

奖励函数选取方向总结

写法:

(加权平均)

考虑因素:

攻角、襟翼偏转角(飞行姿态), 升阻比

背景: 为了提升风能利用效率, 优化风力涡轮机叶片的气动性能

<https://www.sciencedirect.com/science/article/pii/S0029801823021595>

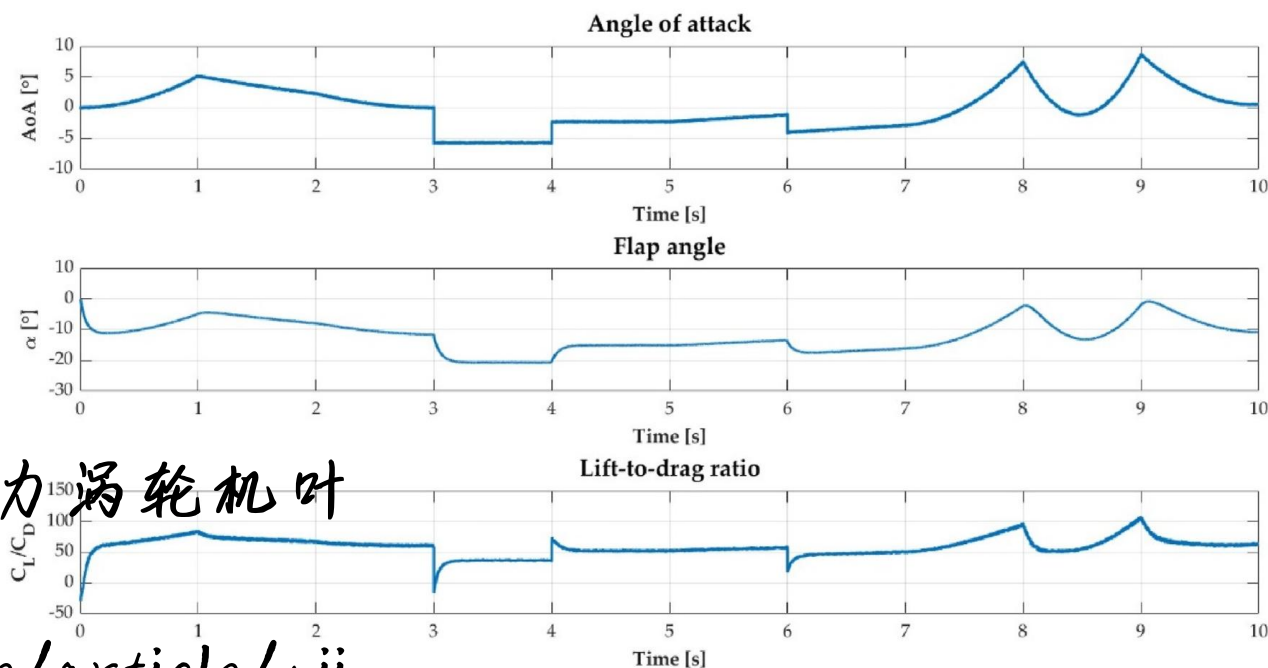


Fig. 11. Flap angle set by the agent for an AoA defined by a random sequence.

奖励函数分析

论文中给出的奖励函数 (公式21) 如下:

$$\text{Reward} = 0.1 * (C_L / C_D) - 0.02 * |\Delta\omega| - 100 * \text{Stop}$$

攻角固定, 控制升阻比
背景: 无

<https://www.sciencedirect.com/science/article/pii/S0029801823021595>

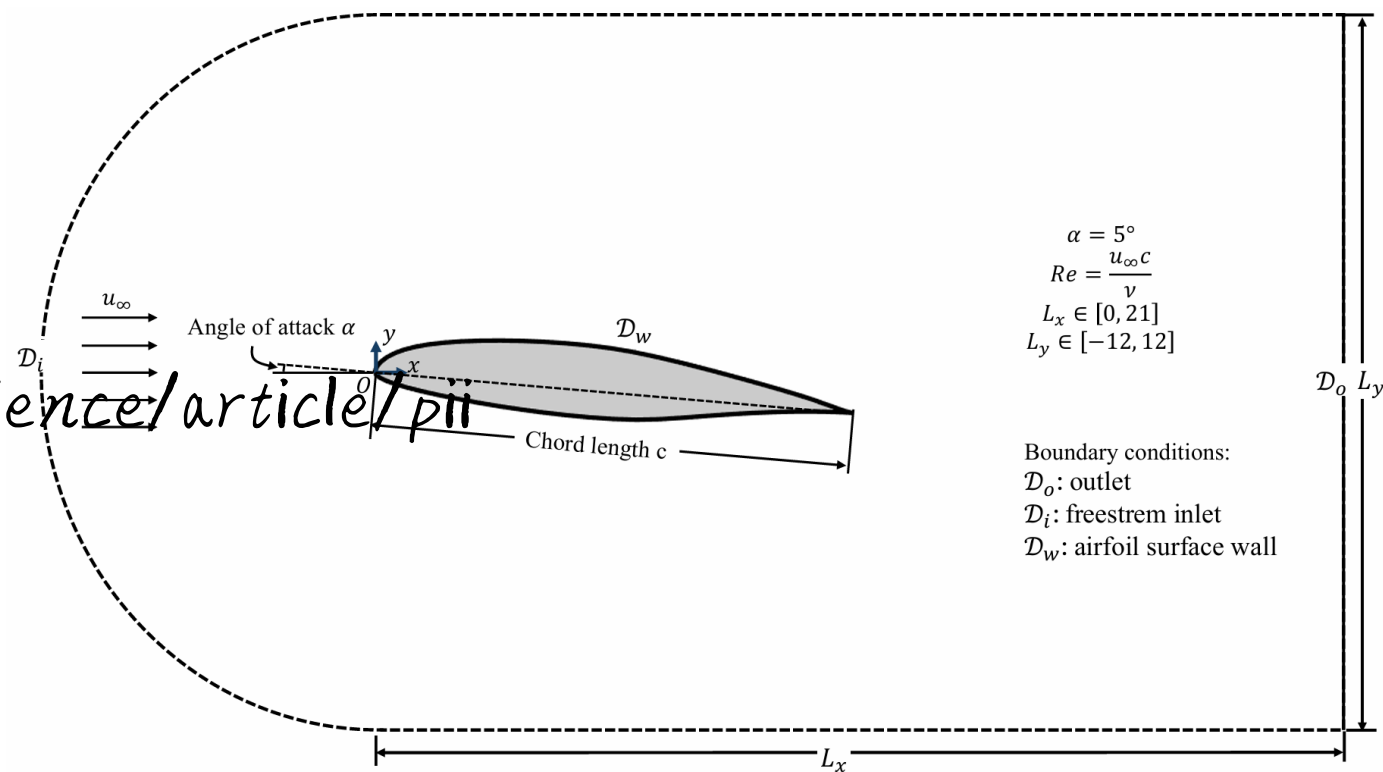


Fig. 1 Description of flow problem (not-to-scale): Separated flow over NLF(1)-0115 airfoil at angle of attack $\alpha = 5^\circ$.