

International Online Summer School on Digitalisation of Built Environment

13-21 August 2026 . Fully online . Free of charge . Certificate issued

FORMAT

Online . Free of charge,
Sign up for individual modules
or full programme

MODULE

2h lecture + 15min break + 2h
group work

AM SESSION

8:15-12:30

PM SESSION

13:45-18:00

LEARNING OUTCOMES

- Digital twins & AI-based occupant modelling
- Python tools for data analysis & system modelling
- Smart microgrids & energy storage for buildings
- Anomaly detection & data-driven control in buildings
- Ethical & societal dimensions of digitalisation
- Business & digital transformation perspectives

TARGET AUDIENCE & CERTIFICATION

- PhD students
- Advanced master's students
- Early-career researchers
- Professionals in digitalisation & built environment
- Certificate issued (for home institution accreditation)

PROGRAMME

DATE		TOPIC	SPEAKER
Thu Aug 13	OPEN	Welcome & organisation 13:30-13:45	<i>Xu & Oechtering, KTH</i>
	PM	Smart microgrids for sustainable buildings	<i>Qianwen Xu, KTH</i>
Fri Aug 14	AM	Data driven simulation for control or anomaly detection in smart buildings	<i>Magnus Jansson, KTH</i>
	PM	Buildings as energy storage hubs for flexible sector coupling	<i>Saman Nimali Gunasekara, KTH</i>
Mon Aug 17	AM	Technology as a tool not a solution - Facilities Management example	<i>Carmel Margret Lindkvist, NTNU</i>
	PM	Integration of AI-based occupant prediction model with digital twins	<i>Farzin Golzar, KTH</i>
Tue Aug 18	AM	Sustainability challenges & opportunities of digitalisation in buildings	<i>Tove Malmqvist Stigell, KTH</i>
	PM	Value sensitive design for ethically informed & socially sustainable technology	<i>Barbro Fröding, KTH</i>
Wed Aug 19	FULL	Hands-on workshop: open-source energy management toolbox "batem"	<i>Stephane Ploix, INP Grenoble</i>
Thu Aug 20	AM	Digital maturity & data-driven decision-making	<i>Agnieszka Zalejska Jonsson, KTH</i>
	PM	Digital transformation in business networks	<i>Malena Havenvid, KTH</i>
Fri Aug 21	AM	Introduction to Privacy for Smart Buildings	<i>Tobias Oechtering, KTH</i>
	CLOSE	Closing ceremony 12:30-12:45	<i>Oechtering & Xu, KTH</i>

REGISTRATION DEADLINE . 12 August 2026

kth.se/form/dig-it-lab-summer-school

digitlab.kth.se . Free . Individual modules or full programme welcome

Qianwen Xu qianwenx@kth.se **Tobias Oechtering** oech@kth.se



Scan to register