

Words for 3-D Vision

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Linear Algebra Done Right

audacious
torturous
banish
make up for ...
in a fasion
genuine / formal
, due to the next class
without charge
I'm no longer around

first brush
immerse yourself in ...
an emphasize on attaining ...
zip through a page
on your part
ponder
internalize
without regard to ...
owe a debt
heritage
antiquity
Bestowing proper credit on ...
undertake
In no case should ...
dispense with
clutter
vague
as rigorously defined as
philosophy
lurk
proposition
corollary
once and for all
be enlarged with
triplet
transport
paralelepiped
Roughly speaking, ...
anticipate
derive / derivation
refer to ... as ...
instantaneous / spontaneous
be doomed to ...

1 Chapter 2 & Chapter 3

rudiment / rudimentary

In a broad figurative sense

frescoe

mosaic

landscape

It's no coincidence

proficient

matter

vibrant

compelling

rather sophisticated

indicative

portray

graph

irradiance

by no means trivial

diffraction / refraction / reflection

germane

we can argue with

emit

cone

negligible

undeflected

upside down

subtend

radiance flux

consist in ...

compensate

...outlined above

...thus obtained

articulate / articulation

aberration

counterpart

2 Chapter 4

reconcile
at the outset
moreover
discern / discernible
presumably
photom
discrepancy
corrupt
manifestation
counteract
envision
opaque
suggestive
cardinality
count on ...
conceive
rephrase
lend itself to ...
lump
departure
scatter
ambient
translucent
anisotropic
commonplace
hint
How do we proceed ?
ill / well posed
an abuse of notation
tilde / wiggle
identical
more diagonally
moderate
nonuniform
, irrespective of ...
...made of ...

regard ... as ...
decent
curvature
marble
distinctive
elucidate
extended
qualitative / quantitative
diffuse
warp
substantial
prune (out)
pyramid
jerk
whilst
shearing
field
even if
chameleon
specularity / specular
among other things
mega
heuristic / heuristics
discriminate / discriminative
mannequin
dummy
doable
stroboscope
agenda
alternate among / between
side benefit / effect

MVG Lecture 8, 9, 10

fascinating
pursue

schematic
involved
suboptimal
haunt
recipe
reasoning
inference
pathological
chances are that ...
reminiscent of ...
...mingled with ...
derive / derived / derivation
bombastic

3 Chapter 5

unveil
photogrammetry
Without loss of generality / continuity
characterization
sufficiency / necessity
draw attention to the case that ...
three out of the four ...
parallax
exercise caution to ...
be of more significance for ...
bury
uncontroversial
universally accepted
probable / improbable
When combined with, ...
In what follows, ...
oversight
In the remainder of ...
multimodal
optimality

4 Chapter 8

panoramic / panorama

at most

taxonomy

gross errors

pertain to

thesaurus

suspicion

be promoted by ...

quadrilinear

annihilate

quadruple

clarify / clarity / for clarity

rectilinear

glimpse

perturb

synthesis

concave

crank up

isoline

asymptotic

be inferior to

zig-zag

contract

paraboloid

provided (that)

in this regime

revert to

profit from

extremality / extremity

quasi

damp

overlook

be (all) set to go

silhouette
contour
a whole lot
monocular
footage
circumvent

5 Direct approaches for Visual SLAM

invariably
devastate
deteriorate
degrade
nuisance
sideways
close by
soap films
in-between
revision
residuum / residual
voxel
more or less
alleviate

6 Chapter 11

multifaceted
irregular
polygonal
so as to ...
convolve
forcibly
suppress
tile

disparate
elaborate
contrast
sawtooth
aliasing
sinusoidal / sinusoid
convey
transmission
adequate
waveform
ego-motion / ego / egoistic / egoistical
primitive
multiscale
superpose
be similar in spirit to ...
compromise
macroscopic
rationale
caveat
radically
forego
laden
be reputed to ...
putative
orphan
underlying
be free of ...
handful of ...
render sth. be
settle for sth.
set up
two orders of magnitude
uneven
play with ...
in place of ...
extrapolate
convex hull
carve

tetrahedra
prism
arch
surfaces of revolution
bookkeeping
entail

7 Review

long known
indispensable
rational / rational number
quotient

8 Introduction to Linear Algebra

all-important / vitally important / crucial
hammer away at the difference between ... and ...
... back off from ...
seesaw / teeterboard
spreadsheet
This is more than ...
at once / at the same time
stand for ...
either way
humble
fall into place
The odds are ...
basic facts
regard ... as ...
common sense
magician
sweep
provision

subroutine
abnormal

9 Toefl Listening

folk / fairy tale
act out
narrate
props
scenery
be disillusioned with
be grappling with
symbolize
seemingly
unsolvable
turmoil
bare
... be a departure from ...
make us see
be swept up
I'd love / like to ...
... be the same ... as ...
the significance difference is with ...
costume
... be teeming with ...
organism
... get as much popular attention as ...
whale
microscopic
algae
... aren't as exciting
bulk, bulk of ...
plankton
fresh water
mystery
not the way birds do

must
commute / commuting
stimulus / stimuli
sun's rays
barely
penetrate
away from
sunlight
head back toward ...
illuminate
expend
predator / predator avoidance
Make sense, doesn't it ?
But what do we do with ... ?
at great depth
light up
bioluminescent
despite all these
by sight
presence and absence
prey / prey on
ultra-violet
conserve
feeding
digest
archaeology
go out into the field
shovel
an array of
inter-disciplinary / multi-disciplinary
muon
... result from ...
subatomic
start over
basically
proton
zip through
outer space

be critical for ...
be closely based on ...
occasionally
hardly ever ... anymore
originally
controversial
filmmaker
purity
over time
orchestra
if wanted
drum, rolling of drums
... or whatever
But that wasn't as common
..., the ones concerned about
Trouble is(was), ...
the luster wears off
commerce
was it ever ?
the commercial types
now that ...
visual medium
stage
straight adaptations from ...
since ...
all they pretty much did was ...
on the mark
nonsynchronous
expressive
have experience with ...
live radio
technician
... that makes sense to them
less obvious
Anyway, ...
look at this in various ways
radical
advocate

a bit of an exaggeration
What meant to say was ...
making money
proliferate / proliferation

10 Miscellaneous

striving / strive
grand goals
core mission
non-profit
fuel ...
openly
sponsor
editorial publications
across the world
workshop
panel / panelist
webinar
mailing-list
newsletter
disseminate
more collaborative / inclusive
have sb. on-board
curate
advisory board
enthusiast
at scale
alchemist
predictive maintenance
schedule a meeting / call
quota
coffee break
poster
interface a new problem with ...
peer, peer review, peer pressure

be articulated in two phases
announce / announcement
adherence to ... / adherent
final aggregation score
ever more
exclusively focus on ...
memory overhead
take / draw inspiration from ...
disentangle
a surge of
mediate, be mediated by ...
neurocognitive
sensorimotor
remain a long-standing challenge for ...
...factor in ...
curriculum
progressively / progressive
over long time spans
interfere with ...
abrupt / abruptly
excel = be master of ... / excel at ...
a batch of
pragmatic pragmatically
hinder
methodology
developmental
in scenarios of ...
timely
refine / refinement
on the basis of ...
mammal / mammalian
throughout the lifespan
contingency
sustainable / sustainability
sustained = continuous
neurophysiological / neurophysiology
visiting student
eligible

democratic / democracy
... be made possible with / by ...
consultant
lineup
given
on a daily basis / on a regular basis
cutting edge
underway
initiative
hub of information
didactic
avalanche
with ... in mind
value ...
showcasing
venue
cause
bibliography / bibliographic
hiccup
antithetical
antipodal
utterly
nerve ...
bombard / be bombarded with ...
arrange = lay out
as originally conceived
living creatures
be adept with ...
repurpose
in some ad hoc way
dispute
in any case
self-imposed
submarine
harness the power
towards its own purposes
steer
accrue

brilliant, a brilliant idea
metaphor
corollary
teleoperation
rebel / rebellion
be constantly changing / evolving
regularity
a rough idea
string
transpire
unfold
at its own pace
prose
sensible
unorthodox
peg, pegged to ...
entrust
probe
waterfall
definitive
cascade
tailor, be tailored to ...
diploma
cohort, a diverse cohort of ...
attest / attested
defer
transcript
comparable
proficiency / proficient
postsecondary
ivy
a huge time commitment
rigorous
embark
accredit / accredited
phenomenal
in no way
disrupt / disruption

breadth
demonstrated leadership
deposit
flush
await / be awaiting
turtle / tortoise
carnivorous / herbivores
imperative
pervasive
scavenge / scavenger
refrain from ...
scarcity of ...
sensitization
habituation
exposure
a well lit room
reciprocal
retreat into ...
secrete
ion
astounding
finer
acuity
causal / casual
differentiate
conditioning
be made famous by ...
saliva / salivate
..., as such in the example of ...
cattle
deter ... from ...
in the wild
uncover
inhibit / inhibition
octopus
jar
crab
...trapped inside

hint at ...
... be paired with ...
fade away / out
renewed
embrace
malleability
regulate
compensatory
homeostatic
hippocampus
neocortex
human subject research
the vast majority of ...
modality-specific
ecological
multisensory
embody
in one's infancy / infant
stepping stone
ad-hoc
astonishing
assimilate
rehabilitate / rehabilitation center
modulate
overarching
predominant / prominent
profile
grant
seminal work / seminal fluid
ocular
newborn
kitten
deprivation
... be characterized by ...
... with the aim to ...
comprise
replicate / replica / replicant
neuroscience

finding
preferential
transient
amend
be contingent on ...
should / if
usher
interleaved
in favor of ...
graceful
richness
long-standing
mitigate / alleviate
...to make sense of ...
be immersed in ...
spatio-temporal
make massive use of ...
reservoir
opt, opt to
plastic / elastic
embed / embedded
intractable
surrogate / surrogate mother
mutable / mutation
...in response to ...
accommodate
enforce
vanilla
resemble
plausible
habituate to ... / habituated
these results reinforce that ...
... be accounted for
interplay
episodic
rehearsal
cause-effect
ambiguous

revise
spontaneously
a wealth of ...
crossmodal
schematic / schematic view
valuable
intricate
dictate / be dictated by ...
staged
bootstrap
tutor / tutoring
unveil
disclose, disclose the cause
bilateral
innate
deceptive / deception
scaffold
exogenous / endogenous
be congruent with / congruency / congruent triangle
perceptual
bind
causal inference
stationary
disregard
radically
over the course of millions of years
underpin
evolutionary
in-silico
As a consequence = Consequently
inspiration has originated more strongly from ...
acronym
genetic
... take place as ...
ambitious
... derived from ...
arguably
set the stage for ...

a remarkable increase in ...
dedicated
... than in the past
resonate with the readers / resonate
touch upon
in the remainder of ...
with the intent / intention to ...
make-up
manifest / manifestation
blueprint
zygote
nurture
cultivate
be now more aware of ...
highlight the importance of ...
deceive
make no pretence of ...
diversity and inclusion
open-ended / open-endedness / open-ended questions
pathway
an alternative to ...
empower
synergy / synergy effect / in synergy
statics / dynamics
conducive / be conducive to ...
reside
delegate
foster
cope with ...
genotype
aspiration
resurgence
synopsis
speculation
pillar
In essence = Essentially
... in light of ...
bloom

around 2019
shift
It's not after long that ...
bet on ...
masterfully
expertise
neat
be indebted to sb. for sth.
pickle
customary / customarily
brevity / clarity
wit
perturbation
mastery
neglect
performant
ingest
comply with ...
trademark
aforementioned
malformed
blob
glob
a patient is admitted to the hospital
administer drug
concerned
relative
a sick thought
not uniformly understood
moderately
be wrong in ...
subjective belief
a rational person
conscious, make conscious use of ...
inner-held
... be judged to ...
dwell (further) on ...
philosophical issues

strike a balance
outgrowth, an outgrowth of ...
involvement in sth.
attend a course
span the entire spectrum
Accordingly, ...
In this spirit, ...
sketch
otherwise
stand in the way of ...
attentive
conditioning
omit / omission
recitation
elsewhere
simplicity in exposition and sophistication in analytical reasoning
a rich set of ...
go into debt / be in debt
acknowledge
be thankful to ...
Last but not least, ...
take sth. (it) as a given (that ...)
a short review about ...
antiquity
at the outset
toss, a coin toss
a die roll
conceivable / conceivably
excerpt
in accordance with ...
collective
immediately obvious
underlying
Strictly speaking, ...
pathological
dart, throw a dart
qualify
constitute

successive
 identify
 namely
 downstream, ... downstream from ...
 For example; As another example
 Proceeding similarly, ...
 predede, preceding
 settle on ...
 by necessity
 counterpart
 ... differ from ... in that ...
 spin
 ... hinge on the fact that ...
 incidentally
 legitimate / legitimacy
 tractable / intractable
 Invariably though, ...
 inscribe / inscribed
 equilateral triangle
 millennium
 game of chance
 touch upon
 lay a / the foundation for ...
 raise the standard
 rigor / rigorous
 influential
 axiom / axiomatic
 pervasive / pervasively
 ... in conjunction with ...
 traverse / traversal
 be inferior to ...
 a much discussed problem
 stick to / adhere to / insist on
 under this strategy
 celebrated
 ... amount to ...
 malignant / benign tumor
 a common first thought

aircraft
...state that ...
In words, ...
subsystem
subinterval
...consist in turn of ...
populate, be populated with ...
dial up
modem
the probability of interest
facility
facilitate
combinatorics
in principle
thought
a large portion of ...
desired
consecutive / contiguous
cardinality
algebraic identity
instrument / instrumental, instrument readings
two raised to the fifth power = two to the fifth
a notion of
associate with sth. sth.
focus exclusively on ...
qualifier
a lot of new ground
the general line of development
genuine / genuinely, genuinely new
give rise to a value
In what follows, ...
...in place of ...
throughout
conceptually straightforward
range over ...
By a similar argument, ...
...is through ...
characterize

be either for or against ...
For all its simplicity, ...
... be sketched in the section 3
Note that here and elsewhere, ...
the coin comes up a head with probability p
prior
refer to ... as ...
..., specialized to ...
come up for the first time
be monotonically decreasing with ...
misspell
typo
... be well modeled with ...
justification
It is often desirable to ...
monetary reward
... in proportion to ...
a weighted average of ...
As motivation, ...
anticipate
roughly equal to ...
dispersion
pitfall
It is not generally true that ...
at a speed of ...
... is obtained by nothing that ...
prototype / prototypical
attempt, attempt to
coercible
resist
be evolving
I'm still not done learning
set up a structure for ...
... as I see it
elaborate upon ...
groundwork
one thing that initially surprised me was ...
... come into play

There is no one right way to ...
methodical / methodically
linguistics
field of study
rhythm / melody
keen
modular mind
vocal, vocal awareness
chunk
first-hand
unconventional
intonation
stick
clap
consonance / dissonance
palate
most of the time
muscle / muscular
youngster
stick out / stick way out
dark is drawing in
cavity
nasal
to name a few
look up ...
make sb. sure
check out ...
go over ...
due to a difference of opinion
homephone
make a phone (call)
repeat out loud / practice out loud
drill ...
you won't transform overnight
dedicated, be dedicated to ...
singleton
bisect / bisection
timezone

polaris
anagram
palindrome
congestion
pertain, pertain to ... = belong to ...
universe
In the same spirit, ...
be destined to ...
... argues in favor of ...
regardless of ...
flaw / flawed
to some extent
paradox / paradoxical
scrutinize
a great deal of information
Roughly speaking, ...
devil / devilish
quirk / quirky
testament
a general agreement between intuition and what is mathematically correct
... extends naturally to the case of ...
imperative
dialog
weave / weaver, be woven into ...
restraint
budget
Over the past three decades or so, ...
purgeable
bump
synergy
affordance
induce
worthwhile
As machine learning is maturing, ...
formalism
toy / non-toy problem
plague, be plagued by ...
reinvention

induction / inductive
speedometer
insightful
... be called for
In any case, ...
cf. = confer
Graphically, ...
gambler
anticipate / anticipated
for the time being
light bulb
burn out
elapse
meteorite
Sahara desert
..., be it through ... / Be it through ...
staircase form
line of argument
a case in point
in point of ...
Loosely speaking, ...
snowfall
celebrate / celebration / celebrated
conclude
corrupt
... parallel ...
In complete analogy with ...
vicinity
needless to say = It goes without saying that ...
needle
mark the origin of ...
a surface is ruled with lines
line segment
acute angle / obtuse angle
midpoint
justify
the remaining time up to completion
metro (train)

metropolitan
board the train
be analogous to ... / in analogy to ... / an analog of ...
... carry over to the present context
schematic
It suffices to ...
The converse of this statement is also true
stencil / template
chromosome
bilingual
in a row, 7 days in a row
versatile / versatility
variability
interlinked
in the vicinity
but they still can't rival homo sapiens for complexity
proposition
be agnostic to ...
they can be advantageously combined
better off, better off alone / better off without ...
nuisance, nuisance variable
latent variable
preclude
resort to
causality
neat / neatly
punctuation marks
unleash
I find them severely wanting in abilities
arsenal
divulge
ideology
triumph
..., but that wasn't always the case
proceed in chronological order
hype
extravagant
publicity stunt

clip
cardinality
a means to an end
It's almost exclusively used for visualization
By itself this isn't very useful, but ...
genre
be akin to ...
induce
spark a great deal of interests
lately = recently
In the past this was all but impossible, ...
in complex learning regime
endorse / endorser / endorsement
amortize / amortization
resume membership
intra- / inner-
episode / episodic
hallucinate
assortative
resilience
discriminate between ...
confine, be confined to ...
a multitude of ...
...outperform ...by a significant margin
...be nigh
grace / graceful / gracefully
a gentle introduction
clarify the relationship between ...
myth = a commonly believed but false idea
cont. = continued
synthesis / synthesize
digest
compositionality = hierarchy
coefficient and intercept
mainstream models
an emerging line of work
cast ... as ...
In the same vein = In the same style of speaking or writing

attenuate = weaken
alleviate
meliorate its effects
rife, be rife in ...
discriminate specific tasks
conceived
mitigate, mitigate the risks
commonality
the unified definition of ...
backbone
acyclic graph
thesaurus
proactive
lockdown

11 slam

make it free of noise
prolific
propeller
proximity
sloppy
rail
it deviated from its path
diameter
get drift to one side
by-product
azimuth
lawn mower
compromise
surveillance
reef
reefer
archaeology / archaeologist
ceiling
infrared

showcase
conduct the project
proximity, proximity sensor
joystick
revolution, revolution of the wheels
...same holds for ...
sketch, a sketch of ...
successive iterative process
it happens from time to time
...prevail in the domain of ...
volumetric representation
there is no way around ...
geodesy
acronym
coin / coined
...thus far
comprise
in-depth
thoroughly
central topic
exclusively
exogenous
amenable, be amenable to ...
exposition
contemporary
...is by no means to be ...
Rather, ...
descriptive
not infeasible
Such extensions, ...
characterize ...
appear, may appear to ...
provision
in the first place
vastly
overestimate
accommodate certain tasks
postulate

whereabout, the whereabouts of people
accrue ...
... as indicated
This chapter provides in detail ...
projectile
... concerned with ...
a comprehensive introduction into / to ...
subfield
monograph
overarching
temporal / spatial extension
commonality
discourse
insofar, insofar as ... = to the degree that ...
wordy
laborious
at times
... emerge with ...
superficial
exposition
planetary
be in one's infancy
in the proximity of ...
First and foremost, ...
perturb / perturbation
heavy-duty
wear-and-tear
flaky
rather crude
realm
stumble / stumbling
pay tributes to ...
Put differently, ...
ambiguity
degree of belief
in the face of ...
graceful / gracefully
pertain, ... pertaining to ...

distinguishable / indistinguishable
plausible
by no means does ...
momentary
err
deprive
paramount
coastal
anticipate / anticipation
cut across
reactive / proactive
relieve
insurmountable
sole
sound
... come at a price
weak link
unprecedented
bargain, at bargain prices
branch into / out
self-explanatory
pitfall
set forth, ... set forth below
virtually
familiarize ...
predominant / predominantly
brevity, ... lies in its brevity
coincide / coincidence
a final concept of importance
stray
..., so as to ...
revolute joint
... entails that ...
... be mediated by ...
single out ...
for didactic reasons
tactile, tactile sense
query

Hypothetically (speaking), ...
in accordance with ...
in the material yet to come
stochastic / stochasticity
time step
... will be explored pervasively
... as to ...
... is that of ...
reflect
synonym
elucidate
by virtue of ...
know ... with certainty
be entirely ignorant about ...
restrict ourselves to finite situation
postulate
violate / violation, induce violations of the assumption
as a (general) rule of thumb
ramification, have important ramification on ...
with no unique best answer for all ...
a wide array of ...
attain
by induction
predate
easy / involved
scent / scented / unscented
immense / immensely
treatment
provision
be amenable to ...
it is descriptive of the state of the art
preliminary
accrue
pendulum
steer, steering wheel
articulate / articulated
limb
hexagon

clockwise / counterclockwise
It accepts as inputs ...
hypothesize / hypothesized
moderate
it suffices to ...
perturb
handy
... amounts to ...
retro-, retrospect
formula / formulae
in lieu of ...
erroneous
slippage
This poses no problem for ...
side-step
in action
superimpose / superpose
... pertaining to ...
call for ...
keep ... into account
upon executing ...
factorize ... into
be subsumed into ...
.... One then ...
traverse / traversal / traversable
significant overhead
importance factor
Care has to be taken in ...
... leading up to ...
discard the information
shed light on / onto ...
As far as ...
sideward
estate, real estate
disguise, in disguise
tactile sensors
fire a signal towards ...
reflective surface

predictable
be paraphrase as ...
specular reflection
problematic
the likelihood of this to happen
coal mine
caveat
herein, Herein lies a key advantage of ...
hereinafter
crude
saturation
recapitulate / recapitulation
drop the distinction between ... and ...
adopt
be among the most popular / important ... in ...
range finder
phantom, phantom readings
eyeball
susceptible, be susceptible to ...
a plain implementation
the main drain of ...
run the danger of ...
ad hoc
pre-compute
advantageous
diminish
myriad, a myriad of ...
devise
indeterminacy
spiral
ring
introspection
with the advent of ...
alleged
by virtue of the fact that ...
inferior / superior
inflate
enabling technologies in the pursuit of ... deceptive / deceptively, deceptively

simple / easy While ..., despite ...at present be largely credited for / to
 ...strive hard for / to As we strive to ...centerpiece layman, a layman in-
 troduction to ...roam be endowed with ...door post fallen out of fasion
 easy to reason about speculate / speculation a flurry of ...intimate, inti-
 mate relationship / contact be intimately related to ...vanilla, a vanilla ...in
 the very beginning of ...persist, ...persists over time provisional novice, be
 novice in ...in the light of ...monolithic trunk, tree trunk overlay / overlaid,
 ...overlaid on ...depletion an educated guess elapse / elapsed, time elapsed
 in the spirit of ...oracle be suspected to ...hurdle hinder hamper sidestep a
 close-up view of ...considerable be anticipated to ...a wealth of information
 fire hydrant visual imagery commodity be in line with ...histogram ramp
 quadrant trigonometry that's the case judge by yourself / judge on yourself
 time to wrap up file an issue run into issues / problems tray whale synopsis
 seasoned dialect directive dictation comply with ...cutting-edge what ap-
 pears to be computationally easy in one parameterization is involved in the
 other, and vice versa. ...stems from ...alternate ...with ...up front sub-
 sume curvature render ...inapplicable to all but the most trivial problems
 distort / distortion resort to ...incur a logical choice ...deemed ...contender
 cooperation and division of labour It's difficult in that ...bring ...to bear
 on / uponhas to do with ...at times be in stark contrast to ...In a
 nutshell, ...artificial beacons intolerable ceiling kidnap / kidnapped / kid-
 napper One might argue that ...other than ...Of particular interest are
 ...that ..., and that ...accommodate noise / dynamics through some other
 means hazard / hazardous impasse, recognize the impasse and escape from
 it the hardness of the problem coincide with ...hallway be flattened out
 brittle the most simple at all is ...take ...for granted thoughtful reconcile
 asymptotic / asymptotically with relative ease deposit cliff distant tentative
 situate, ...situated in ...provision / provisional shrink / shrunk / shrink-
 age reduce ...by a significant factor in the face of ...lean ...deviates from
 ...reduce ...to ...It is therefore common practice to ...Little is currently
 known about ...distinctiveness scarce culminate in / into ...The advantages
 of ...are manifold: ...predate, ...predates ...by many centuries picture a
 situation where ...proactive