Cover

An application example of the new Monte Carlo method to solve the Poisson equation $\nabla^2 \Phi(\boldsymbol{x}) = F(\boldsymbol{x})$ and $\Phi(\boldsymbol{x}) = G(\boldsymbol{x})$ at the boundary. *Left*: The numerical solution for $G = 0$ in the region in red and $F = 1$ in the domain. *Right*: In this method, we can treat separately the selected region in which Φ is evaluated and the region where the boundary condition is set. The result is shown for the case of evaluating Φ only in the selected region in the left figure.

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