Navier-Stokes Generative Adversarial Network

1   Mathematical model

We consider the physic information redisual equation that

$$r_{cty} = \nabla \cdot \boldsymbol{u} \tag{1}$$

$$r_u = \boldsymbol{u}_t + \sigma \boldsymbol{u} + (\boldsymbol{u} \cdot \nabla)\boldsymbol{u} - \mu \Delta \boldsymbol{u} + \nabla p \tag{2}$$

$$r_c = c_t + \sigma c + (\boldsymbol{u} \cdot \nabla)c - \mu \Delta c \tag{3}$$

2   Network Construction

References