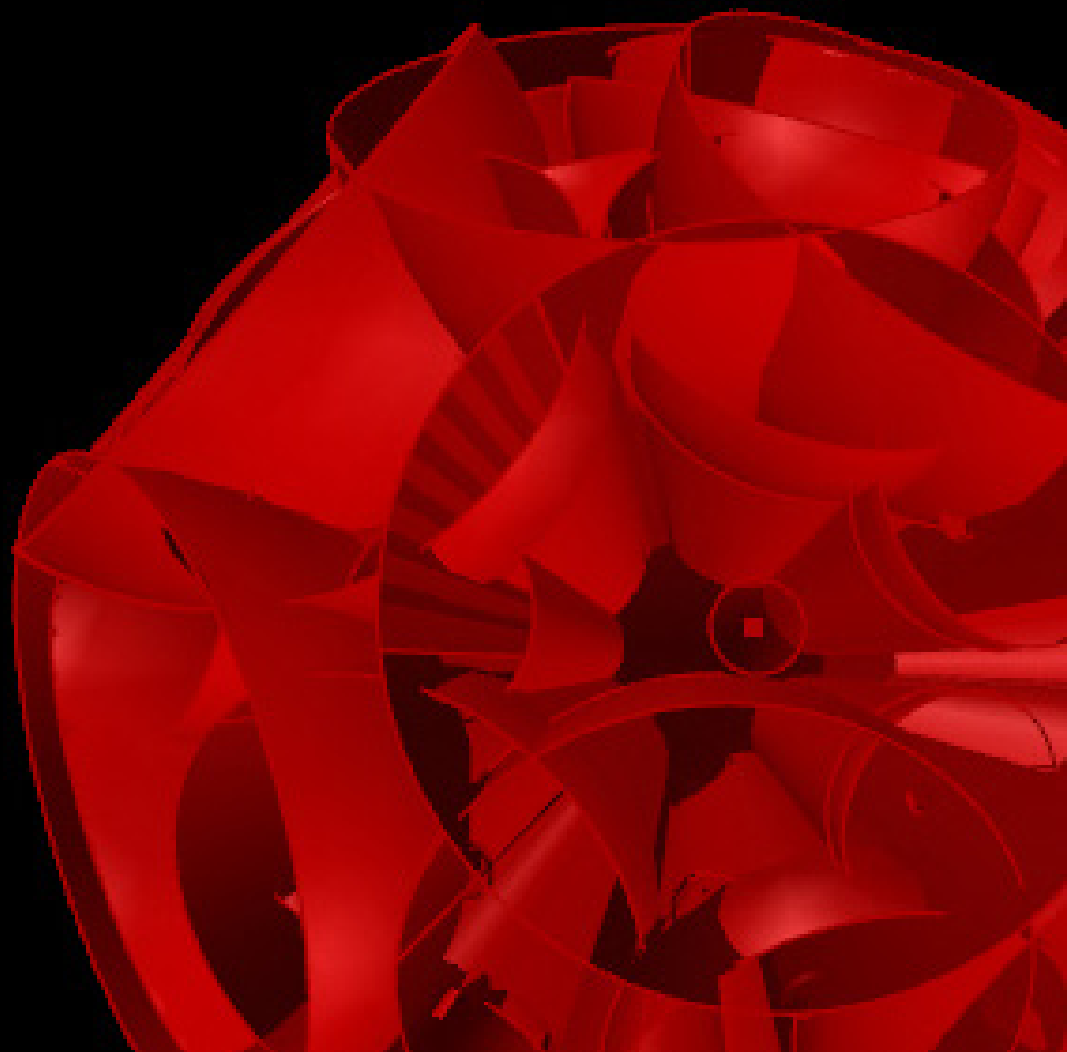
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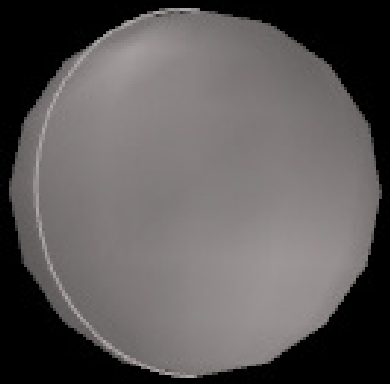
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SO.3 COMPUTATIONAL DESIGN - GENERATIVE ALGORITHMS
2016/2017

TUTORS: RODRIGO AGUIRRE, ALDO SOLLAZO

FUNNEL

NIKITA JOHN

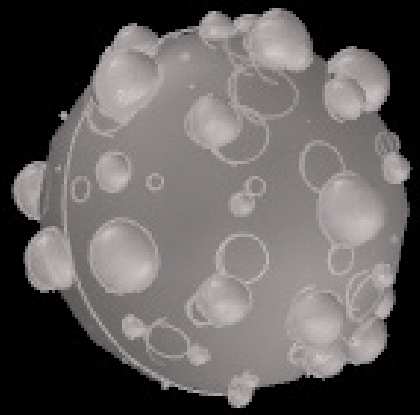




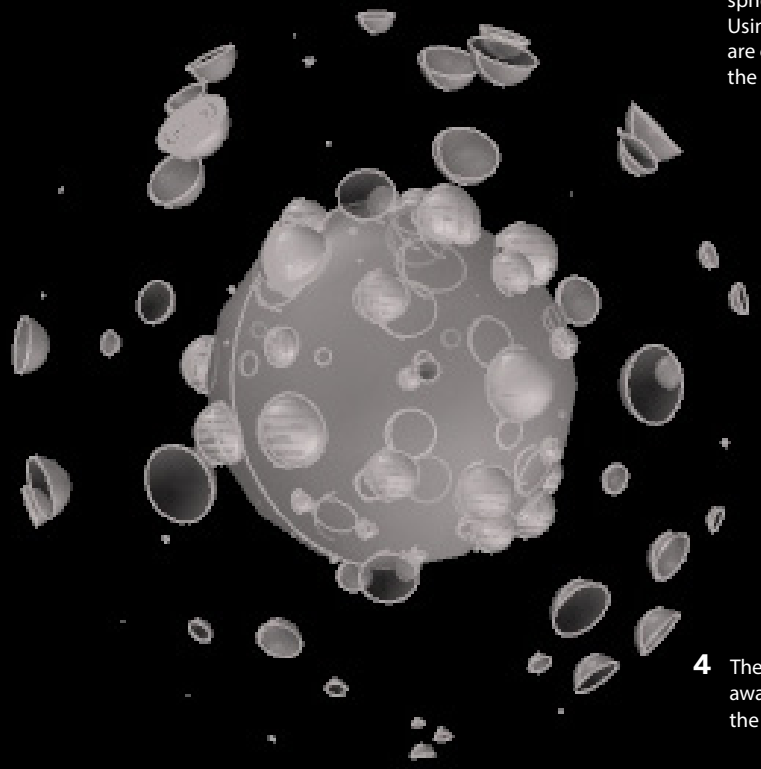
1 Sphere is created with variable radius using **Primitive Surface**.
Radius - 50 / 100



2 Points created on the sphere using **Populate Geometry.**



3 Smaller spheres of variable radius are created on the surface of the large sphere at the points generated.
Using **Split Brep** the smaller spheres are cut at the surface where they intersect the larger sphere.

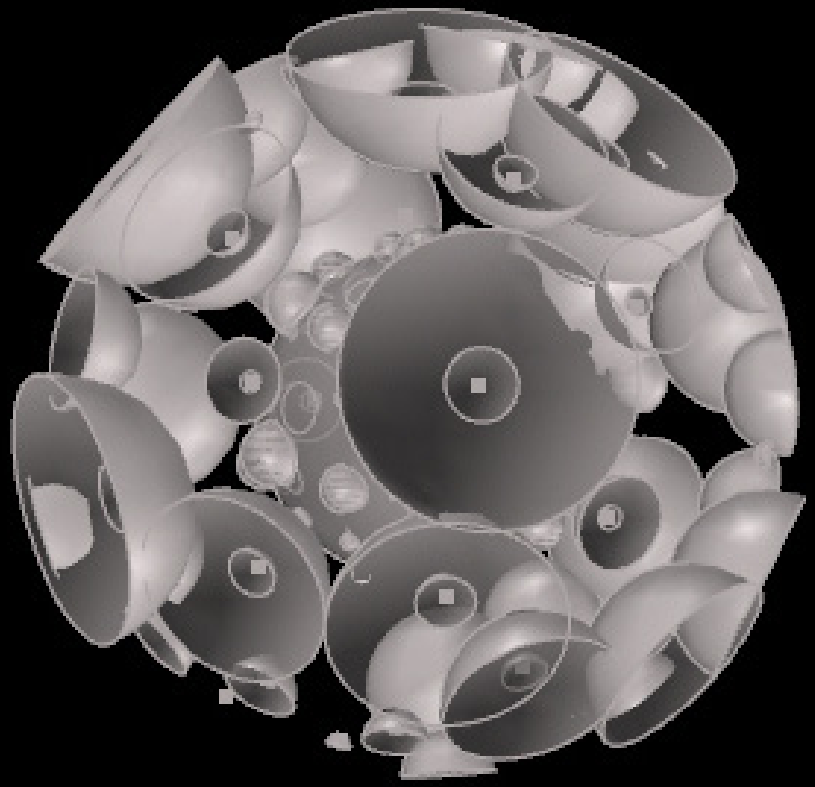


4 The hemisphere which is cut is is moved away from the surface of the sphere along the central axis.

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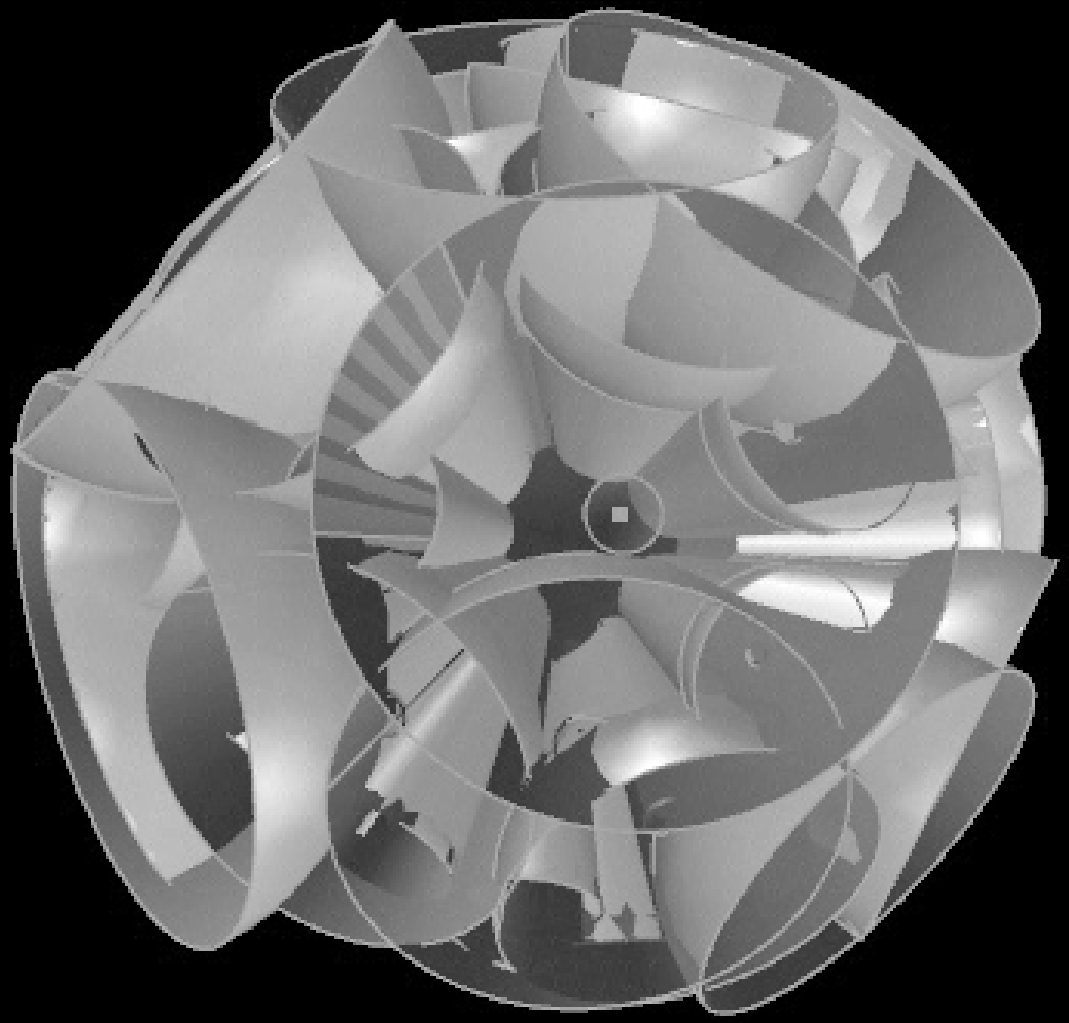
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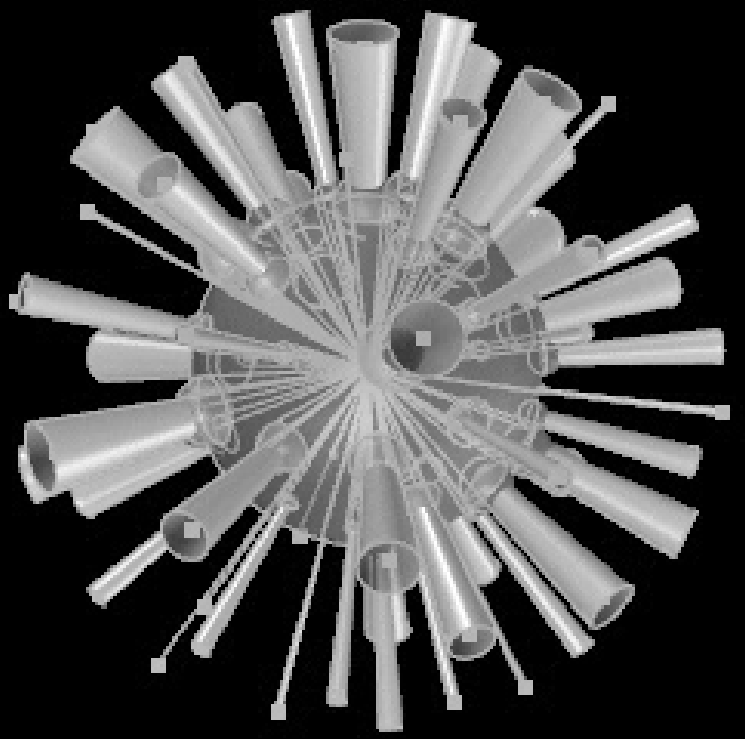
5 The outer hemispheres are scaled uniformely and Center points are generated.



6 The Brep surface is deconstructed and the surfaces are extruded to the center of the main sphere.



Form Variations
The outer hemispheres are scaled by increaing the factor.
Variable Factor - 8

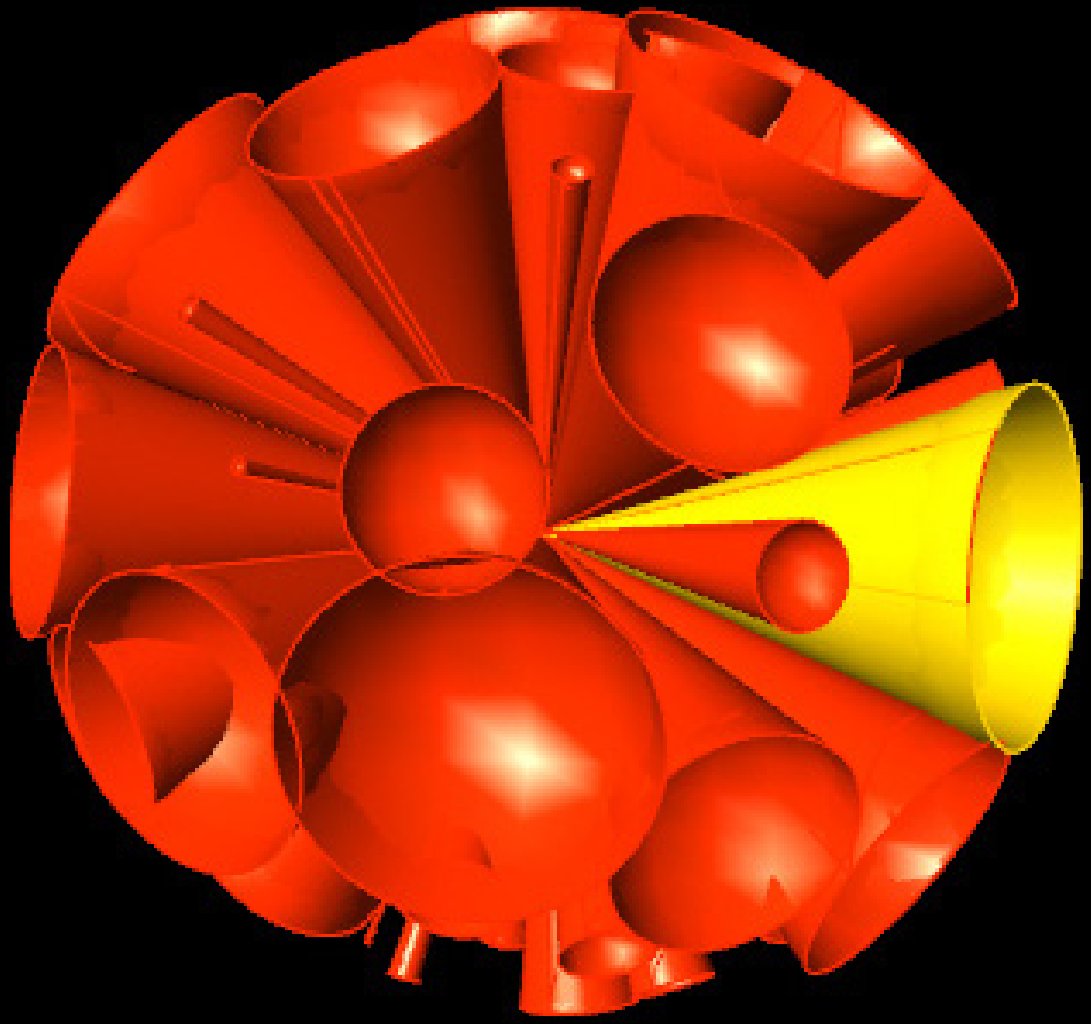


Form Variations
The outer hemispheres are scaled by reducing the factor.
Variable Factor - 1

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Gradient Application
A gradient is applied to the resulting connical form.
Range controlled by a variable.

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