

# ARK-E2515 Parametric Design Data Handling

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Professor of Design of Structures

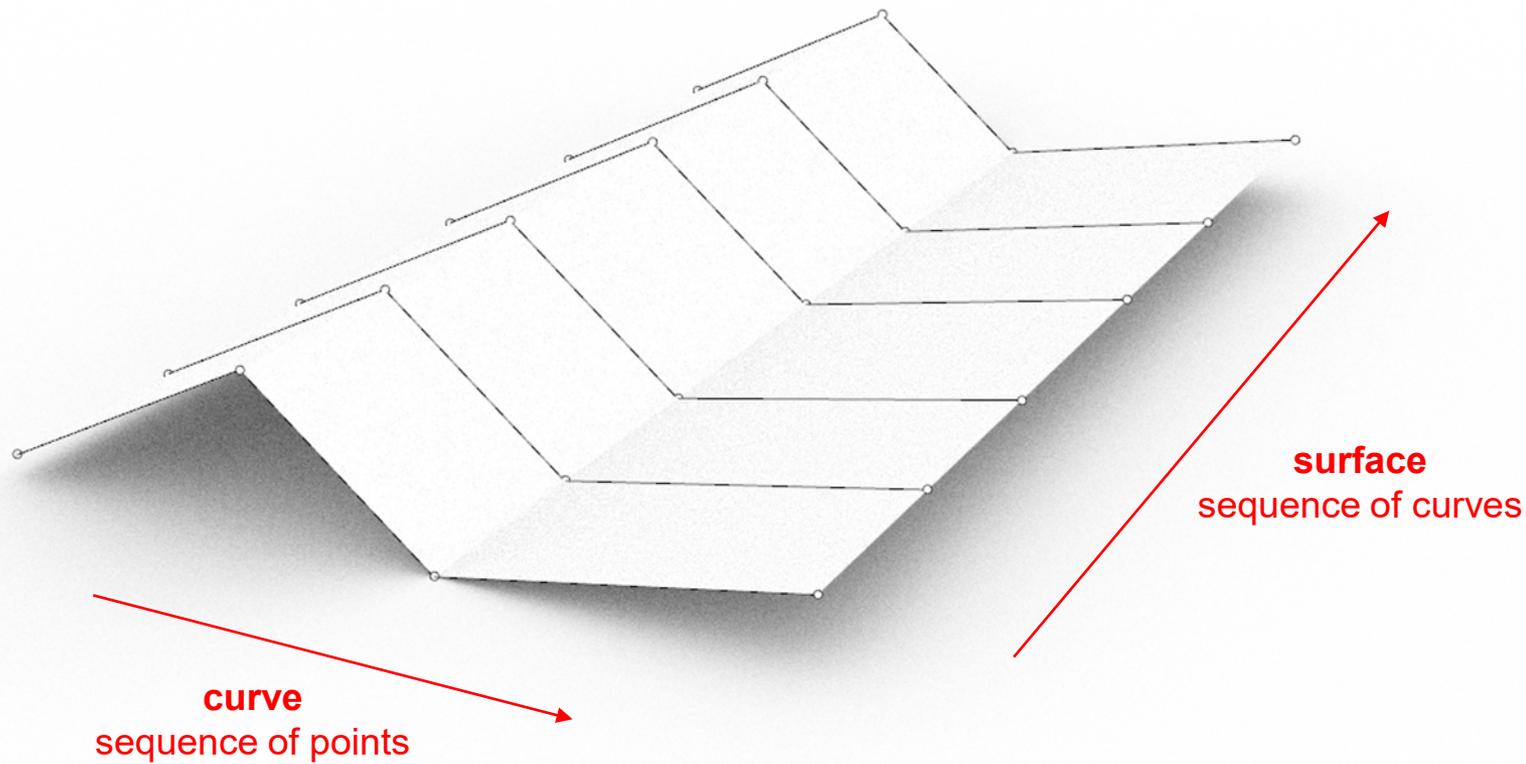
Aalto University  
Department of Architecture  
Department of Civil Engineering

# Curves & Surfaces

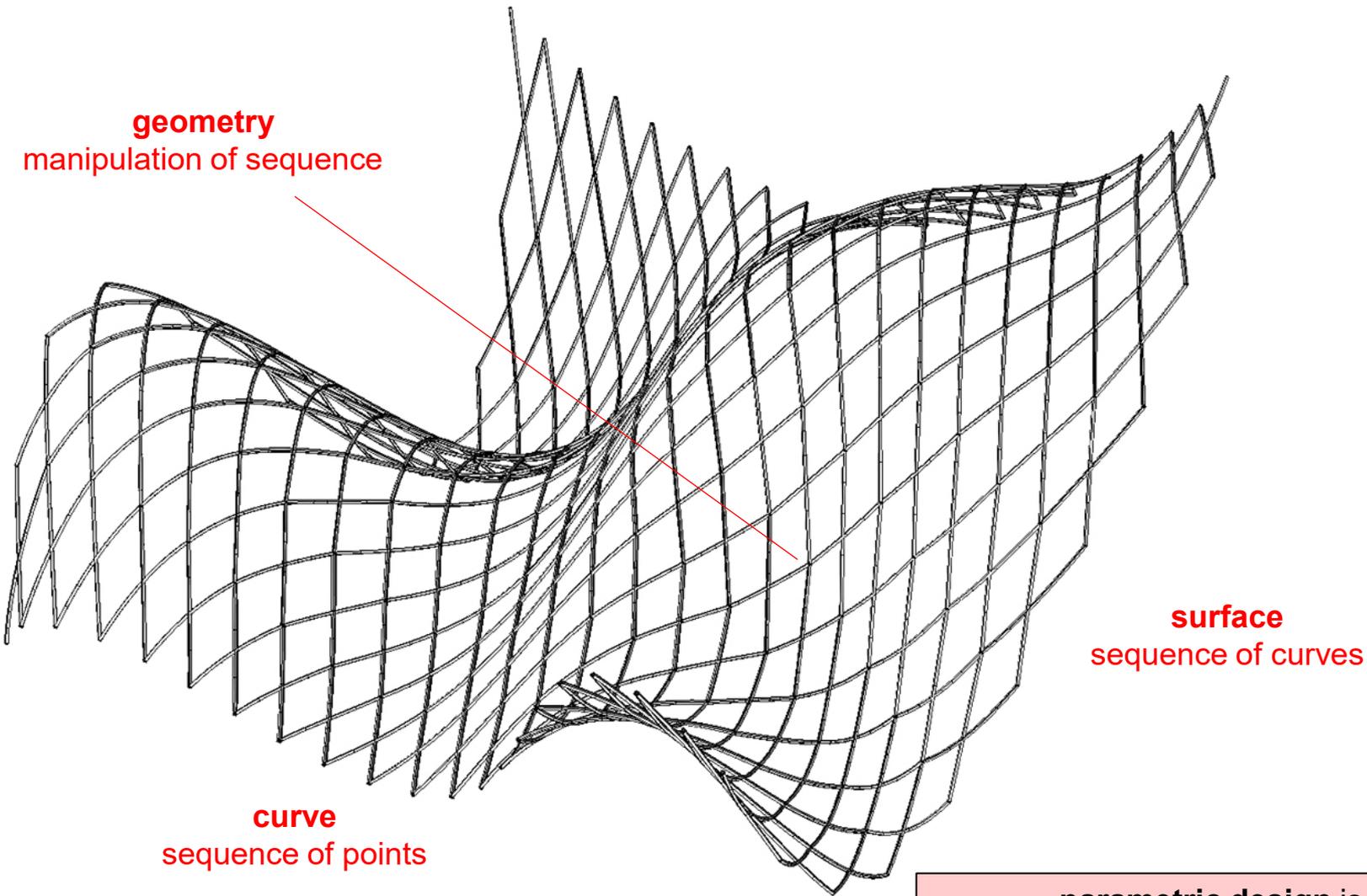


Foster + Partner: Smithsonian Institute  
Washington, USA, 2004-07

# Curves & Surfaces



# Curves & Surfaces

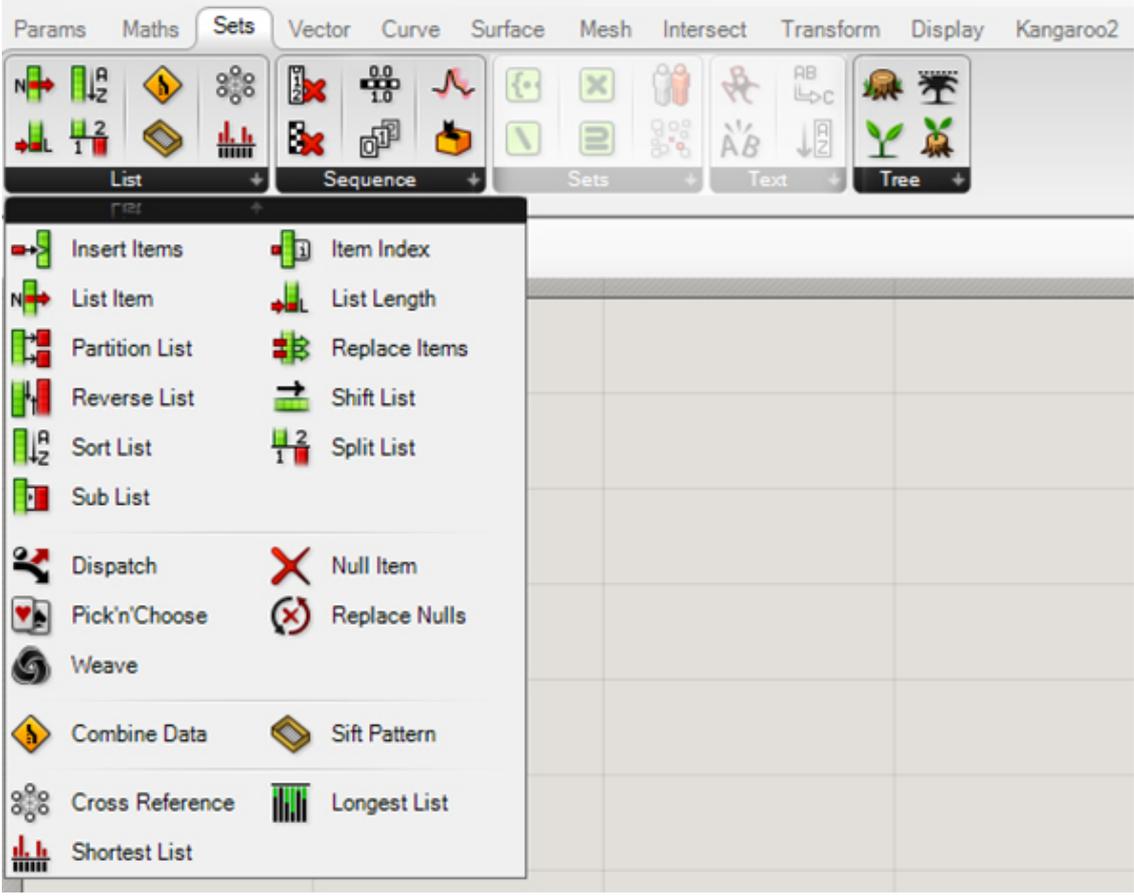
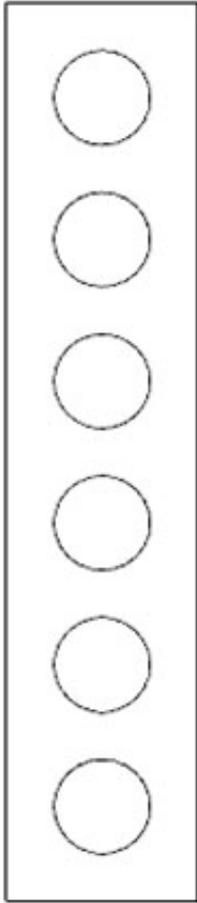


**parametric design is**

- association of geometric operations
- handling of sequences of data

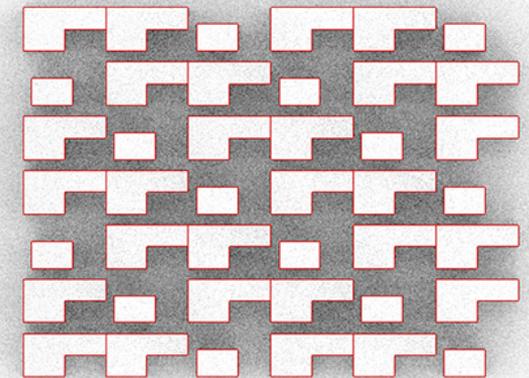
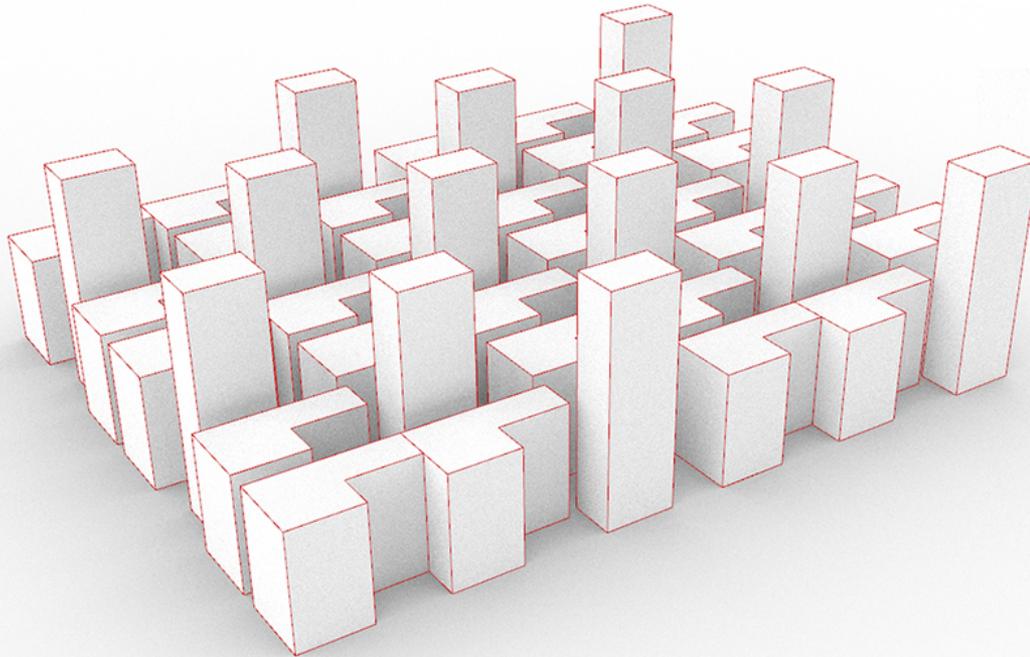
# Data Handling Basics

list

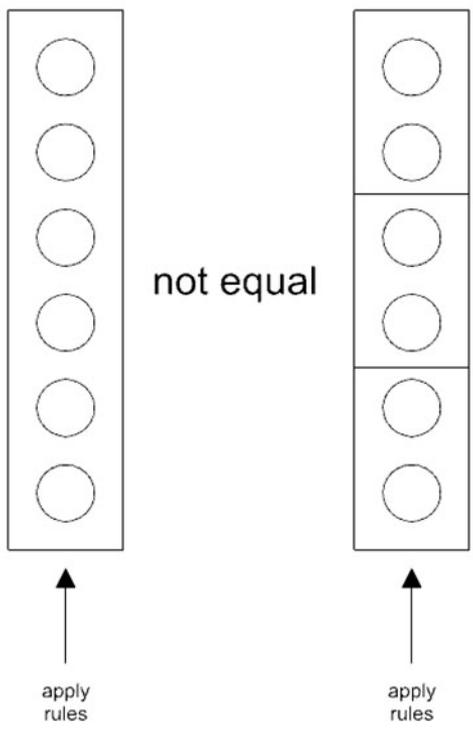


# Data Handling Basics

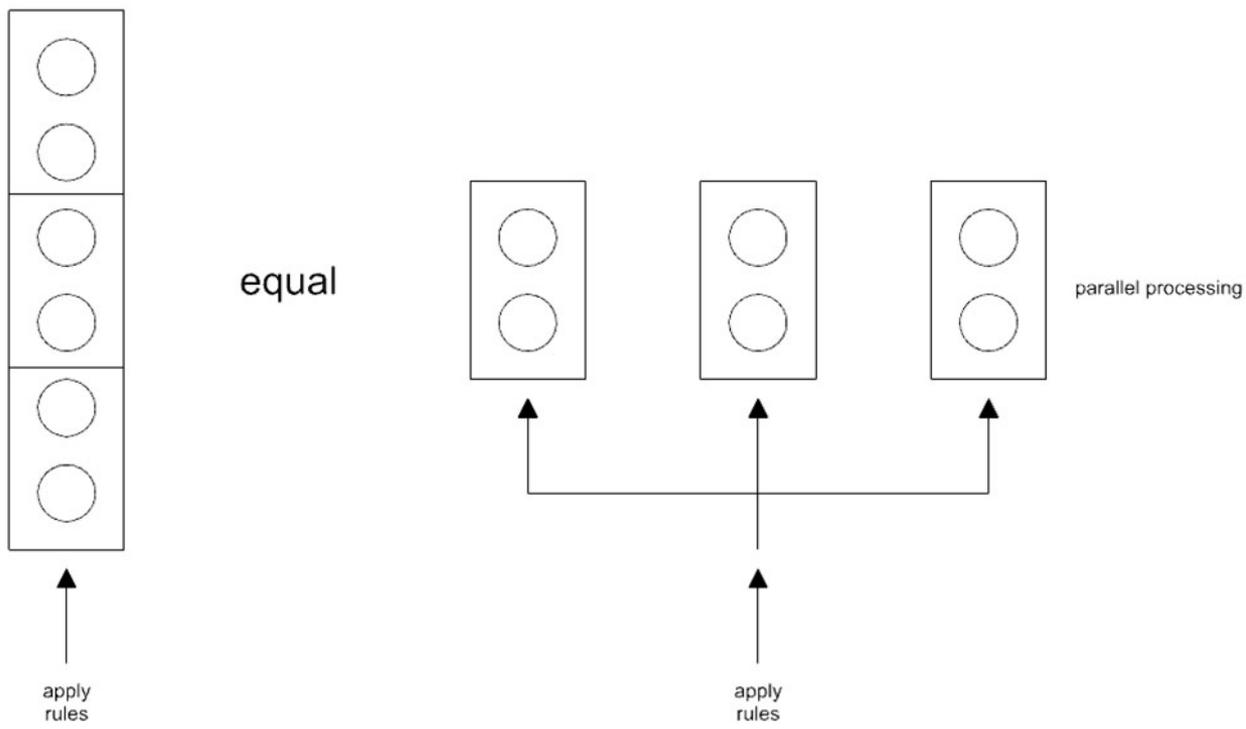
**Check 11:** use a simple distribution pattern to populate an area with two different building typologies.



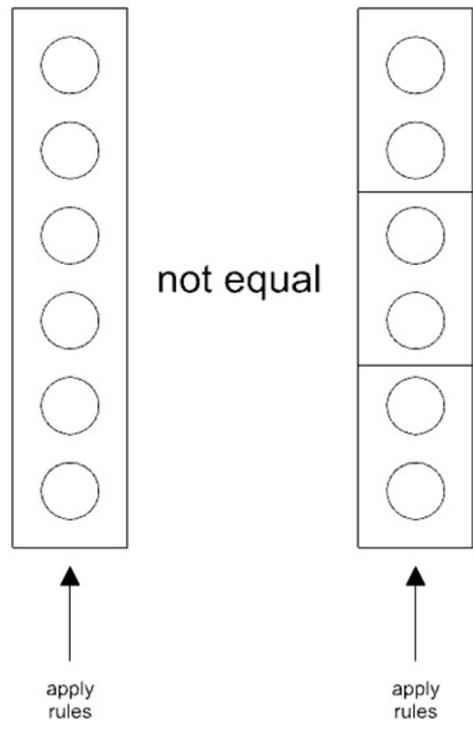
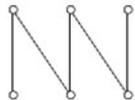
# Data Handling



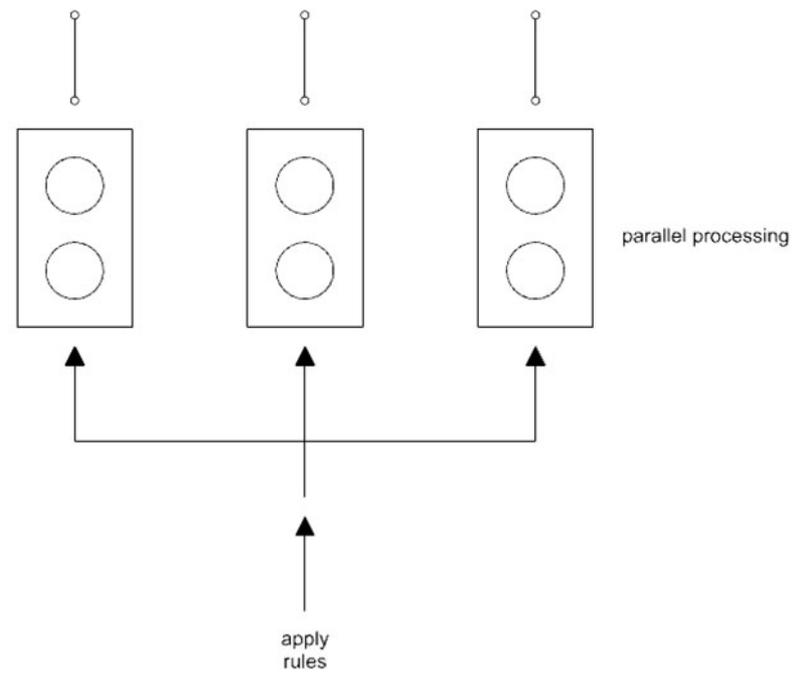
# Data Handling



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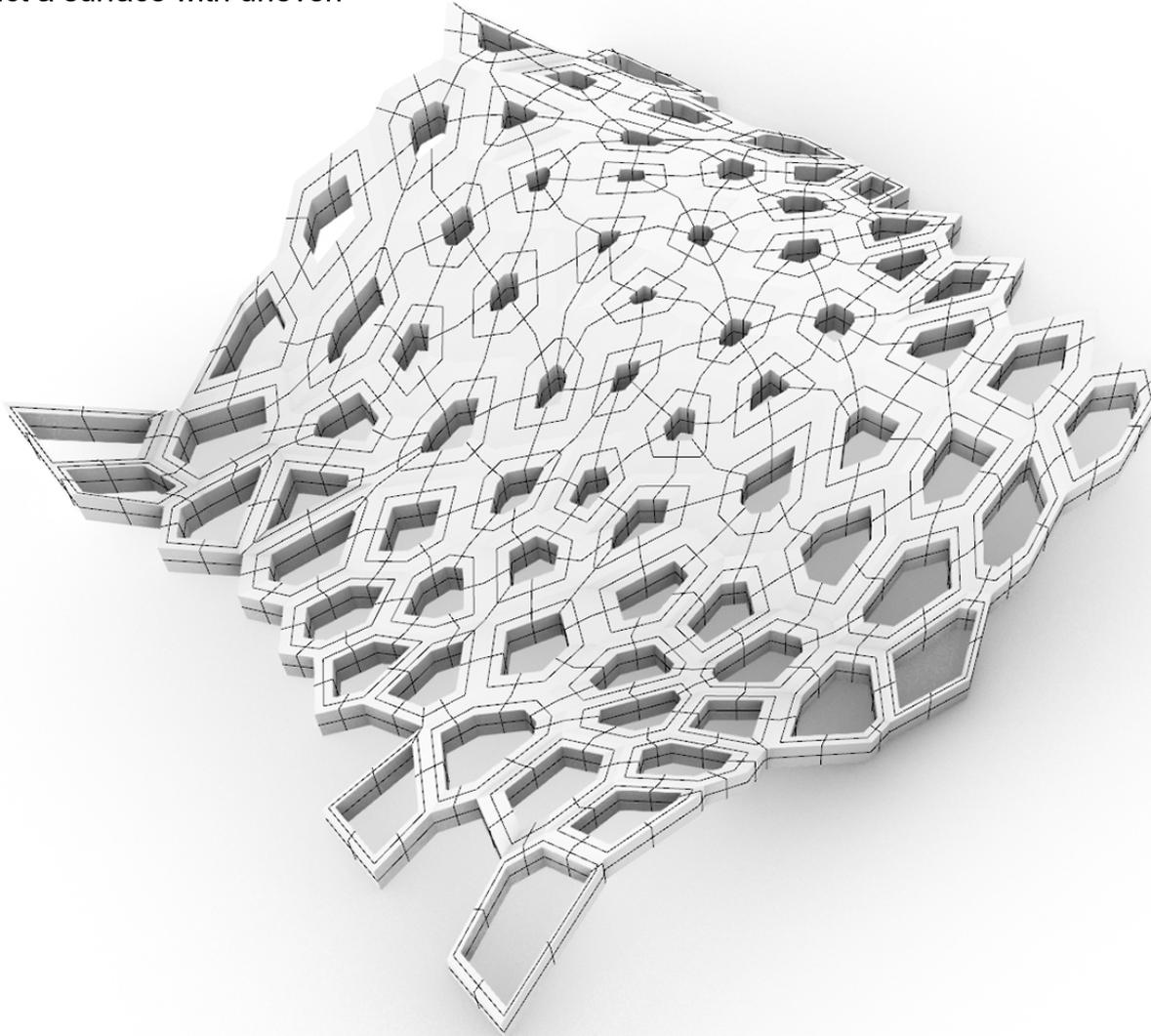


equal

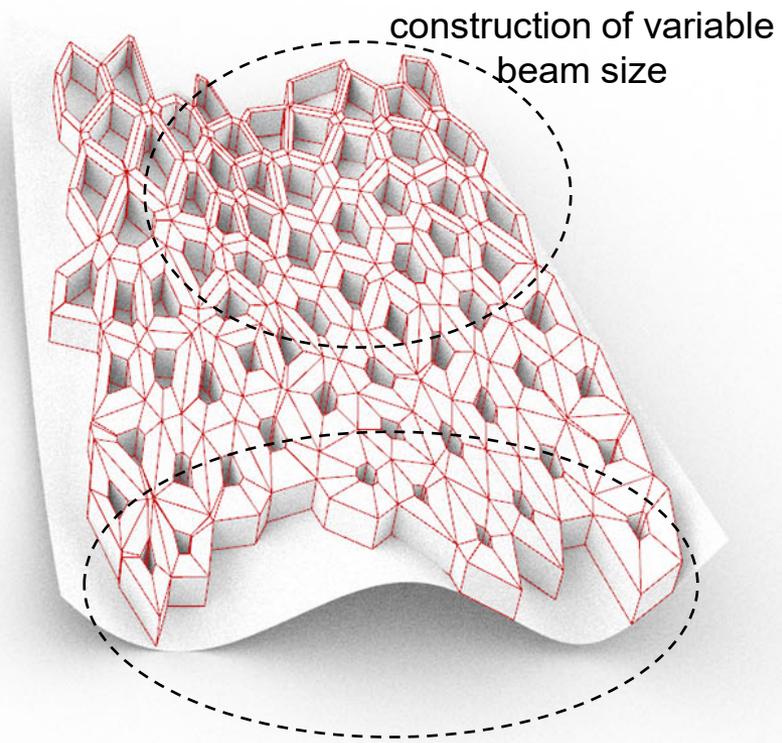
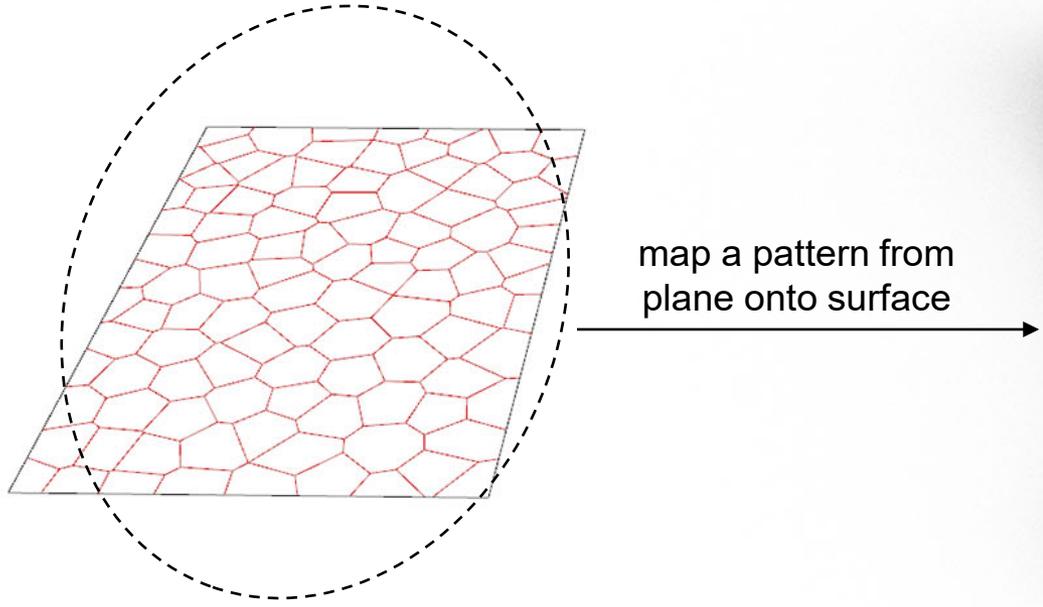


# Data Handling

**Check 12:** construct a surface with uneven  
Voronoi pattern

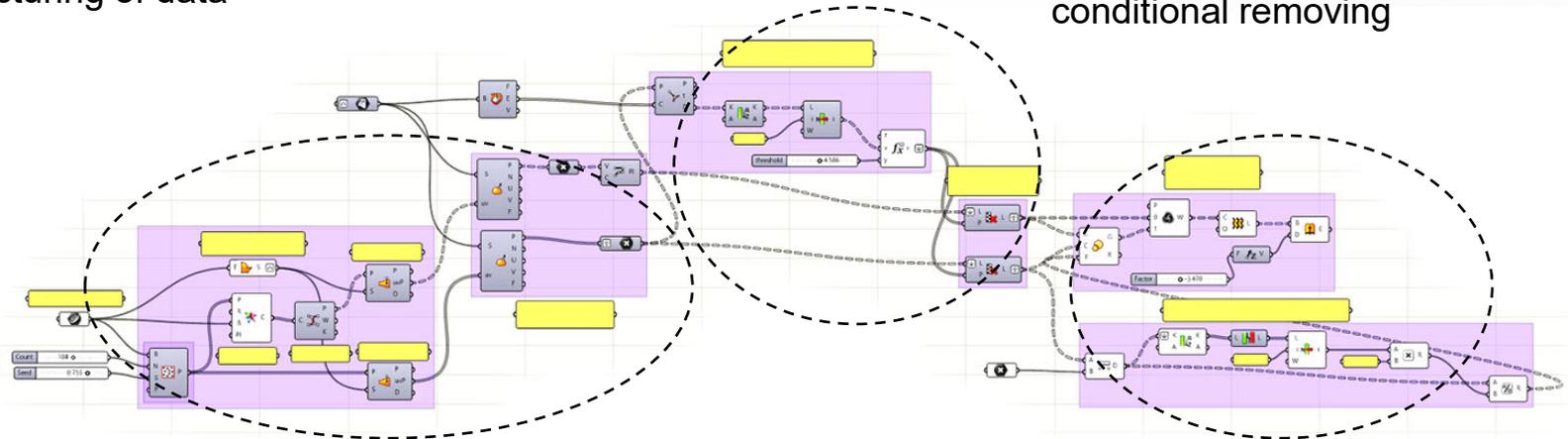


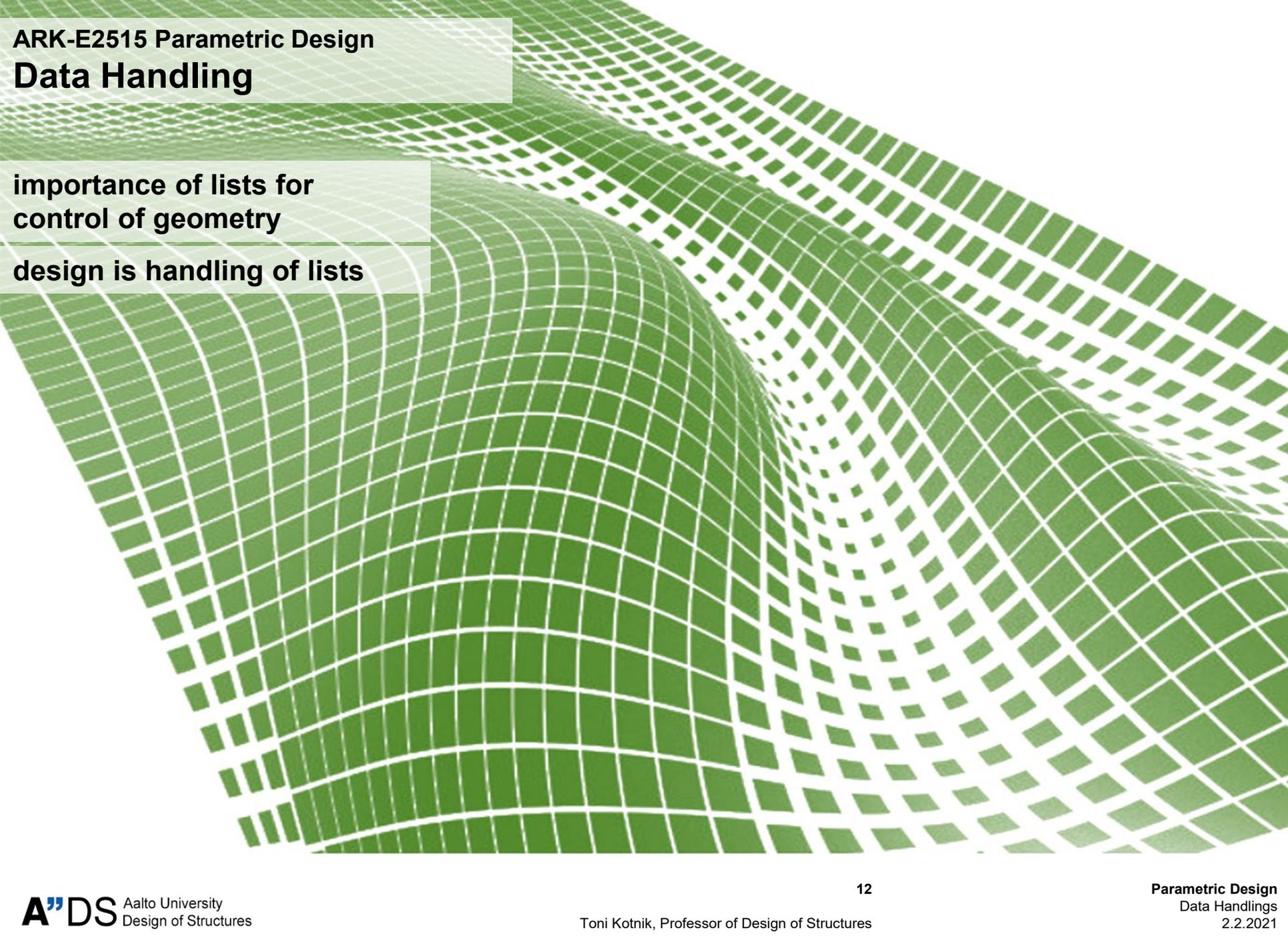
# Data Handling



structuring of data

sorting of lists & conditional removing





# ARK-E2515 Parametric Design Data Handling

importance of lists for  
control of geometry

design is handling of lists