Hackathon with dinner		Rooms 23, 27, 29, 31

	Wednesday 14 June					
09:00-09:30	Opening session	J.Werbrouck, M.Senthilvel, A.Donkers	CR4			
09:30-10:30	Hackathon	•	Rooms 23, 27, 29, 31			
10:30-11:00	Coffee break					
11:00-12:00	Lecture session: Geospatial linked data	E.Folmer	CR4			
	Lecture session: Frontend development using linked data	J.Werbrouck, A.Donkers	Room 27			
12:00-13:00	Lecture session: Federated knowledge graphs	J.Werbrouck	CR4			
	Lecture session: Sensors and linked building data	A.Donkers	Room 27			
13:00-14:30	Lunch	•				
14:30-16:30	Hackathon		Rooms 23, 27, 29, 31			
	bSDD session		CR4			
16:30-17:00	Coffee break					
17:00-19:00	Presentations	Hackathon groups	CR4			
19:00-19:30	Closing session	J.Werbrouck, M.Senthilvel, A.Donkers	CR4			
20:00-23:00	Dinner at Ristorante Pizzeria Annunziata 1735					

SSoLDAC2023 Keynote

Michela Mortara





Shape and Semantics for urban modelling - the role of geometry in city digital twins

This talk will describe the current computer graphics approaches to construct a digital 3D representation of an urban context from real data. The geometric model is a set of undifferentiated elements, but represents specific urban entities with attributes, relations, functionality and meaning. Identifying the salient elements and linking semantic information to their geometric counterpart leverages automatic reasoning (multi-disciplinary optimization, monitoring, planning, simulation, prediction) on the city and its processes, as far as knowledge about land and urban morphology is concerned. The main focus will be on the acquisition of real 3D data, the reconstruction process and the semantic annotation of the 3D digital model. Examples of use cases that the geometric layer of the urban digital twin can answer to will be discussed from ongoing projects with Matera and Catania. Challenges and future directions will conclude the talk.

SSoLDAC2023 Lecturers

Mathias Bonduel María Poveda Villalón Manos Argyris Pieter Pauwels Madhumitha Senthilvel











Erwin Folmer Vladimir Alexiev Jeroen Werbrouck Mads Holten Rasmussen Alex Donkers









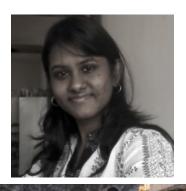


SSoLDAC2023 Organizers

Pieter Pauwels



Madhumitha Senthilvel



María Poveda Villalón



Jeroen Werbrouck



Walter Terkaj



Alex Donkers



SSoLDAC2023 Local organizers

Lucio Tommaso de Paolis



Walter Terkaj



Ugo Erra



Sara Arlati



SSoLDAC2023 Participants

Australia

Belgium

Croatia

Denmark

France

Germany

Italy

Luxembourg

Norway

Palestine

Portugal

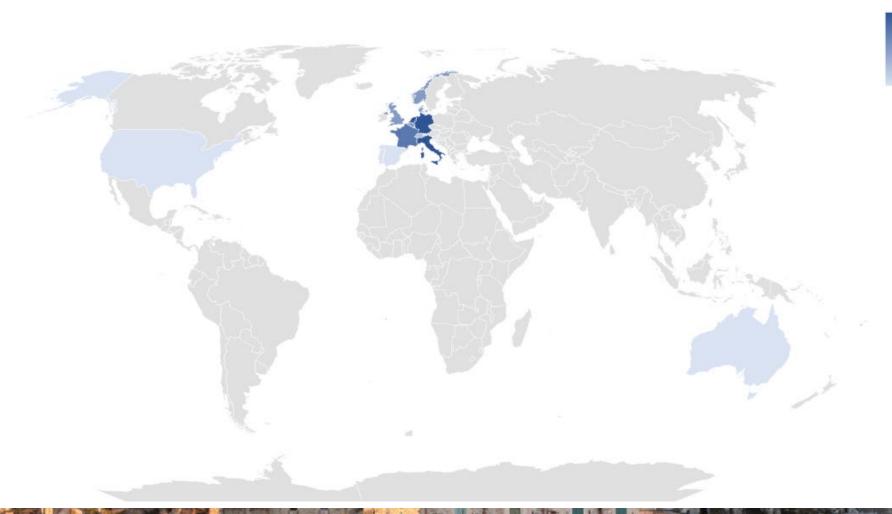
Spain

Switzerland

The Netherlands

United Kingdom

United States



SSoLDAC2023 Diamond sponsors

- × Free service from buildingSMART for distributing data dictionaries describing the built environment.
- × Common reference library with definitions and attributes to enrich IFC models and IDS requirements.
- × Neutral solution to drive the digital transformation of the AECO industry.



SSoLDAC2023 Diamond sponsors

Pallas is the new medical isotope reactor that will replace the aging High Flux Reactor (HFR) in Petten. With the arrival of the PALLAS-reactor, the Netherlands can continue to help millions of people over the next 50 years. PALLAS focuses on the production of isotopes for diagnosis and therapy and nuclear research.



SSoLDAC2023 Gold sponsors















SSoLDAC2023 Organizational support























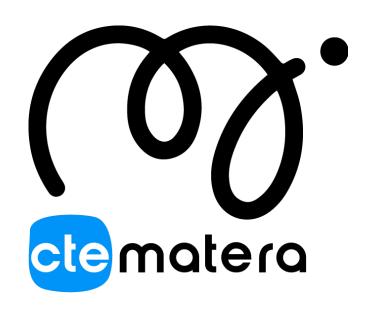






SSoLDAC2023 Our host

Special thanks to the Casa delle Tecnologie Emergenti in Matera for hosting us



Don't forget to explore Matera!





