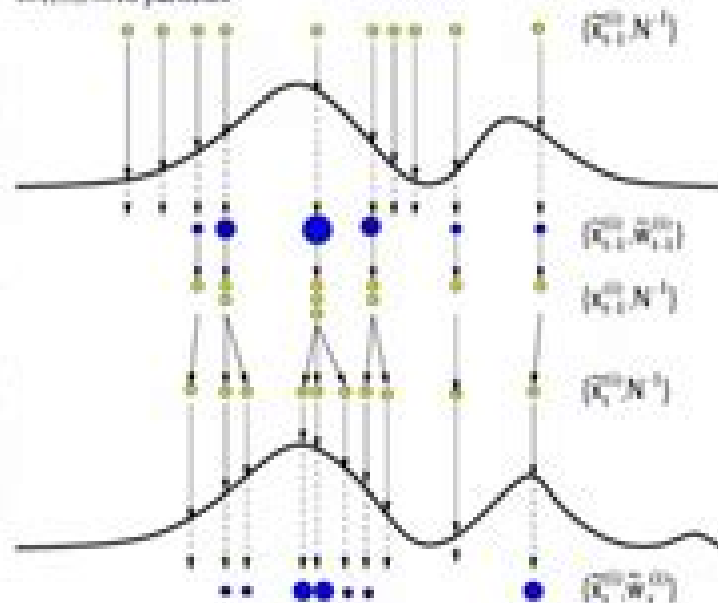


Background

- 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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The Resolution Revolution: Recent Advances In cryoEM, 2016-08-26 cryoEM a new volume in the Methods in Enzymology series continues the legacy of this premier serial with quality chapters authored by leaders in the field This volume covers research methods and new developments in recording images the creation evaluation and validation of 3D maps from the images model building into maps and refinement of the resulting atomic structures and applications of essentially single particle methods to helical structures and to sub tomogram averaging Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers research methods that determine the structures of biological molecules a vital step for understanding their function Contains the technical developments underpinning the advances of cryoEM and captures the exciting insights that have resulted *Recent Developments and Applications of Multi-configuration*

Hartree-Fock Methods Michel Dupuis, 1981 *Fractional Quantum Hall Effects: New Developments* Bertrand I Halperin, Jainendra K Jain, 2020-06-09 The fractional quantum Hall effect has been one of the most active areas of research in quantum condensed matter physics for nearly four decades serving as a paradigm for unexpected and exotic emergent behavior arising from interactions This book featuring a collection of articles written by experts and a Foreword by Klaus von Klitzing the discoverer of quantum Hall effect and winner of 1985 Nobel Prize in physics aims to provide a coherent account of the exciting new developments and the current status of the field The Historical Development of Quantum Theory

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

requires the use of a microfluidic device Both methods have the capacity to shed light on the dynamic behavior of biomolecules Combined they greatly expand the range of applications of cryo EM The book describes a successful approach in which based on cryo EM data all states visited by the molecule in thermal equilibrium are mapped by manifold embedding a method of geometric machine learning and the energy landscape of the molecule is derived It also discusses methods and biological results of time resolved cryo EM following a reaction in a non equilibrium system over a short period of time and resulting in the capture of short lived states that have been inaccessible by standard methods of cryo EM *AEC*

Authorizing Legislation, Fiscal Year 1967: Biology and medicine; isotopes development; communities; training, education, and information; security; program direction and administration; physical research; Plowshare, February 2, march 8, 9, 10, 11, and 15, 1966 United States. Congress. Joint Committee on Atomic Energy, 1966 Reviews costs and benefits of nuclear programs involving Defense Dept and nuclear industries **Nuclear Science Abstracts**, 1975 *Scientific and Technical Aerospace Reports*, 1980 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Matthews' Plant Virology Richard Ellis Ford Matthews, Roger Hull, 2002 It has been ten years since the publication of the third edition of this seminal text on plant virology during which there has been an explosion of conceptual and factual advances The fourth edition updates and revises many details of the previous edition while retaining the important older results that constitute the field's conceptual foundation Key features of the fourth edition include Thumbnail sketches of each genera and family groups Genome maps of all genera for which they are known Genetic engineered resistance strategies for virus disease control Latest understanding of virus interactions with plants including gene silencing Interactions between viruses and insect fungal and nematode vectors New plate section containing over 50 full color illustrations

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