Form-Finding of Tessellated Tensegrity Structure equilibrium because their single units are not self-equilibrated. It is Keyao Song, Mark Schenk, Fabrizio Scarpa

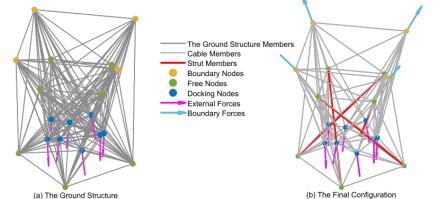
1.Tessellated Tensegrity Structure Adapted stiffness matrix form-finding method Class-1 tubular tensegrity Symmetric and translational constraints **Tessellation** Strut Members Nodes Rotational Symmetric Axis

2.The Boundary Structure

Repetitive Unit

The ground structure method with symmetry and class-1 constraints

Tessellated Tubular Tensegrity



Tubular tessellated Class-1 tensegrity structures are not globally in necessary to identify boundary structures to provide the balance and to satisfy position and residual forces constraints. We present here a new method to solve the problem.

