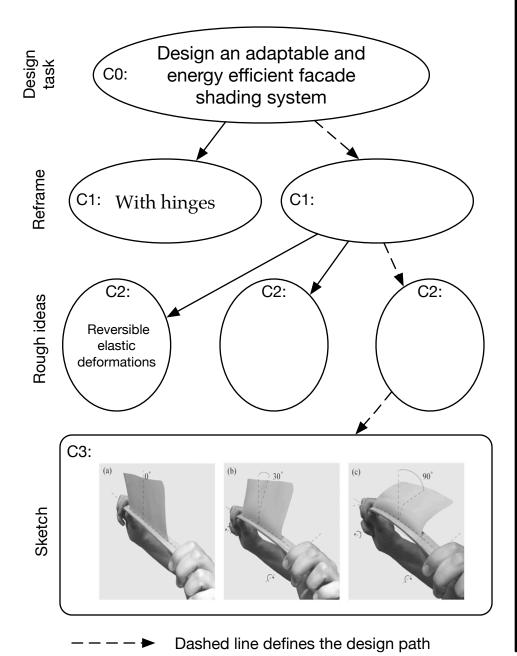
Concept Space



Knowledge Space

Existing Solution

Hinges and rollers used in building shading systems (blinds) wear and require maintenance.

Only work well for buildings with flat sides.

Companies No. Baskel Proline

Lateral torsional buckling is a type of material

failure.

Traditional Knowledge

ELASTIC MATERIAL

Yield strength

Yield strength

Brittle fracture

Brittle fracture

Strain (Percent)

All materials (metals, polymers, ceramics, etc) have an elastic and plastic region. Deformations in the elastic region are not permanent.

Biological Bird of Paradise system:

Biology Knowledge

Unexpected Property



Reversible deformation, bending the perch unfolds the petals exposing the pollen