

Nested Loop + Branch
Parallel Pattern
On/off-chip Transfer
On-chip Memory Banking

Spatial



Hierarchical + Distributed
Streaming/Actor Model
Explicitly-Managed
Scratchpad

Actor CGRA

**Streaming Data-flow
Transformation:**

- On/off-chip consistency

Partitioning+Merging:

- Compute
- Memory (Coherency)
- I/O bandwidth

Mapping:

- Place and Route
- Register Allocation