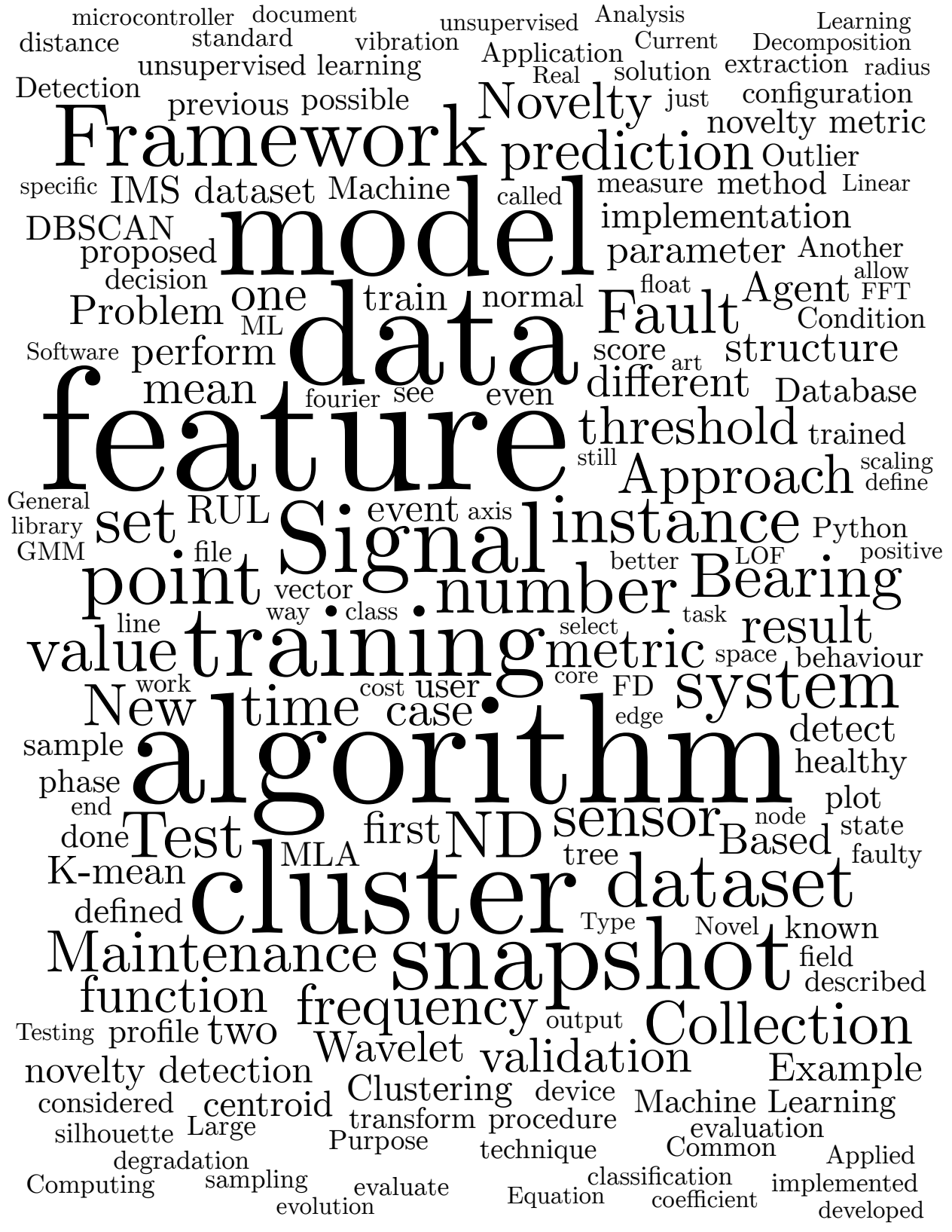
microcontroller
document
unsupervised
Analysis
Learning
distance
standard
vibration
Current
Decomposition
Application
unsupervised learning
extraction
radius
Real
solution
Detection
previous
possible
Novelty
just
configuration
Framework
novelty metric
prediction
Outlier
specific
IMS
dataset
Machine
called
measure
method
Linear
DBSCAN
model
implementation
proposed
parameter
Another
decision
allow
float
Agent
FFT
Problem
one
train
normal
Fault
Condition
ML
data
Software
perform
score
structure
art
mean
fourier
see
even
different
Database
feature
threshold
trained
still
Approach
scaling
define
General
library
set
RUL
event
axis
Signal
instance
Python
GMM
file
better
LOF
positive
point
number
Bearing
vector
way
class
task
line
select
result
value
training
metric
space
behaviour
work
cost
user
core
FD
system
New
time
case
edge
algorithm
detect
sample
healthy
phase
plot
end
node
done
Test
first
ND
sensor
Based
state
MLA
tree
faulty
K-mean
cluster
dataset
defined
Type
Novel
known
Maintenance
snapshot
field
function
frequency
described
Testing
profile
two
output
Collection
Wavelet
validation
novelty detection
Example
considered
centroid
Clustering
device
Machine Learning
transform
procedure
silhouette
Large
Purpose
evaluation
technique
Common
Applied
degradation
Computing
sampling
classification
implemented
evaluate
Equation
coefficient
evolution
developed