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## Commentary

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## Cover

An application example of the new Monte Carlo method to solve the Poisson equation  $\nabla^2\Phi(\mathbf{x})=F(\mathbf{x})$  and  $\Phi(\mathbf{x})=G(\mathbf{x})$  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  $\Phi$  is evaluated and the region where the boundary condition is set. The result is shown for the case of evaluating  $\Phi$  only in the selected region in the left figure.

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