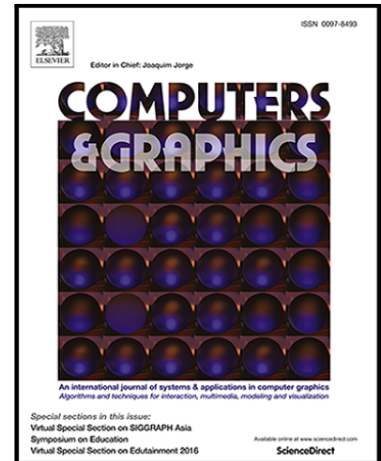


# Accepted Manuscript

Heat-Based Bidirectional Phase Shifting Simulation using  
Position-Based Dynamics

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**Highlights**

- A full-lagrangian model to simulate three states of the matter and four phase changes
- A constraint manager to modify PBD constraints to couple solid-liquid transitions.
- Sigma and logarithmic function-based Condensation and Vaporization.
- Results are visually plausible and the method's efficiency allows interactive rates.

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