

Li Z G, Zeng H J, Wang K, Peng X D, Yan S N, Zhao Q. Study on S-shaped region of pump turbine based on Omega vortex analysis method and entropy production theory. *Int J Agric & Biol Eng*, 2023; 16(3): 102–109.

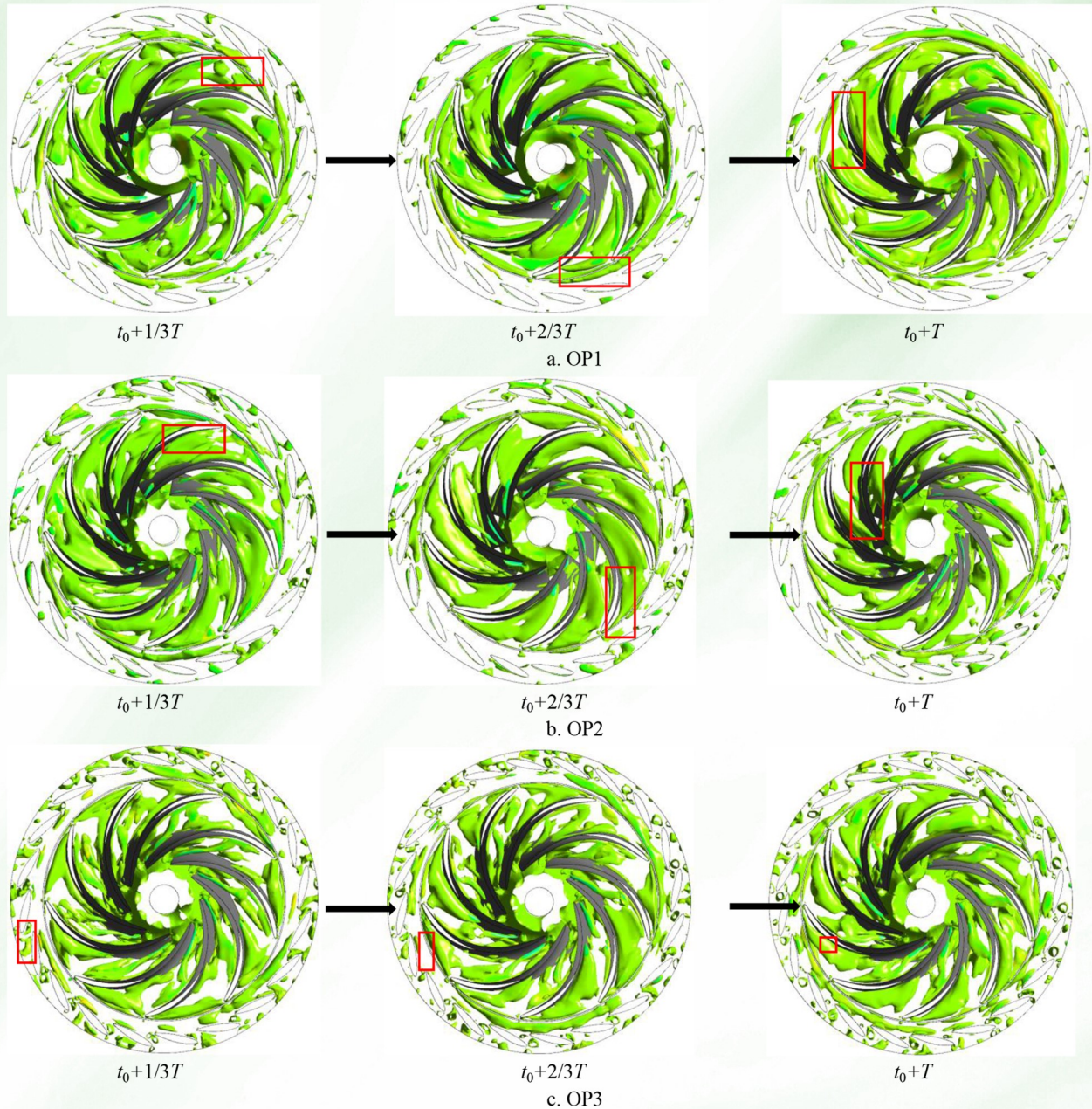


Figure 5 Vortices evolution law

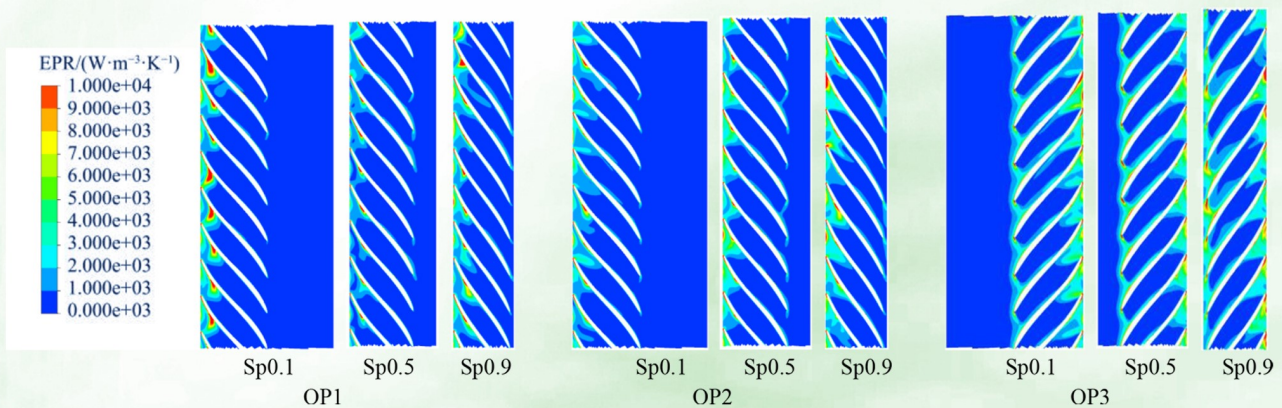


Figure 7 Entropy production rate of different spanwise surfaces in runner channel

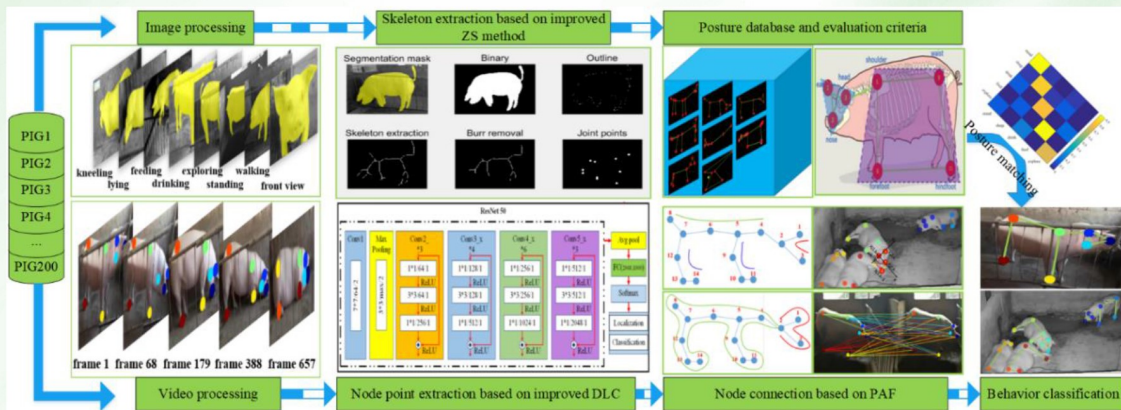


Figure 1 Steps of the method proposed in the current study

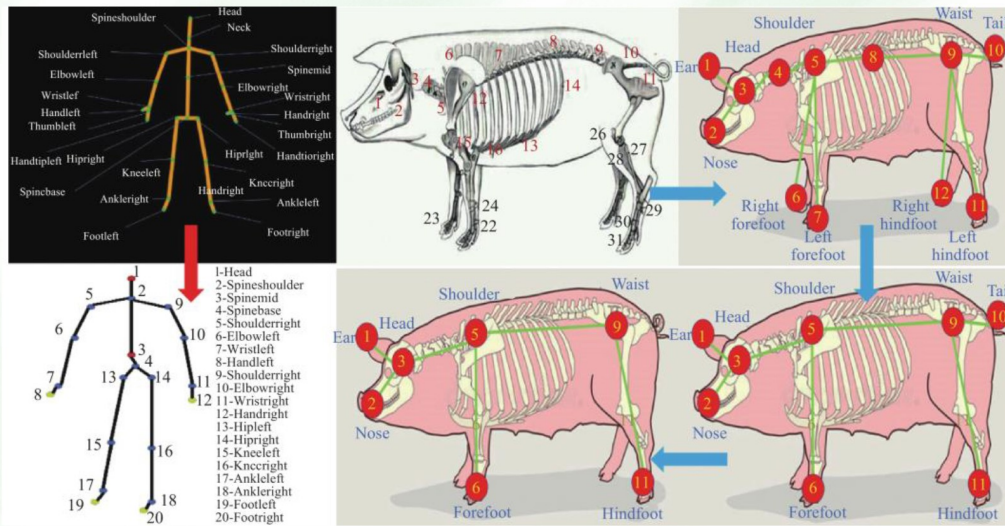


Figure 7 Design of the initial skeleton nodes of the overall pig

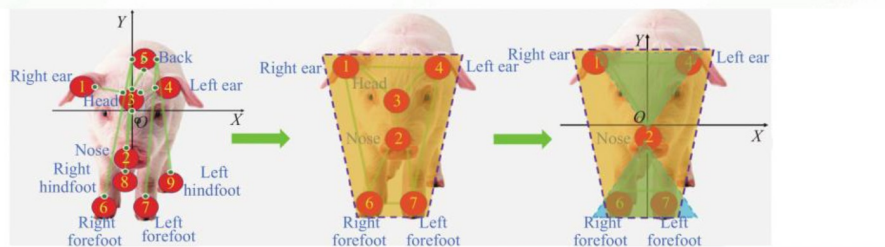


Figure 8 Design of the initial skeleton nodes of the head of a pig

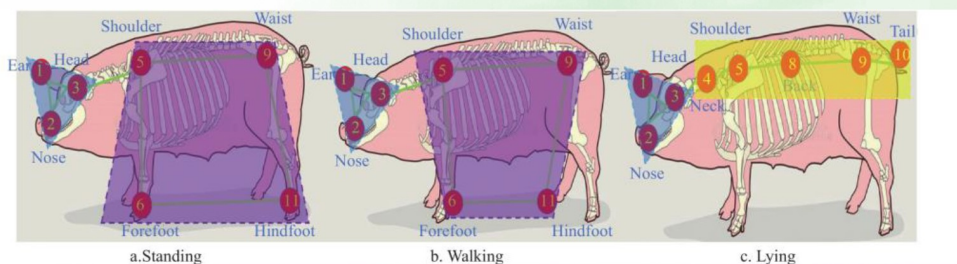


Figure 9 Overall evaluation criteria