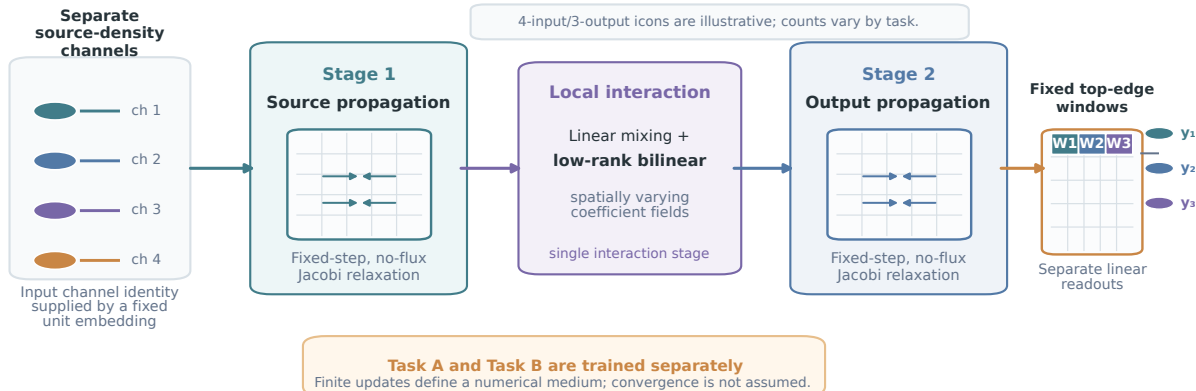


a

Shared finite-relaxation computational medium

Common pipeline used within each task

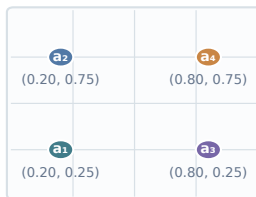


b

Task A | fixed-position polynomial task

Four signed source ports; three analytic outputs

Unit-square source locations



Analytic target functions

$$y_1 = a_1 + a_2$$

$$y_2 = a_2 \times a_3$$

$$y_3 = a_1 \times a_4$$

Positions remain fixed
across Task A samples.

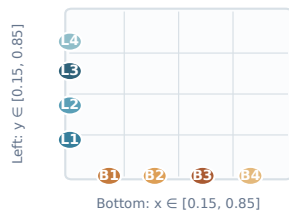
$a_1 \dots a_4$ independently sampled from $[-1, 1]$

c

Task B | continuous-position sparse-pair task

Four movable left and four movable bottom source channels

Movable source coordinates



Four output pair selections

one distinct left-bottom pair per output

$$y_1 \text{ (L1) } \rightarrow \text{ (B3) }$$

$$y_2 \text{ (L2) } \rightarrow \text{ (B4) }$$

$$y_3 \text{ (L1) } \rightarrow \text{ (B1) }$$

$$y_4 \text{ (L4) } \rightarrow \text{ (B3) }$$

Illustrative pairing only

Not a saved teacher graph.
Not data or a learned causal path.