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hence simple!**

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**Linear
Regression.
Linear
regression is a
supervised**

**learning
technique
typically used in
predicting,
forecasting, and
finding
relationships
between
quantitative
data. It is one of
the earliest
learning**

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***techniques,
which is still
widely used. For
example, this
technique can
be applied to
examine if there
was a
relationship
between a
company's
advertising***

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**budget and its
sales.**
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**Further
generalizations
led to the third**

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stage, called the

**Principles-and-P
arameters-**

**Theory, which
showed most of
the properties
accounted for
by idiosyncratic
syntactic rules
to be derivable
from quite
general**

***principles.
Individual
languages seem
to differ only
with respect to
lexical
information and
a restricted set
of parameters
to which the
otherwise
universal***

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**principles are
sensitive. In ...**
Engineering

**[Informatics -
Wikipedia](#)**

***We aim to
understand the
fundamental
principles
through which
organisms***

***generate
behavior and
cognition while
linked to their
environments
through sensory
systems and
while acting in
those
environments
through effector
systems.***

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***Inspired by our
insights into
such natural
cognitive
systems, we
seek new
solutions to
problems of
information
processing in
artificial
cognitive***

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systems. We
draw from ...
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[Neuroinformatics - Wikipedia](#)

***Covers the
principles of
neurocomputing
with artificial
neural networks
widely used for***

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**addressing real-
world problems
such as
classification,
regression,
pattern
recognition,
data mining,
time-series
prediction. We
look at
supervised and**

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*unsupervised
learning. We
study
supervised
learning using
linear
perceptrons,
and non-linear
models such as
probabilistic
neural
networks,*

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multilayer ...
For Science

Engineering
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[Science |](#)
[Goldsmiths,](#)
[University of](#)
[London](#)

**Second,
establishing
new principles
for machine**

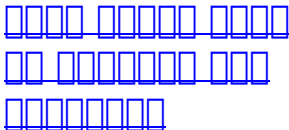
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**learning is
essential. With
the**

**development of
deep learning
and the
replacement of
manual feature
engineering,
raw data will be
represented
more effectively**

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***in the future.
However,
experts still do
not understand
the basis on
which DNNs
select features
and the
meanings of the
selected
features. This
renders the***

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**results of deep
learning ...**
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ELE 511
Quantum
Mechanics with
Applications
This course

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covers the principles of quantum mechanics, including applications of relevance to students in applied physics, materials science and engineering.

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**Topics include
the concept of
Hilbert Spaces,
Schrodinger and
Heisenberg
Representations
, Bound State
problems in
one, two and
three
dimensions,
consequences of**

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**symmetry,
Angular
momentum ...**

□□□□□□□□□□ -

BJTU

***Biography. I am
a postdoctoral
research fellow
in Stanford
University,***

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**working with
Prof. Lei
Xing.**

**Before
that, I obtained
my Ph.D. degree
in the
Department of
Computer
Science and
Engineering,
The Chinese
University of**

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***Hong Kong,
supervised by
Prof. Pheng-Ann
Heng and Prof.
Chi-Wing Fu in
July 2019.***

***Previously, I
received the
B.Eng degree
from
Department of
Computer***

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**Science and
Technology in ...**
Engineering

**Data-Driven
Modelling:
Concepts,
Approaches and
...**

□□□□□□□□□□. □□□□□:
□□□□ □□□□ ...

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***National Science
Fund for
Distinguished
Young Scholars
(2013) Second
Prize of Natural
Science Award
(Rank 1st, by
Ministry of***

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**Education,
2012) CAS
Award for
Outstanding
PhD Supervisors
(2012, 2014,
2016) CCF
National
Excellent
Doctorial
Dissertation
Award for**

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Advisor (2010)
Pollyanna Chu
Award for
Excellent
Advisor (2013,
2014, 2016)

Nanoscale
Memristor
Device as
Synapse in
Neuromorphic

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III
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Many swarm optimization algorithms have been introduced since the early 60's, Evolutionary Programming to the most recent, Grey Wolf

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Optimization. All of these algorithms have demonstrated their potential to solve many optimization problems. This paper provides an in-depth survey of well-known

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**optimization
algorithms.
Selected
algorithms are
briefly
explained and
compared with
each other ...**

.