

International Software Architecture PhD School (ISAPS)

Program

Each day of the PhD school is devoted to one or two cutting-edge topics that will be presented by a prominent member of the international community with that topic-specific expertise (see table below). In the mornings, the daily topic will be elaborated in the form of a highly-interactive lecture and related open discussions. While experts in the field can immediately recognize that these five topics are the most appealing and debated (hence we expect great attendance as in previous years), they also provide an incremental learning path.

	Monday	Tuesday	Wednesday	Thursday	Friday
9:00	—	Architecture-Implementation alignment	The role of architecture metrics	The C4 model for visualizing software architecture	The role of the architect
	<i>Opening (10:00)</i>				
10:15	<i>Coffee break</i>				
10:45	Playing the Game on Making Architecture Decisions	Architecting challenges in the era of microservices and agile	Continuous architecture	Architecture Design Records in practice	Architecture by and with autonomous teams
12:00	<i>Lunch break</i>				
13:30	Playing the Game on Making Architecture Decisions	Hands-on sessions on cases from industry or public sector			
15:00	<i>Coffee break</i>				
15:30	Hands-on sessions on cases from industry or public sector	Hands-on sessions on cases from industry or public sector			<i>Retrospective</i>
16:30		Cases daily summary			
17:00	<i>Welcome party (on-site participants only)</i>		<i>Boat trip (on-site participants only)</i>		

In the afternoons, the students will work together with the architects on a number of cases drawn up by industry and/or the public sector. The hands-on sessions will be conducted in groups composed of an architect, a moderator (senior academic), and 5-6 PhD students. The architects are the problem owners and will work together with the students, while the moderators are independent group members who provide guidance and advising. The theory from each morning lecture will be applied to the case each afternoon, therefore solving one problem each day. At the end of each day, a retrospective session will

be organized where each group presents their work to the other groups to inform them but also to facilitate cross-fertilization of ideas among groups.

The morning lectures will take place in the main Oort lecture hall while the cases will be worked out in the offices on the same floor. The participants will work on the cases from the point of view of their own research and practice in break-out groups in order to put the theoretical knowledge into practice. The output of this hands-on work will consist of innovative solutions to technical problems and a research agenda to elaborate on complex problems in the long term. The PhD students will get the opportunity to work on real industrial problems, while practicing architects will enrich their knowledge with state-of-the-art theories. We also expect new collaborations to spark between research groups and the corresponding organizations from the private and public sector.

Remote Participation

The format of iSAPS 2023 will be in-person-first. That means we expect all participants to join in person, but we will accommodate exceptional situations (i.e., outside one's control) that prevent the person from traveling and attending the conference. For those participants, the following applies.

For the morning lectures, remote participants can join the live lectures and interact via video conference. If that is not possible (e.g., due to timezone difference), students will still have access to the slides. For the hands-on sessions, the allocated slot (13:30–17:00 CEST) translates into time slots of other time-zones that, albeit not ideal in all cases, allow remote participants to adjust their work schedule for the week of the event without great disruption to their sleep schedule. The most important aspect for remote participants is that they interact with on-site participants, promoting a more interactive session than a solely remote team. The moderator will be tasked with setting up a video call to connect the remote participant.