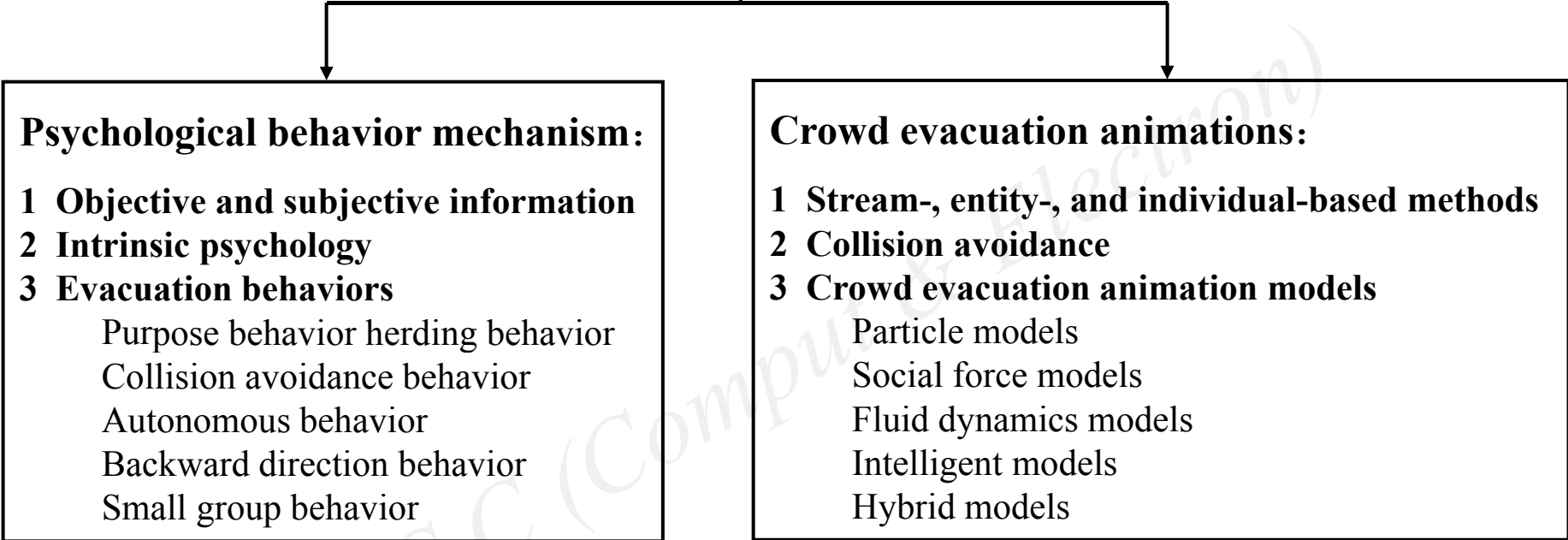


A review of behavior mechanisms and crowd evacuation animation in emergency exercises

应急演练的行为机制和群体疏散动画综述

Citation: Gao-qi He, Yu Yang, Zhi-hua Chen, Chun-hua Gu, Zhi-geng Pan, 2013. A review of behavior mechanisms and crowd evacuation animation in emergency exercises. *Journal of Zhejiang University-Science C (Computers & Electronics)*, 14(7):477-485. [doi:10.1631/jzus.CIDE1301]

Behavior mechanisms and crowd evacuation animation in emergency exercises



Several areas worthy of further investigation

One-step forward focus	Weighting between objective and subjective information
More efficient assessment methods	Establishing crisis trust
Macro-micro crowd evacuation models	Semantic virtual scenes
Affection computation and augmented reality	Balance between realistic effect and efficiency

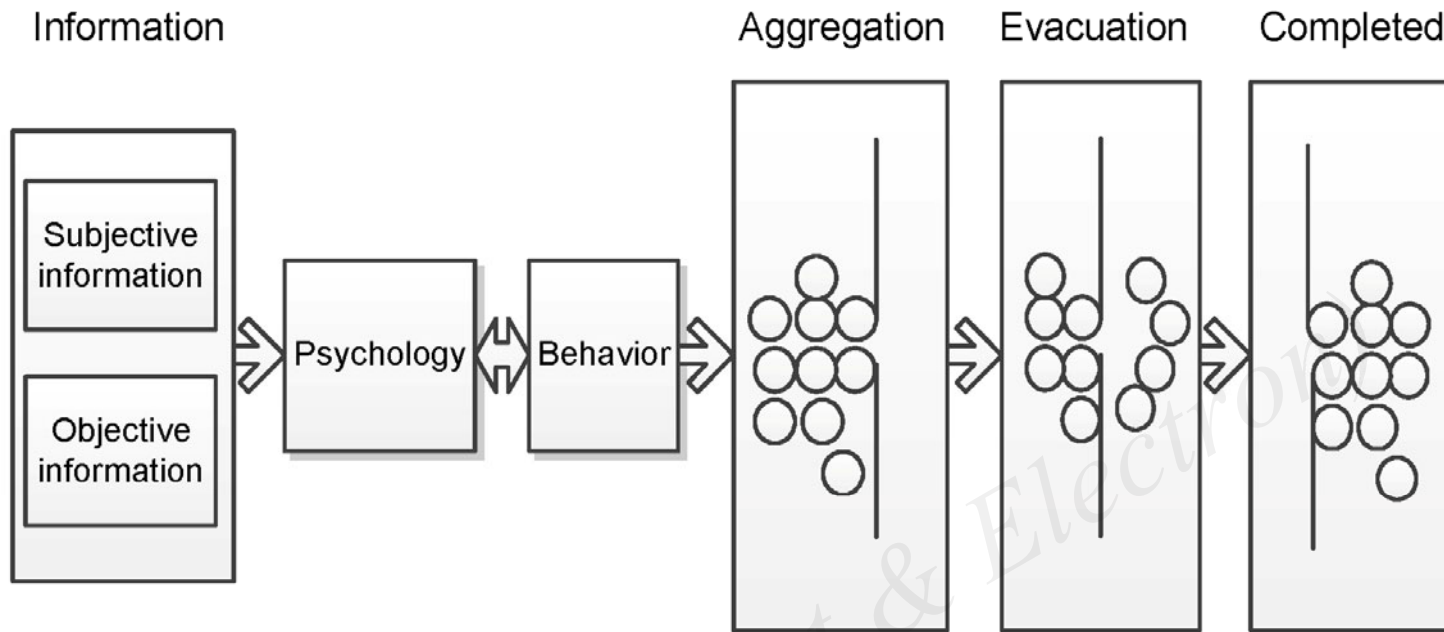
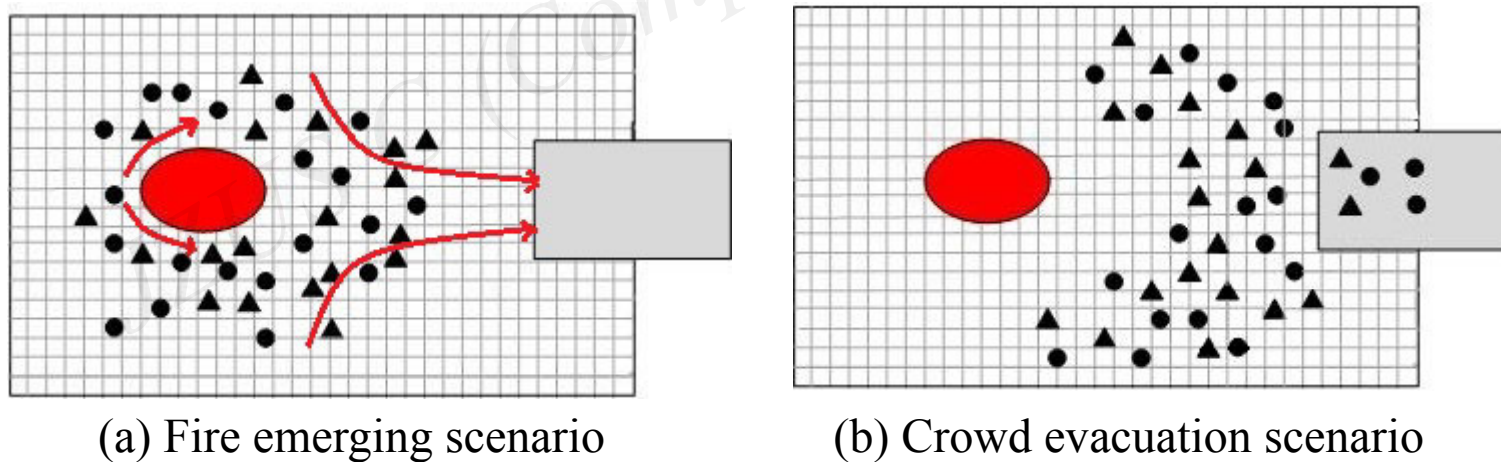


Fig. 1 Six stages of the analysis of a logical crowd behavior pattern



(a) Fire emerging scenario

(b) Crowd evacuation scenario

Fig. 2 Crowd evacuation animation under fire condition using a social model