

FIG. 1 – Discretization domain and rules applied to each cell.

Alternative modelling approaches

School of Geosciences

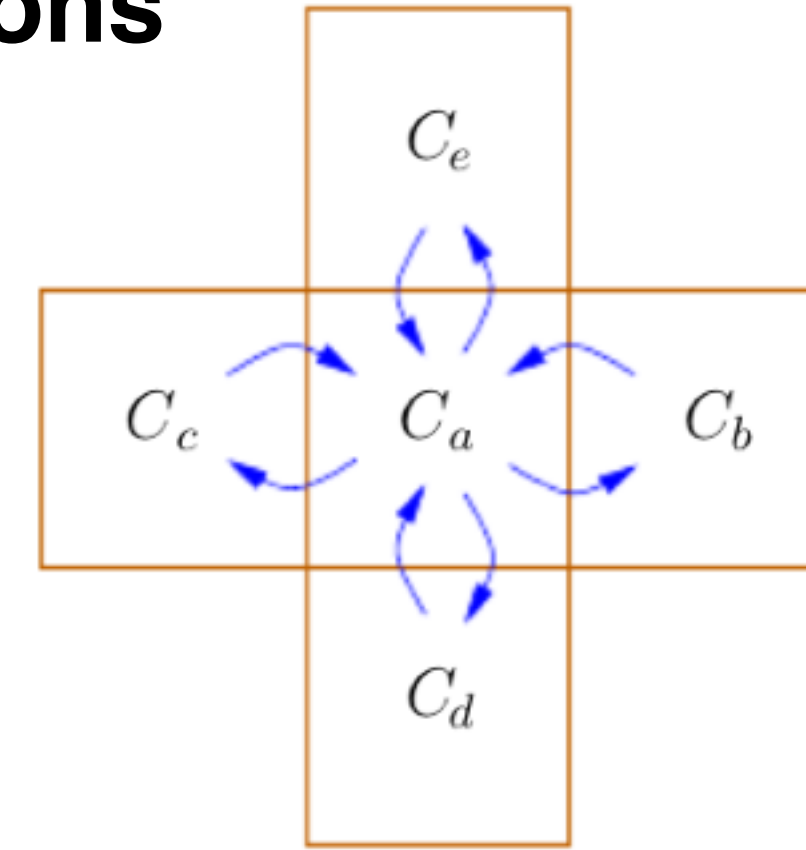
cellular automata - hydraulic applications

- Rule based deterministic model
- Each cell evolves through time according to very simple rules based on contents of neighbouring cells

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Neighboring cells transfer

Collapse of the transferred column

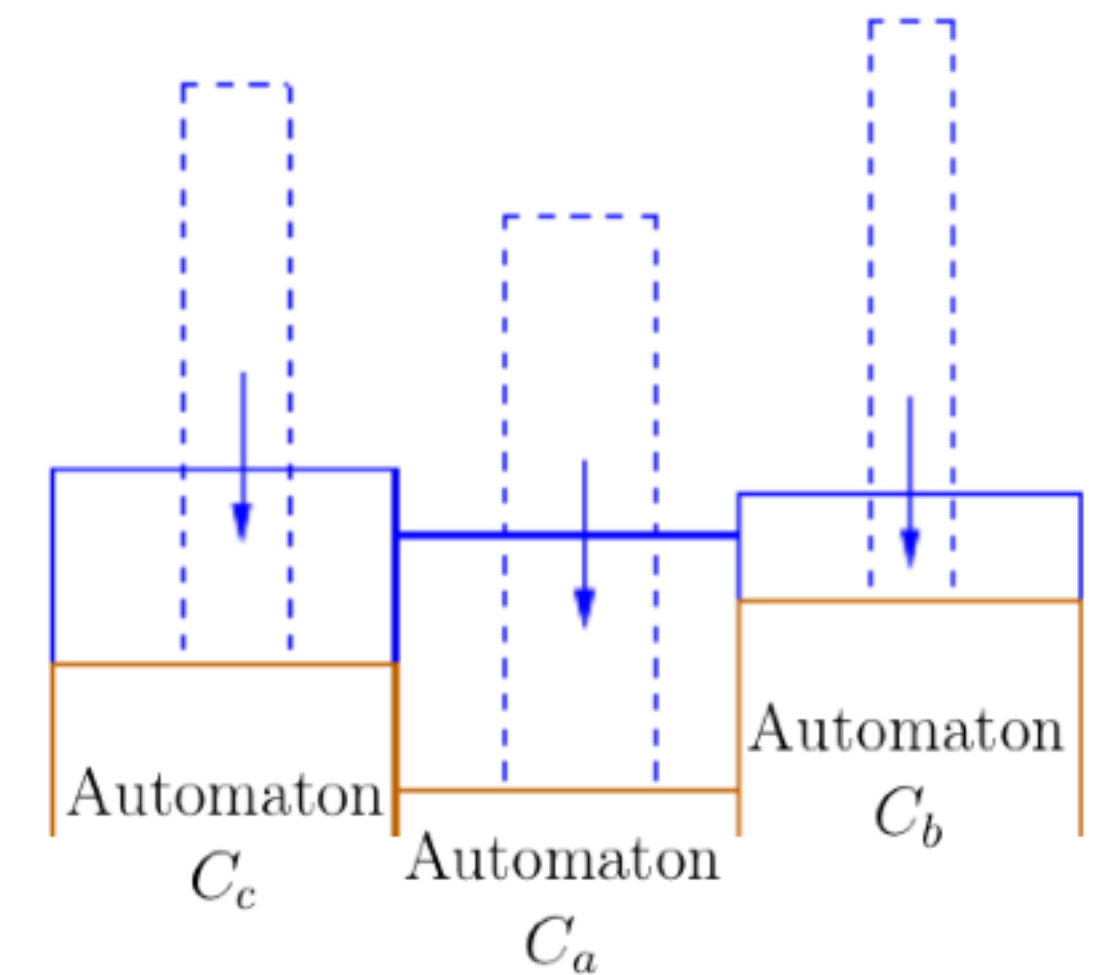
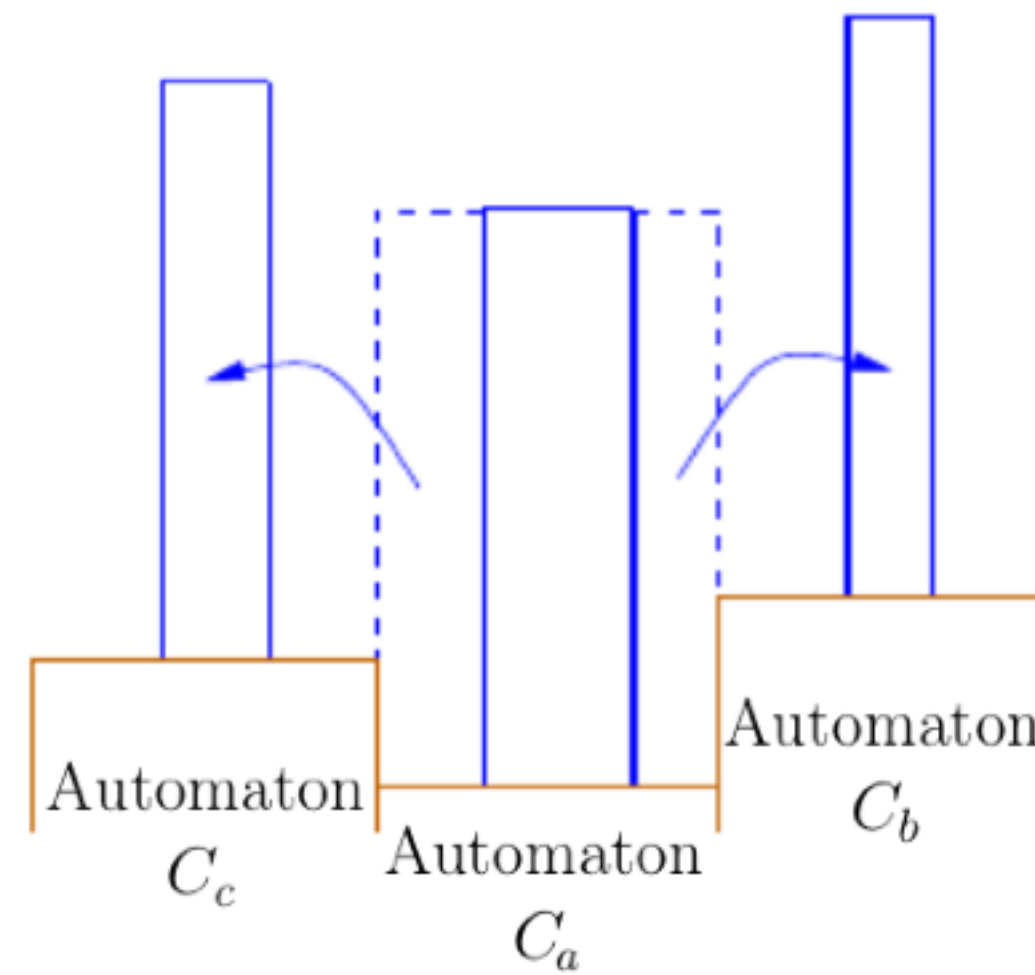
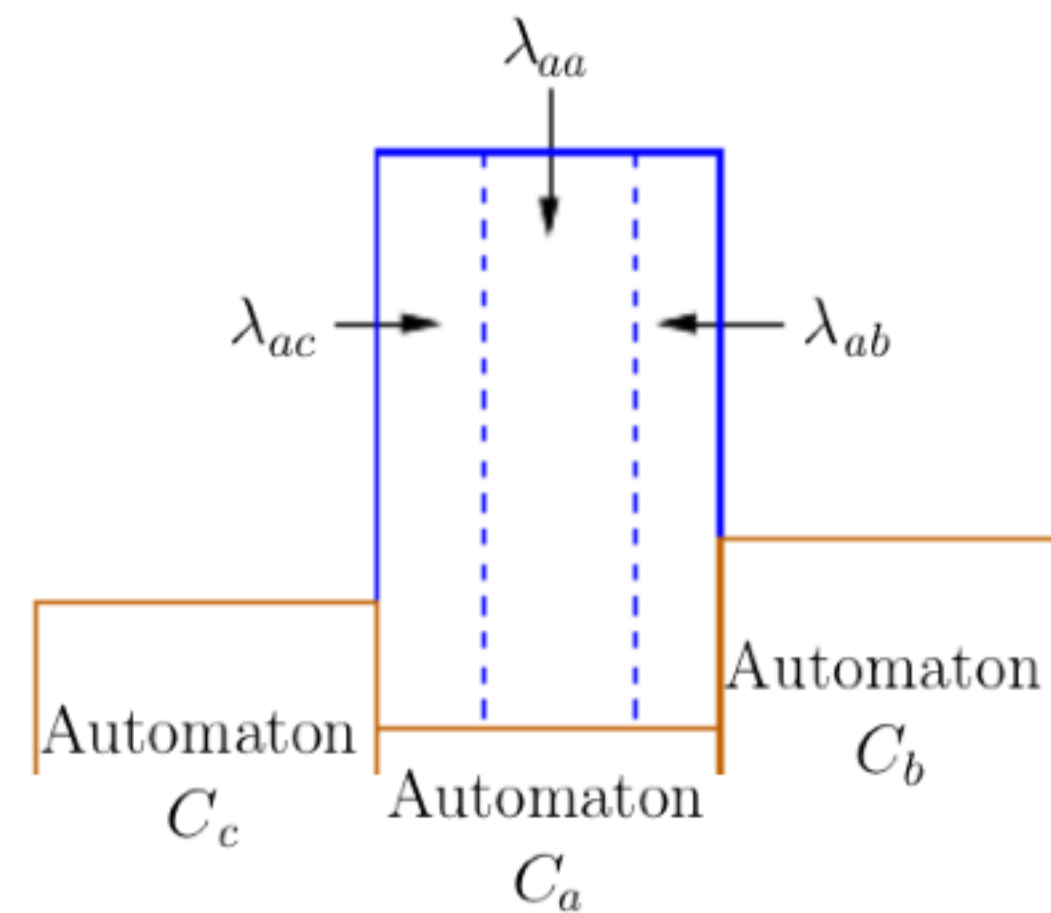


FIG. 2 – Matter and energy exchange between neighbors. Distribution of λ_j that minimizes the work of gravity.

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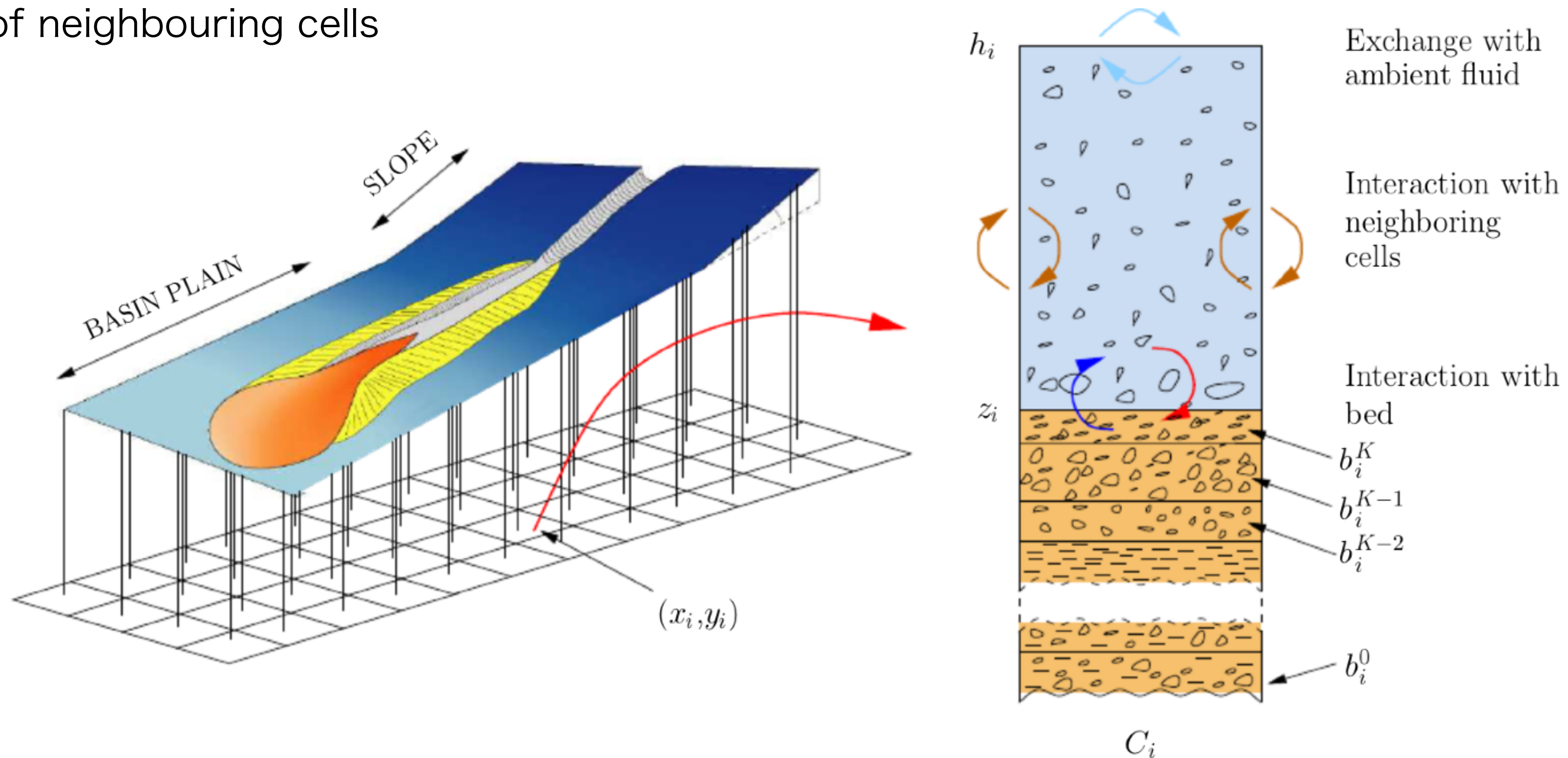


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