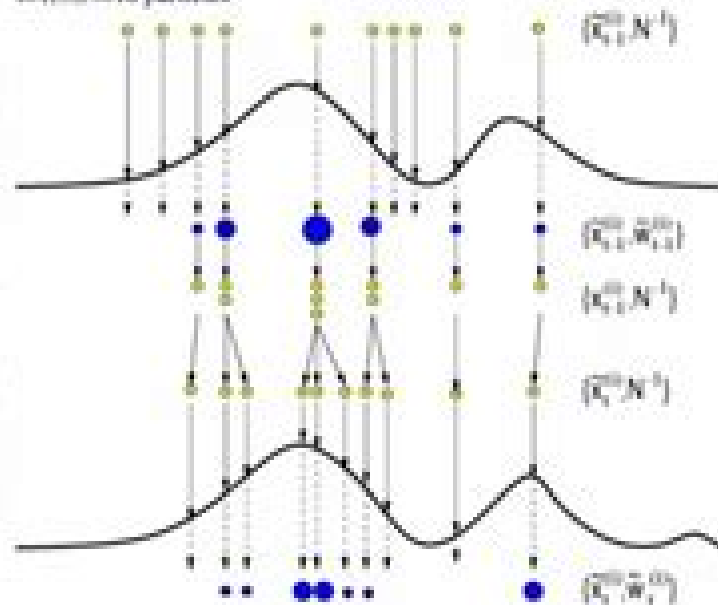


Background

- Sequential Importance Resampling

in 1, ..., N: 10 particles



Algorithm 3.1 The generic SIR algorithm

At time 1

for $i = 1$ to N do

Sample $X_1^{(i)} \sim q_1(\cdot)$.

Set $W_1^{(i)} \propto \frac{\pi_1(X_1^{(i)})}{q_1(X_1^{(i)})}$.

end for

Resample $\{X_1^{(i)}, W_1^{(i)}\}$ to obtain $\{X_1^{(i)}, \frac{1}{N}\}$.

At time $n \geq 2$

for $i = 1$ to N do

Set $X_{1:n-1}^{(i)} = X_{1:n-1}^{(i)}$.

Sample $X_n^{(i)} \sim q_n(\cdot | X_{1:n-1}^{(i)})$.

Set $W_n^{(i)} \propto \frac{\pi_n(X_n^{(i)})}{q_n(X_n^{(i)} | X_{1:n-1}^{(i)})}$.

end for

Resample $\{X_{1:n}^{(i)}, W_n^{(i)}\}$ to obtain $\{X_{1:n}^{(i)}, \frac{1}{N}\}$.

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Jagdish Mehra, Helmut Rechenberg, 2000-12-28 Quantum Theory together with the principles of special and general relativity constitute a scientific revolution that has profoundly influenced the way in which we think about the universe and the fundamental forces that govern it The Historical Development of Quantum Theory is a definitive historical study of that scientific work and the human struggles that accompanied it from the beginning Drawing upon such materials as the resources of the Archives for the History of Quantum Physics the Niels Bohr Archives and the archives and scientific correspondence of the principal quantum physicists as well as Jagdish Mehra's personal discussions over many years with most of the architects of quantum theory the authors have written a rigorous scientific history of quantum theory in a deeply human context This multivolume work presents a rich account of an intellectual triumph a unique analysis of the creative scientific process The Historical Development of Quantum Theory is science history and biography all wrapped in the story of a great human enterprise Its lessons will be an aid to those working in the sciences and humanities alike Novel

Developments in Cryo-EM of Biological Molecules Joachim Frank, 2023-10-06 Cryo EM as it is currently practiced in many laboratories is limited to the visualization of molecules that are in thermal equilibrium at the time before freezing A further limitation is that the existing software does not fully exploit the information that is contained in the images of large ensembles of molecules in thermal equilibrium This book is a collection of recent articles by the author reprinted with introductions and they mainly describe two novel methods in cryo EM one computational and the other experimental that

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