

# AdvanceAEC Autumn School 2022 > Workshops

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11.10.22

Nr.	Partner	Field	Topic	Nr. of Participants
1	<b>Cluster of Excellence IntCDC</b> Institute for Social Sciences, University of Stuttgart	Social Sciences	Ways of Robust Automation	5 to 10
2	<b>Cluster of Excellence IntCDC</b> Institute for Computational Design and Construction (ICD), University of Stuttgart; Visualization Research Center (VISUS), University of Stuttgart	Robotics	Instructive Human Robot Collaboration and Multi-Actor task sharing in timber prefabrication	up to 16
3	<b>SFB ACD</b> TU Wien	Interface architecture/ informatics	From point cloud to materialized point structure: Creation of 3D printed ceramic objects designed via manipulation of 3D point-clouds encoded as 2D images.	10 to 20
4	<b>SPP 2187</b> Institute of Concrete Structures, Ruhr University Bochum	Concrete design	Freely shaped reinforced concrete design	8 to 16
5	<b>SFB/TRR 280</b> TU Dresden; RWTH Aachen	Carbon concrete structures	Botanical and mathematical principles for inspiring design of carbon fibre reinforced concrete	20
6	<b>TRR 277</b> TU Braunschweig; TU München	Manufacturing	"Additive Manufacturing in Construction: In situ Retrofitting Using AM with Mobile Robots"	5-10
7	<b>SFB 1244</b> University of Stuttgart	CRC 1244 results about adaptive skins and structures.	participation in the Conference „Adaptive Skins and Structures for the Built Environment of Tomorrow“	ca. 40
8	<b>NCCR Digital Fabrication</b> ETH Zürich	Computation	COMPAS - A framework for computational research in architecture and structures	10 /40
9	<b>Cluster of Excellence IntCDC</b> Institute for Computational Design and Construction (ICD), University of Stuttgart	Machine Learning	ML meets AEC / Machine Learning meets Architecture, Engineering and Construction	15 to 25