Tubular Origami Catalogue

Tube (Sec. III-A1, Alg. 1)
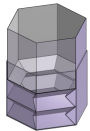Connects modules with a linear offset

Twist Fitting (Sec. III-A2, Alg. 2)
Connects modules with a twist offset

Elbow Fitting (Sec. III-A3, Alg. 3)
Connects modules with a bent angle

Prismatic Joint (Sec. III-B1, Alg. 4)
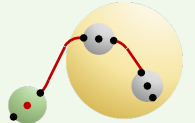Allows one-DOF translation

Revolute Joint (Sec. III-B2, Alg. 5)
Allows one-DOF rotation

Input: D-H Specification
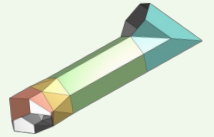
Kinegami (Sec. VI, Alg. 10)

Joint Placement (Sec. V, Alg. 8 & 9)
Place each joint such that they satisfy kinematic and volumetric constraints

Link Generation (Sec. IV-B, Alg. 7)
Find the module composition that connects any two bases

Crease Pattern Composition (Sec. IV-A, Alg. 6)

Output: Crease Pattern