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Other MC volumes

include Morin's Monte

Carlo Simulation in the

Radiological Sciences

(CRC Press; 1988).

There is a companion

book to the text

reviewed here:

Ljungberg, Strand, and

King's Monte Carlo

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Applications Of  
(IOP Publishing; 1998).

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'therapeutic' nuclear medicine, it focuses on internal dosimetry. <P />After a general introduction on Monte Carlo techniques and their applications in nuclear medicine (dosimetry, imaging and radiation protection), the authors give an overview of internal dosimetry methods (formalism, mathematical phantoms, quantities

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of interest). <P  
/>Then, some of the  
more widely used  
Monte Carlo codes are  
described, as well as  
some treatment  
planning softwares.

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Simulations It is used  
to value projects that  
require significant  
amounts of funds and  
which may have future  
financial implications  
on a company. It can  
be used to simulate  
profits or losses in  
online trading of  
stocks. Simulation of  
the values of assets  
and liabilities of a  
pension benefit  
scheme.

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**Simulation and its**

**Applications | CFA**

**Level 1 ...**

A Monte Carlo

simulation consists of a  
large number

(hundreds of thousands  
or millions are typically

necessary to capture  
all the potential

variability of the

outcomes) of “trials” in

which a new set of

simulated variables ( $\epsilon$

in our example) are

selected based on

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defined distributions (a normal distribution is a frequently utilized ...

**Monte Carlo Simulations: An Example of Application ...**

In 2006, inspired by these predecessors, Rémi Coulom described the application of the Monte Carlo method to game-tree search and coined the name Monte Carlo tree search, L. Kocsis and Cs.



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Szepesvári developed

the UCT (Upper

Confidence bounds  
applied to Trees)

algorithm, and S. Gelly

et al. implemented UCT  
in their program MoGo.

In 2008, MoGo

achieved dan (master)

level in 9×9 Go, and

the ...

## **Monte Carlo tree search - Wikipedia**

In physics-related  
problems, Monte Carlo  
methods are useful for

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simulating systems

with many coupled

degrees of freedom,

such as fluids,

disordered materials,

strongly coupled solids,

and cellular structures

(see cellular Potts

model, interacting

particle systems,

McKean-Vlasov

processes, kinetic

models of gases).

**Monte Carlo method**

**- Wikipedia**

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A phantom is a

mathematical model

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designed to represent an organ or tissue of the body, an organ system or perhaps the entire body. Stylized mathematical models of human anatomy provide a relatively efficient geometry for use with Monte Carlo radiation transport codes.

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examples, it illustrates

the use of Monte Carlo

modeling and

simulations in dose

calculation, beam

delivery, kilovoltage

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The applications of the

Monte Carlo method in

medical physics cover

almost all topics,

including radiation

protection, diagnostic



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radiology, radiotherapy and nuclear medicine, with an increasing interest in exotic and new applications, such as intravascular radiation therapy, boron neutron capture therapy and synovectomy.

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By exploiting modern tools such as Monte

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computational models

and high performance

computing clusters, as

well as using clinical

data, we are assessing

several parameters for

the optimization and

the evaluation of the

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protocols in Nuclear

Medicine.

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