ARCHITECTURE AND COMPUTATIONAL DESIGN

Politecnico di Torino

MACC MASTER ARCHITECTURE CONSTRUCTION AND CITY

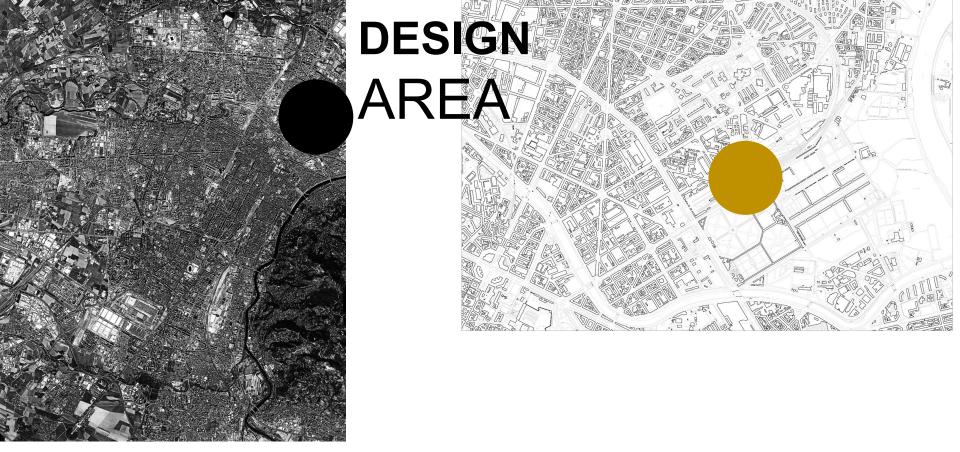
2023/24

Architectural and urban design

NICOLA MARZOT | MARTINA CRAPOLICCHIO

Architectural drawing

MARCO CAPRANI | SARA GIAVENO | MICHELE CAMMARANO



SCALO VANCHIGLIA

TORINO

WHERE?



0.540 0,533 0,516 0,302 0.548 0,481 0.575 0,321 0.339 0,611 0.425 0,619 0.521 55. 網 0,579 M M M M 0.272 0,282 0,367 0,398 0.309 0,634 0.151 激性凝焦 W. 0,335 0,349 0,541

DEVELOPING AN URBAN PROJECT

BASED ON DATA PROCESSING

WHAT?

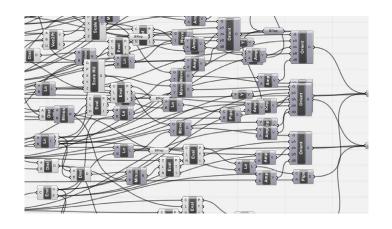


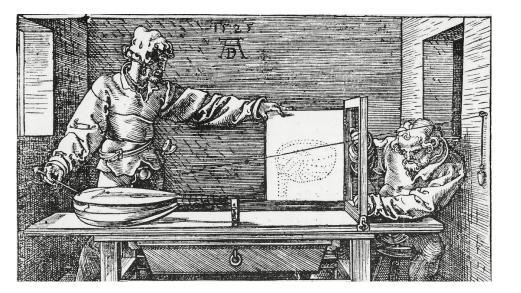
ALGORITHMIC DESIGN

MASTERING COMPUTATIONAL TOOLS

COMPUTER AS A LABORATORY
A.I AS EXPLORATIVE TOOL
3D MODELING AND SURFACING
FLOWS AND GRADIENTS

VECTOR FIELDS, ATTRACTORS, AND MORE...





CRITICAL DRAWINGOPERATIVE DRAWINGS

DRAWING FROM MODELS

DIGITAL DRAWINGS

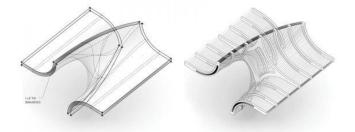
HATCHES AND MORPHING

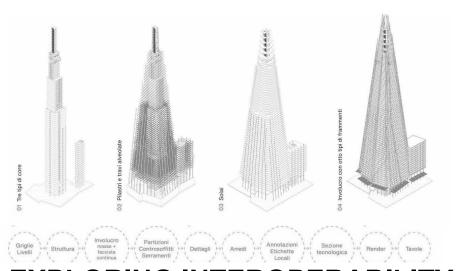
PARAMETRIC PATTERNING

DIGITAL STORYTELLING

DRAWING IN A DIGITAL MEDIUM







EXPLORING INTEROPERABILITY TECHNICAL DRAWINGS MANAGING & EXTRACTING DATAS LODS DETAILING SCHEDULES, TYPES AND FAMILIES...

BUILDING INFORMATION MODELING

IMPLEMENTING DATAS INTO MODELS



MAIN OBJECTIVES:

UNDERSTANDING ICONIC PROJECTS FROM THE LAST 100 YEARS

LEARNING TO DEAL WITH DENSITY, COMPLEXITY

AND CONTRADICTIONS

EXPERIMENTING WITH POST-DIGITAL ARCHITECTURAL MORPHOLOGIES

ACQUIRING SKILLS IN GENERATIVE DESIGN AND ALGORITHMIC MODELLING

IMPROVING DESIGN STORYTELLING

MASTERING BIM MODELLING

WORK METHOD:

GROUP WORK & FRONTAL LECTURES **EXERCISES & EXTEMPORES**STUDIO CRITICS & MID-TERM REVIEW

SITE SURVEY & FIELD TRIP