

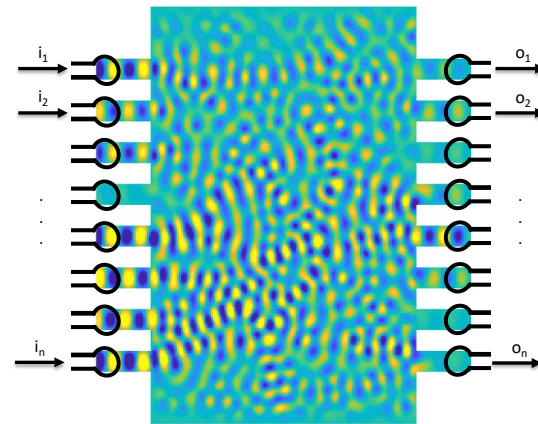


- The focus of the NAC program differs from other non-conventional computing research efforts that seek general-purpose computation.
- The NAC strategy: identify and/or engineer physical properties in materials to implement specific computation directly.
- NAC aims to offer breakthrough capabilities towards solving real-world computation problems that are poorly suited for classic computation platforms.

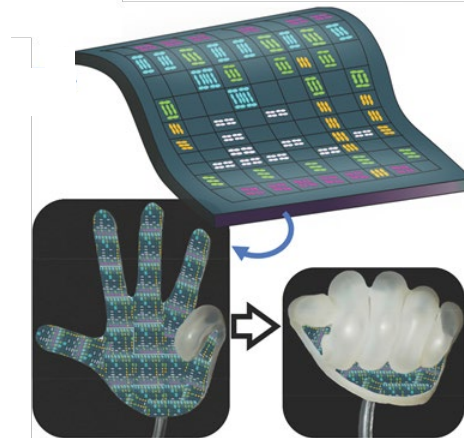
Both the **dynamics and constraints** of physical substrates are crucial to computation

- Dynamics gives computational power
- Constraints reduces the problem space

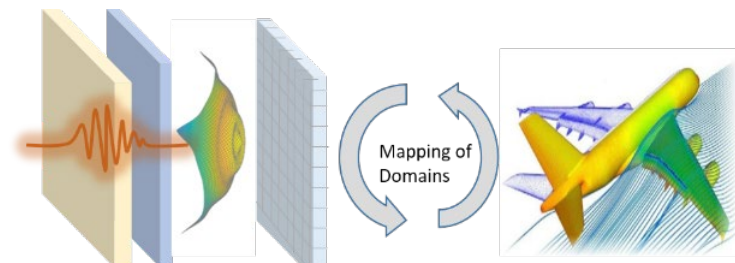
Harness complex dynamic physical phenomenon to perform computations "for free"



Magnetic Wave Computation



Morphological Computation



Nonlinear Optical Dynamics

Fluid Dynamics

Optical Computation