

STREAKLINES, POTENTIALS, AND CROWD ANSLYSIS

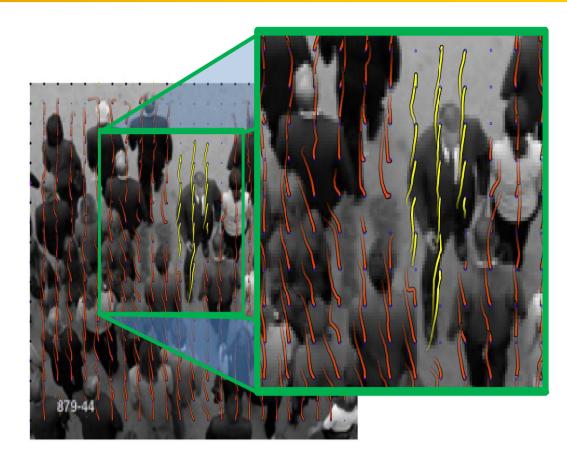


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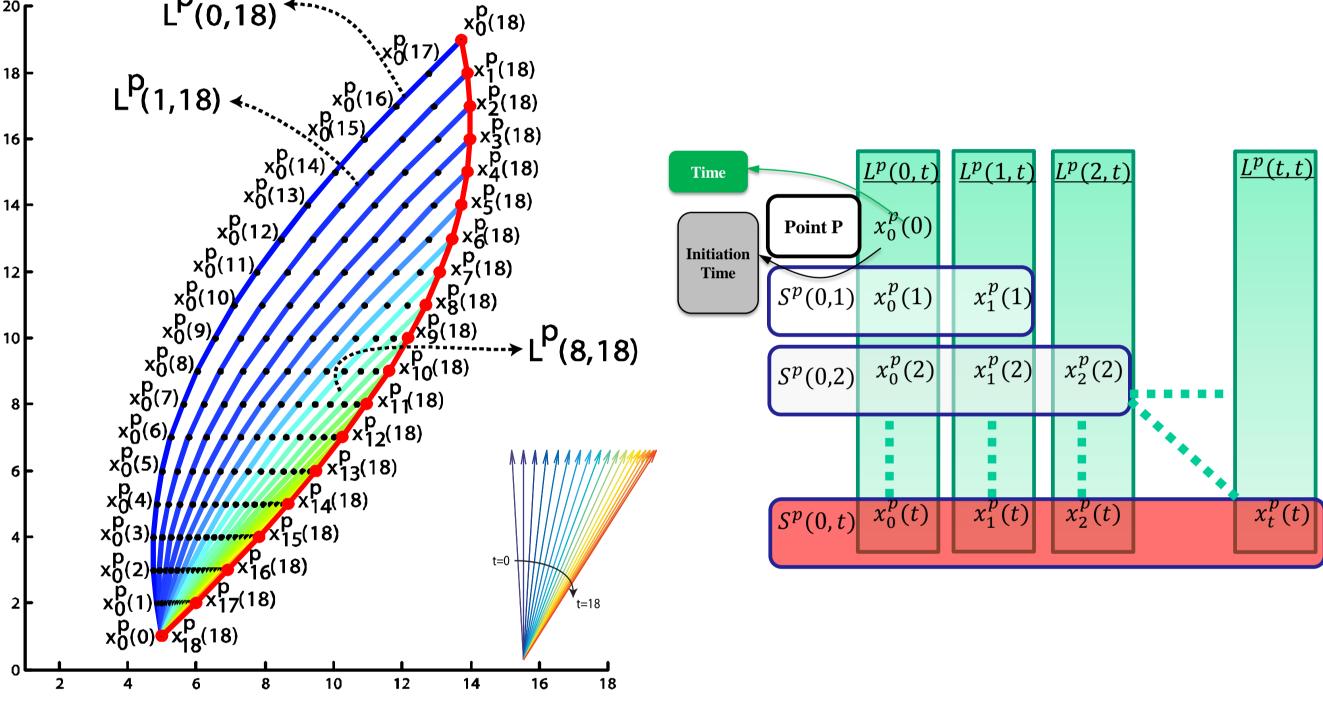
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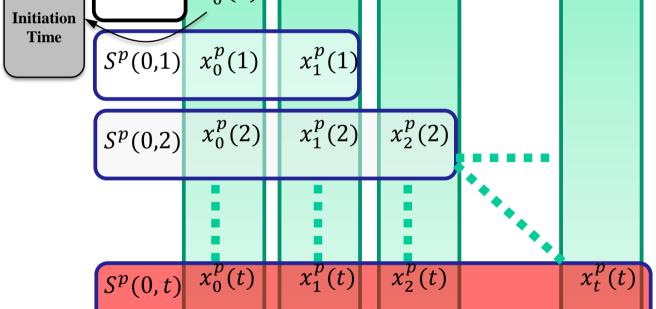
I. Abstract

Streaklines are the traces in a fluid flow of an injected color material, which are transported with the flow and are used for visualization. Streaklines may be used in a similar way to transport

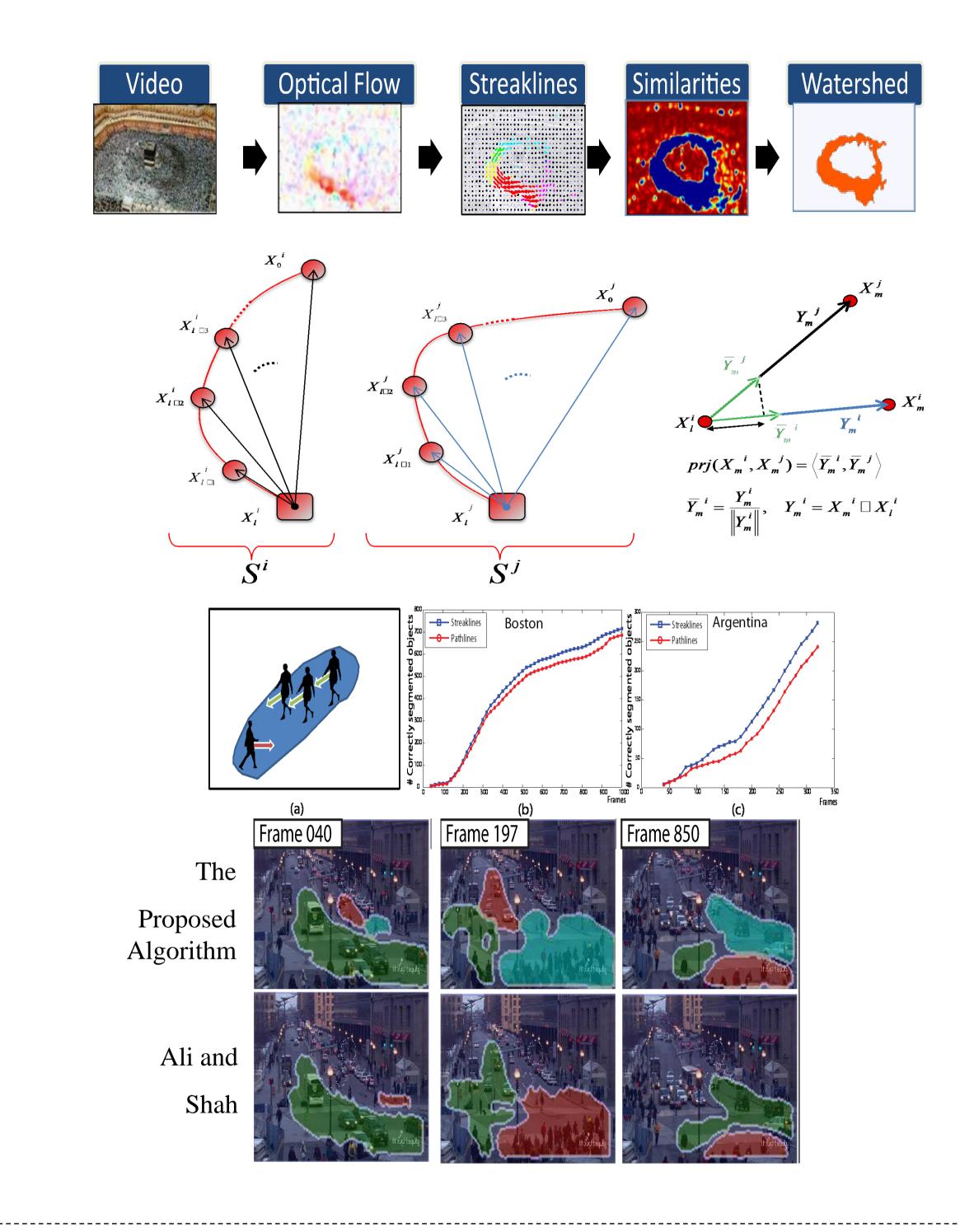


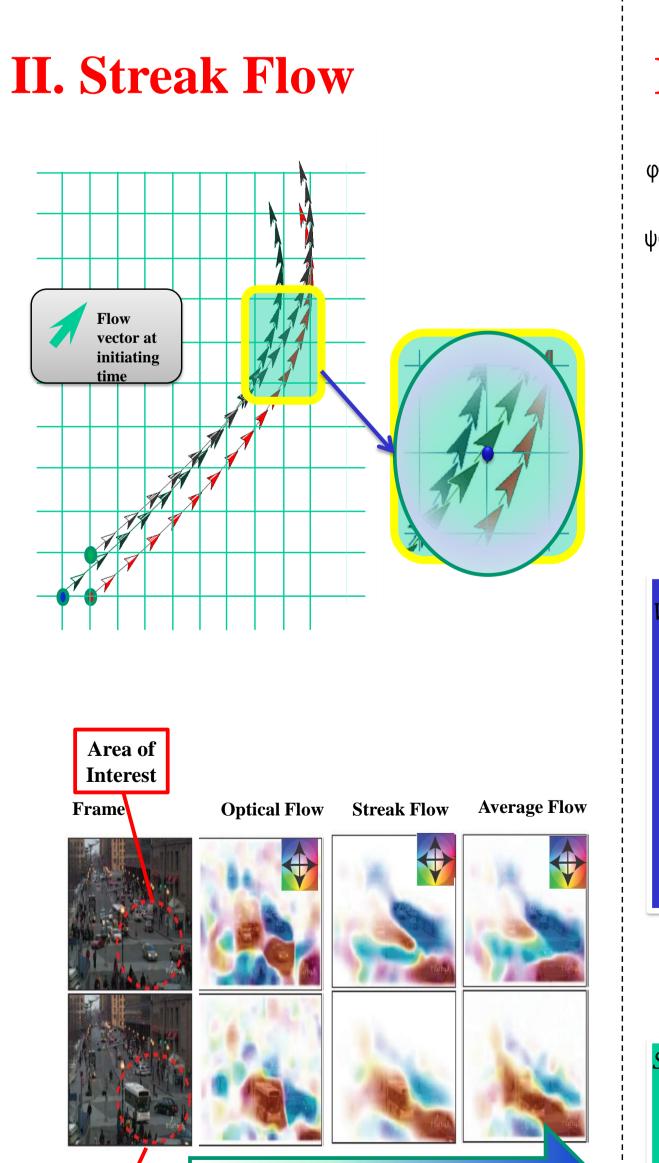
information about the scene, and they are obtained by repeatedly initializing a fixed grid of particles at each frame, then moving both current and past particles using optical flow. A streakline representation of the flow is presented to solve computer vision problems involving crowd and traffic flow.





IV. Algorithms and Results





Instantaneous

Area of

Interest

Average

Steady flow

