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Analysis I 11.8
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A distinct
neural network,
including the

nucleus
accumbens as a
central hub, is

active when rats
are exposed to
trapped ingroup

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members they had
previously
helped escape a
trap, but not
for outgroup . . .

**Neural
correlates of
ingroup bias for
prosociality in
rats**

Despite advances
in deep neural
networks,

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computers still
struggle with
the very human
skill of

'imagination.'

Now, a USC
research team
has developed an
AI that uses X
human-like
capabilities to

...

Enabling the

Page 21/100

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'Imagination' of artificial intelligence

While our brain performs 10^8 power calculations per second, today's supercomputers will be able to handle 10^{18} power calculations per second. Does

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Series mean that
supercomputers
already can
simulate ...

In Clinical And

**Why the digital
brain will
prevail over the
analog brain X**

Human
activities, such
as burning
fossil fuels for
transportation

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and electricity,
have worsened
the intensity of
extreme rainfall
and snowfall
over land in
recent decades,
not just in a
few areas but

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**Global evidence
links rise in
extreme**

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**precipitation to
human-driven
climate change**

Melanie Mitchell
has worked on
digital minds
for decades. She
says they'll
never truly be
like ours until
they can make
analogies.

The Computer

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**Scientist
Training AI to
Think With
Analogies**

At the time,
Apple said it
was developing
“a family of
chips. . .

According to the
latest

speculation,
Apple will be
following a

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Similar cadence
to the A-series
chips in the
iPhone and iPad
but with...

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will the next
Pro Macs be?**

A team of
researchers at
USC is helping
AI imagine the

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unseen, a
technique that
could also lead
to fairer AI,
new medicines
and increased
autonomous
vehicle safety.

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**Enabling AI To
Use Its**

"Imagination"

An artificial
neural network

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(ANN) is a series of computer ... which saves time and costs. The corresponding experiments can be performed in silico." Mike X However, while a data infrastructure is ...

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Recurrent Neural Networks Can Boost Upstream Processes

The chaotically moving objects dense clusters digital twin is being developed by students from NUST MISIS, ITMO and MIPT to navigate robots. It is going to

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be a web service
using graph
neural networks
Practice Issues

In Clinical And
**Neural network
to study crowd
physics for
training urban
robots**

The researchers
used software
developed via
MATLAB and

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Simulink for
operating the
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... neural
network (RNN) to
convert the
participant's
brain activity
into a time
series of ...

Psychology Today
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collaborative
psychology By
efforts to drive
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science of
artificial
intelligence
(AI), ...

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**NNSA leads
national
collaboration to
drive next-
generation in AI
for**

nonproliferation

When AI/ML came
onto the scene

in the
supercomputing
community,

common wisdom
was that it

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could do much to
augment HPC
applications but
it would be not
be . . .

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Traditional HPC,
Plasma Physics**

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feature ...

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A team of

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researchers has submitted the system to the Cough Sound Track of the Diagnosing COVID-19 using Acoustics (DiCOVA) Challenge. The covid-19 crisis has tested healthcare systems

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Even modeling

these systems

computationally

is expensive and

time-consuming

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solidification
case, they input
data from
experiments into
their neural
network.

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**Using AI to
predict 3D**

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For the time

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that... of
training neural
nets, borrows
its methodology
from Darwin's
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perhaps human
beings are not
simply a sum of
objective
functions, a
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**Embracing the
whole you: You
are more than
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Join AI & data
... series of
"fully
connected"
layers of
artificial
neurons that map
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output expected

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Today, remote
sensing
technology is an

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essential tool

for

understanding

the Earth and

managing human-

Earth

interactions.

There is a

rapidly growing

need for remote

sensing and

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observation

technology that

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enables Data
monitoring of
world's natural
resources and
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managing
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helping the
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and productivity
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As an
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three parts, the

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metrics, and

their major
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both remote sensing and

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role. The book

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the conference
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IFIP, the
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Information

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Processing (WCC-
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Santiago, Chile
in August 2006.

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the IFIP

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Group 12.5

(Artificial
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Applications).

All papers were
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least two
members of our
Programme

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best papers were
selected for the
conference and
are included in

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this volume. The international nature of IFIP is amply

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Debenham and myself. IFIP AI 2006 also included the Second IFIP Symposium on Professional Practice in Artificial Intelligence, organised by Professor John Debenham, which ran alongside

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the refereed papers. I should like to thank the conference chair, Professor Debenham for all his efforts in organising the Symposium and the members of our programme committee for reviewing an unexpectedly

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applications is
clearly

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and importance

of these
applications is
clearly

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When data
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there is a risk
that
measurements
within the same
group are not
independent,
group-specific

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to account for
such within-
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associations.
Regression
models that
contain such
group-specific
random effects
are called mixed-

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regression

models, or
simply mixed

models. Mixed

models are a
versatile tool

that can handle

both balanced

and unbalanced
datasets and

that can also be

applied when

several layers

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of grouping are present in the data; these layers can

either be nested or crossed. In

linguistics, as in many other

fields, the use of mixed models has gained

ground rapidly over the last decade. This

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methodological evolution enables us to build more sophisticated and arguably more realistic models, but, due to its technical complexity, also introduces new challenges. This volume brings together a

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number of
promising new
evolutions in
the use of mixed
models in
linguistics, but
also addresses a
number of common
complications, m
isunderstandings
, and pitfalls.
Topics that are
covered include
the use of huge

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datasets, dealing with non-linear relations, issues of cross-validation, and issues of model selection and complex random structures. The volume features examples from various subfields in

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linguistics. The book also provides R code for a wide range of analyses.

The contributors to Best Practices in Quantitative Methods envision quantitative methods in the 21st century,

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identify the best practices, and, where possible, demonstrate the superiority of their recommendations empirically. X
Editor Jason W. Osborne designed this book with the goal of providing

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Series Data with the
most effective,
evidence-based,
modern

quantitative
methods and
quantitative
data analysis
across the
social and
behavioral

sciences. The
text is divided
into five main

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Sections Data
covering select
best practices
in Measurement,
Research Design,
Basics of Data
Analysis,
Quantitative
Methods, and
Advanced
Quantitative
Methods. Each
chapter contains
a current and

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expansive review
of the
literature, a
case for best
practices in
terms of method,
outcomes,
inferences,
etc., and broad-
ranging examples
along with any
empirical
evidence to show
why certain

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techniques are better. Key Features: Describes important implicit knowledge to readers: The chapters in this volume explain the important details of seemingly mundane aspects

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of quantitative
research, making
them accessible
to readers and

demonstrating
why it is
important to pay
attention to
these details.

Compares and
contrasts

analytic
techniques: The
book examines

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instances where there are multiple options for doing

things, and make recommendations as to what is the "best"

choice—or choices, as what is best often depends on the circumstances.

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procedures to
update and
explicate
traditional
techniques: The
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scholars present
and explain new
options for data
analysis,
discussing the
advantages and
disadvantages of
the new

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depth,
Theory And
describing how
Practice Issues
to perform them,
and Clinical And
demonstrating
Cognitive Neuro
their use.

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Audience: Mike X
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vanguard of
research methods
for the 21st
century, this

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researchers who
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quantitative
methods.

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In Clinical And

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reviews a number
of issues

including: Why

data generated
from POC

machines are

considered as

Big Data. What

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are the Data
challenges in
storing,
managing,
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knowledge from
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it inefficient
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What big data
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tools can be
used efficiently
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POC devices?

This book shows
how it is
feasible to

store vast
numbers of
anonymous data
and ask highly
specific

questions that
can be performed
in real-time to
give precise and
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