Images Style Transfer Using CNN

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Introduction to Style Transfer

Gram Matrix

Content & Style Loss

Results

Rigid body dynamics

- Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^bd^2}{dt^2}\vec{r} + 2\vec{\omega}_{ib} \times \frac{{}^bd}{dt}\vec{r} + \vec{\alpha}_{ib} \times \vec{r} + \vec{\omega}_{ib} \times (\vec{\omega}_{ib} \times \vec{r})$$

Rigid body dynamics

- Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^b d^2}{dt^2}\vec{r} + \boxed{2\vec{\omega}_{ib} \times \frac{{}^b d}{dt}\vec{r}} + \boxed{\vec{\alpha}_{ib} \times \vec{r}} + \boxed{\vec{\omega}_{ib} \times (\vec{\omega}_{ib} \times \vec{r})}$$

- Transversal acceleration

Rigid body dynamics

- Coriolis acceleration

$$\vec{a}_p = \vec{a}_o + \frac{{}^bd^2}{dt^2}\vec{r} + \boxed{2\vec{\omega}_{ib} \times \frac{{}^bd}{dt}\vec{r}} + \enclose{roundedbox}{\vec{\alpha}_{ib} \times \vec{r}} + \boxed{\vec{\omega}_{ib} \times (\vec{\omega}_{ib} \times \vec{r})}$$

- Transversal acceleration
- Centripetal acceleration