

Hair Strand Dynamics

- Each hair strand is modeled as a rigid multi-body open chain
- **Forward Dynamics**
 - Featherstone's algorithm or Lagrange's equations for generalized coordinates.
- **Joint actuator force accounts for the bending and torsional rigidity of the strand.**
 - Deviation from the resting position results in a nonzero resisting actuator force.
- **Hair-hair interactions are formulated as external forces in addition to gravity.**

Strand Dynamics

Jianjun Gao



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