Universidad Nacional de San Agustín

Artificial Intelligence

Multiple Sequence Alignment using Particle Swarm Optimization

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A Particle-based Method for Preserving Fluid Sheets [1].

► Year: 2011

Authors: Ando, Ryoichi and Tsuruno, Reiji

► Event: Proceedings of the 2011 ACM SIGGRAPH/Eurographics symposium on computer animation



Problem:

Particle based methods are no good for simulate thin fluids features.

Proposal:

- ► It is a particle-based framework that preserves thin fluid features like those in Eulerian fluid.
- ► Integrates Smoothed-Particle Hydrodynamics (SPH) and Particle-In-Cell/Fluid-Implicit-Particle (PIC/FLIP).
- ► The thin sheets are preserved by inserting new particles at sparse thin points in the sheets. These particles are then quickly removed as they dive into the deep water.

References I



[1] R. Ando and R. Tsuruno, "A particle-based method for preserving fluid sheets," in *Proceedings of the 2011 ACM* SIGGRAPH/Eurographics symposium on computer animation, 2011, pp. 7–16.

