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**Mathematicians
have skills that, if
deepened in the
right ways, would
enable them to use
data to answer**

**questions
important to them
and others, and
report those
answers in
compelling ways.
Data science
combines parts of
mathematics,
statistics,
computer science.
Gaining such
power and the**

**ability to teach has
reinvigorated the
careers of
mathematicians.
This handbook will
assist
mathematicians to
better understand
the opportunities
presented by data
science. As it
applies to the
curriculum,**

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**research, and
career**

**opportunities, data
science is a fast-
growing field.**

**Contributors from
both academics
and industry
present their views
on these
opportunities and
how to advantage
them.**

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**One-in-seven
adults and one-in-
five children in the
United States live
in poverty.**

**Individuals and
families living in
povertyÊnot only
lack basic,
material
necessities, but**

**they are also
disproportionally
afflicted by many
social and
economic
challenges. Some
of these
challenges include
the increased
possibility of an
unstable home
situation,
inadequate**

education opportunities at all levels, and a high chance of crime and victimization. Given this growing social, economic, and political concern, The Hamilton Project at Brookings asked academic experts to develop policy

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**proposals
confronting the
various challenges
of America's
poorest citizens,
and to introduce
innovative
approaches to
addressing
poverty. When
combined, the
scope and impact
of these proposals**

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has the potential to vastly improve the lives of the poor. The resulting 14 policy memos are included in The Hamilton Project's Policies to Address Poverty in America. The main areas of focus include promoting

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treatment of other topics useful for applications has been expanded. In addition, the ordering of topics has been improved; for example, the difficult subject of martingales is delayed until its usefulness can be applied in the treatment of

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describe a real phenomenon, it used to be that one compromised between choosing a model that is a realistic replica of the actual situation and choosing one whose mathematical analysis is tractable. That

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is, there did not seem to be any payoff in choosing a model that faithfully conformed to the phenomenon under study if it were not possible to mathematically analyze that model. Similar considerations have led to the

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concentration on asymptotic or steady-state results as opposed to the more useful ones on transient time. However, the relatively recent advent of fast and inexpensive computational power has opened

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forensic science
community,
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vital
important work.
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are often
constrained by
lack of adequate
resources, sound
policies, and
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support. It is
clear that

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change and
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disciplines to
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states. Applications
include coverage
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*interval estimates,
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explanation of its
interface and
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explanations).
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features of the
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nonnegative

returns, and

*maximizing the long-
run average return.*

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an optimal policy
need
exist—providing
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where
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then presents
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policies when they*

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