

Parallel & Distributed Computing: Lecture 9

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Arrangement pipeline Structure

- 1 Arrangement pipeline
- 2 Browsing the code
- 3 Capturing the possible coding break

Arrangement pipeline

From collection of $(d-1)$ -complexes to $[\partial_3]$

First step: SPLIT fo create 2D arrangements

Second step: Search for CONGRUENCE

Browsing the code

As Always: start from a problem INSTANCE

[https://github.com/cvdlab/LinearAlgebraicRepresentation.jl/blob/master/exan](https://github.com/cvdlab/LinearAlgebraicRepresentation.jl/blob/master/example/linear_algebraic_representation.jl)

Look for the result

In case, make the problem instance REPRODUCIBLE

Capturing the possible coding break

TGW requires CORRECT TOPOLOGY

Consider high-level SPLIT of 2-cells

Look for SYMMETRY of sets $\mathcal{I}(\sigma)$

Look for BOUNDARY COMPATIBILITY of split
cell \mapsto 2-complex