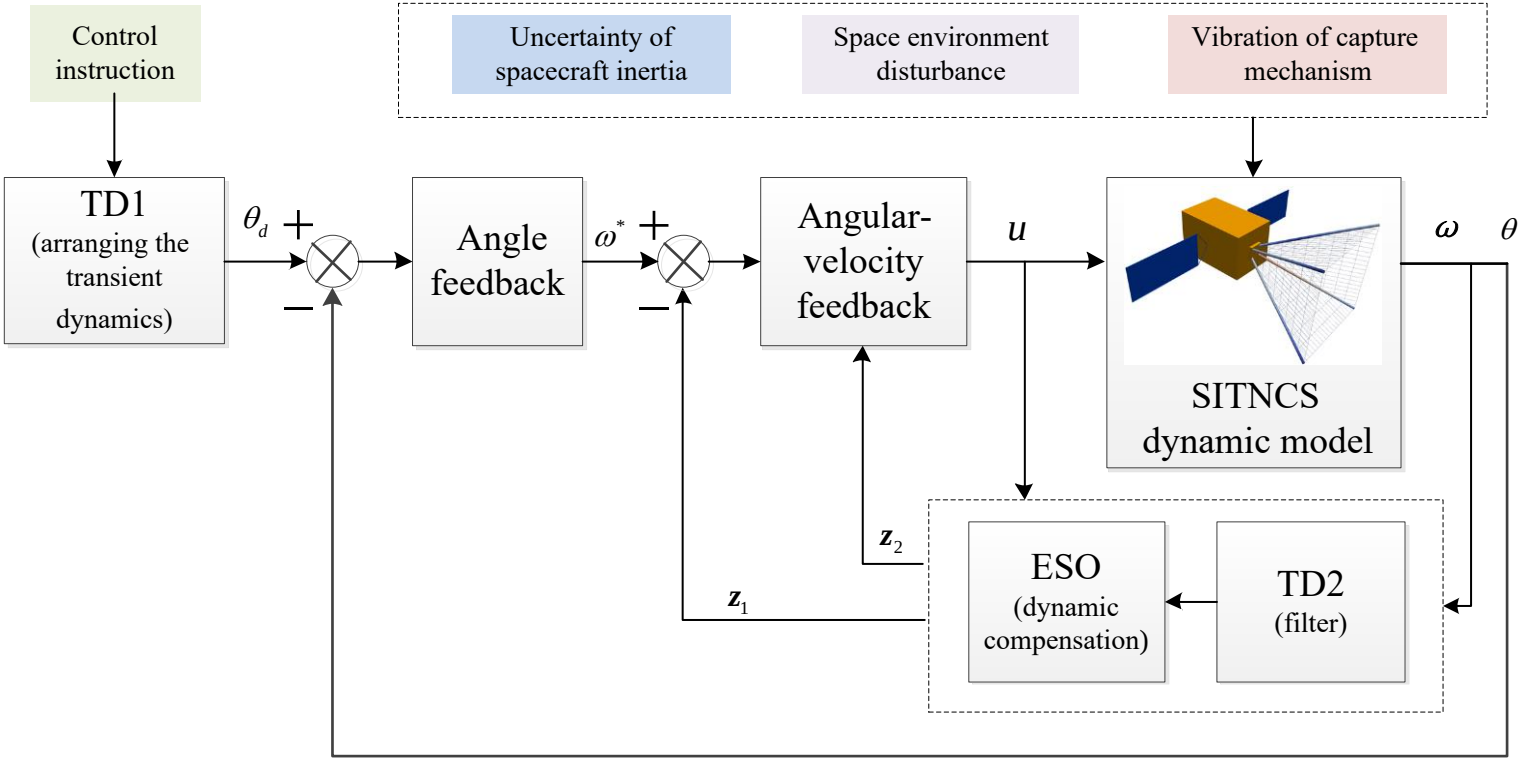
Control instruction
Uncertainty of spacecraft inertia
Space environment disturbance
Vibration of capture mechanism
TD1
(arranging the transient dynamics)
θ_d
+
−
Angle feedback
ω^*
+
−
Angular-velocity feedback
u
SITNCS dynamic model
ω
θ
$\mathbf{z}_2$
$\mathbf{z}_1$
ESO
(dynamic compensation)
TD2
(filter)