

AAE1001 - Introduction to Artificial Intelligence and Data Analytics in Aerospace and Aviation Engineering

Week 8 – What's GitHub?

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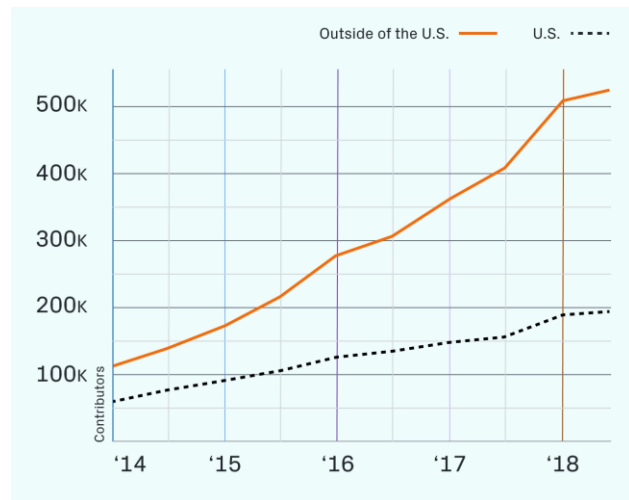
What is Github?



- A social network and platform for software developers
- Over 65 million users
- A place to Share, Communicate, Collaborate with others, especially programmers

What's on GitHub

- Over 100 million live Projects
- New projects increasing over the years
- Showing the trend of using GitHub for Software development



Variety of GitHub

- Countless topics and projects available for the public
- Encompassing most popular topics nowadays



BIG GitHub Pages

Tesla, Inc.
Verified
Repositories Packages People Projects

Find a repository...

kafka-helmman
kafka-helmman is a repository of tools that focus on automating a Kafka deployment
Java MIT 18 56 2 (1 issue needs help) 0 Updated 11 hours ago

perf_data_converter
Forked from google/perf_data_converter
Tool to convert Linux perf file to the profile.proto format used by gprof
C++ BSD-3-Clause 46 1 0 0 Updated 12 days ago

react-native-camera-kit
A high performance, easy to use react native camera library for React Native apps
Objective-C MIT 340 1,444 12 16 Updated 13 days ago

fixed-containers
C++ Fixed Containers
C++ MIT 3 0 0 0 Updated on Jul 1

mongo-go-driver
Forked from google/mongo-go-driver
The Go driver for MongoDB
Go Apache-2.0 670 51 0 0 Updated on Jun 29

coreboot
Coreboot sources
GPL-2.0 12 52 0 0 Updated on Jun 15

linux
Linux sources
GPL-2.0 149 507 0 0 Updated on Jun 15

ansible-culler

Microsoft
Open source projects and samples from Microsoft
Redmond, WA https://opensource.microsoft.com @OpenAIMicrosoft opensource@microsoft.com Verified

Repositories Packages People Projects Sponsoring

Find a repository...

Graphormer
This is the official implementation for "Do Transformers Really Perform Bad for Graph Representation?"
graph-transformer
Python MIT 50 399 1 2 Updated 3 minutes ago

calculator
Windows Calculator: A simple yet powerful calculator that ships with Windows
windows-saml-csharp-cpp-uew-windows-10
C++ MIT 1,969 22,428 238 (85 issues need help) 13 Updated 3 minutes ago

v8-jsi
React Native V8 JSI adapter
C++ 16 65 2 11 Updated 4 minutes ago

ts-gyb
Generating native code interfaces from TypeScript
kotlin-swift-typescript-webview-code-generation-javascript-ts-hybrid-app
TypeScript MIT 1 19 11 1 Updated 3 minutes ago

onnxruntime
ONNX Runtime: cross-platform, high performance ML inference and training accelerator
machine-learning-deep-learning-tensorflow-skill-learn-pytorch-neural-networks-hardware-acceleration
C++ MIT 1,177 4,987 395 (1 issue needs help) 115 Updated 7 minutes ago

responsible-ai-widgets
This project provides responsible AI user interfaces for Fairlearn, Interpret, community, and Error Analysis, as well as foundational building blocks that they

Google
Google Open Source
https://opensource.google/ @GoogleOSS opensource@google.com Verified

Repositories Packages People Projects

Find a repository...

closure-compiler-npm
Package for managing and documenting closure-compiler for use via npm
JavaScript Apache-2.0 66 303 2 (1 issue needs help) 10 Updated 3 minutes ago

it-cert-automation-practice
Google IT Automation with Python Professional Certificate - Practice files
Python Apache-2.0 19,346 381 36 5,000+ Updated 4 minutes ago

CFU-Playground
Want a faster ML processor? Do it yourself! -- A framework for playing with custom opcodes to accelerate TensorFlow Lite for Microcontrollers (TFLM).
tensorflow-tflite-tflm
C++ Apache-2.0 23 67 30 (1 issue needs help) 5 Updated 7 minutes ago

pytype
A static type analyzer for Python code
python-typechecker-types-static-code-analysis-linter-static-analysis
typing
Python 200 3,367 93 (3 issues need help) 1 Updated 17 minutes ago

trax
Trax — Deep Learning with Clear Code and Speed
machine-learning-reinforcement-learning-deep-learning-numpy-deep-reinforcement-learning-transformer-jax
Python Apache-2.0 627 6,355 72 (1 issue needs help) 13 Updated 17 minutes ago

pigweed
microcontroller-embedded-cpp-embedded-systems-mcu
C++ Apache-2.0 7 31 0 0 Updated 18 minutes ago

Top languages
Python C++ Go JavaScript

Most used topics
android-security-python-java-go

People
1.2k

Developer Program Member

Report abuse

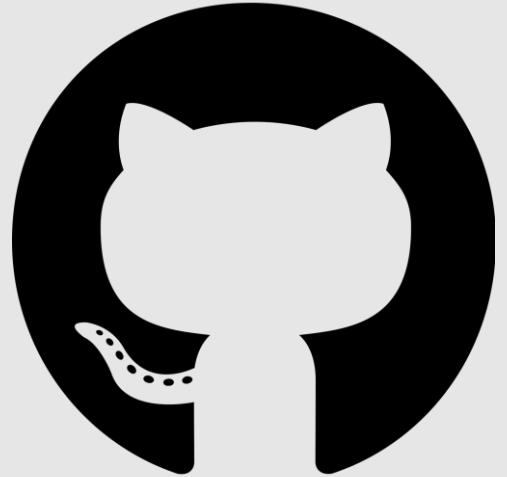
BIG GitHub Pages

The screenshot shows the Boeing GitHub profile. At the top, there's a navigation bar with 'Overview', 'Repositories' (3), 'Packages', 'People', and 'Projects'. Below this, the 'Popular repositories' section displays four repositories: 'modular_navigation' (C++ 6 stars, 6 forks), 'modular_cartographer' (C++ 5 stars, 5 forks), 'cartographer' (C++ 5 stars, 3 forks), and 'math6d' (Python 2 stars, 1 fork). To the right, the 'People' section states that the organization has no public members. Below the repositories, the 'Airbus Group' profile is partially visible, showing its description and a 'Verified' badge. The bottom section shows the 'ED247_LIBRARY' repository, described as an example of ED-247 standard implementation, with 13 stars and 7 forks. The 'scikit-decide' repository is also listed, described as an AI framework for Reinforcement Learning, with 14 stars and 10 forks.

The screenshot shows the NASA GitHub profile. At the top, there's a navigation bar with 'Repositories' (359), 'Packages', 'People' (42), and 'Projects' (1). Below this, the 'Pinned repositories' section displays a link to 'nasa.github.io' with a description and a 'HTML' badge. The 'Find a repository...' search bar is visible. The 'Top languages' section shows 'Python', 'C', 'C++', and 'JavaScript'. The 'Most used topics' section shows 'nasa', 'cumulus', 'nasa-cumulus', 'eosdis', and 'satellite'. The 'People' section shows a grid of 42 profile pictures. The 'Developer Program Member' section is also visible. The main content area shows several repositories: 'fprime' (F - A flight software and embedded systems framework, C++ 961 stars, 8,370 forks, 68 issues), 'cumulus-orca' (Python 7 stars, 0 forks, 1 issue), 'ow_autonomy' (C++ 4 stars, 13 forks, 0 issues), 'LHSA' (Landslide Hazard Analysis for Situational Awareness, R 7 stars, 8 forks, 0 issues), and 'earthdata-search' (Earthdata Search is a web application developed by NASA EOSDIS, JavaScript 202 stars, 618 forks, 14 issues).

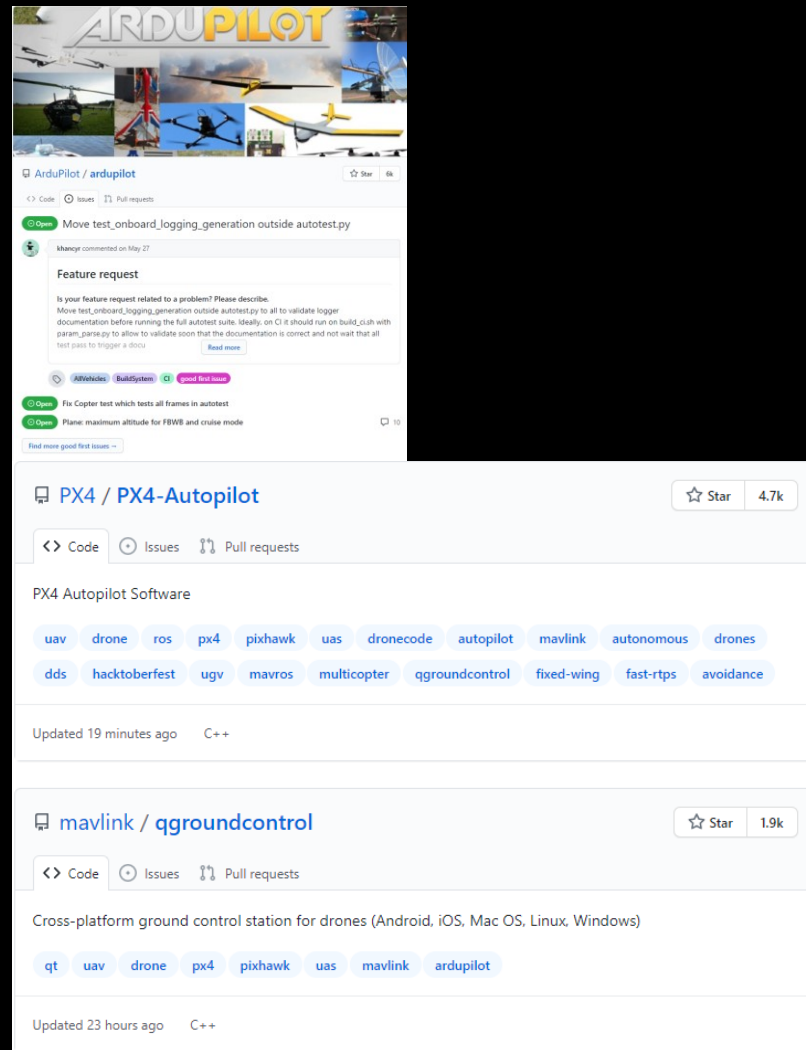
What's on GitHub?

How is it related to AAE?



Flight control softwares for UAV

Ardupilot, PX4 and more



The image shows two GitHub repository pages. The top page is for **ArduPilot / ardupilot**, which has 4.7k stars. It displays a recent issue titled "Move test_onboard_logging_generation outside autotest.py" and a feature request for validating logger documentation. The bottom page is for **PX4 / PX4-Autopilot**, also with 4.7k stars, showing a tag cloud of related projects like uav, drone, ros, px4, pixhawk, uas, dronecode, autopilot, mavlink, autonomous, drones, dds, hacktoberfest, ugv, mavros, multicopter, qgroundcontrol, fixed-wing, fast-rtps, and avoidance. Below this is the **mavlink / qgroundcontrol** repository, which has 1.9k stars and is described as a cross-platform ground control station for drones, supporting Android, iOS, Mac OS, Linux, and Windows. It includes a tag cloud with qt, uav, drone, px4, pixhawk, uas, mavlink, and ardupilot.

ArduPilot / ardupilot 4.7k

Code Issues Pull requests

Move test_onboard_logging_generation outside autotest.py

khange commented on May 27

Feature request

Is your feature request related to a problem? Please describe.
Move test_onboard_logging_generation outside autotest.py to all to validate logger documentation before running the full autotest suite. Ideally, on CI it should run on build_clash with param_parsing to allow to validate soon that the documentation is correct and not wait that all test pass to trigger a docu [Read more](#)

Fix Copter test which tests all frames in autotest

Plane: maximum altitude for FBWB and cruise mode

PX4 / PX4-Autopilot 4.7k

Code Issues Pull requests

PX4 Autopilot Software

uav drone ros px4 pixhawk uas dronecode autopilot mavlink autonomous drones dds hacktoberfest ugv mavros multicopter qgroundcontrol fixed-wing fast-rtps avoidance

Updated 19 minutes ago C++

mavlink / qgroundcontrol 1.9k

Code Issues Pull requests

Cross-platform ground control station for drones (Android, iOS, Mac OS, Linux, Windows)

qt uav drone px4 pixhawk uas mavlink ardupilot

Updated 23 hours ago C++

About These Softwares

Ardupilot:

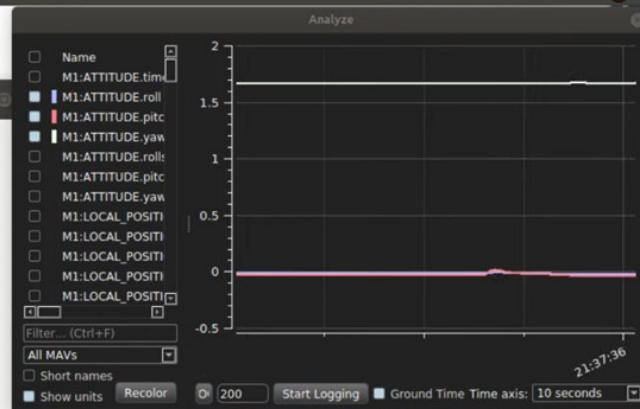
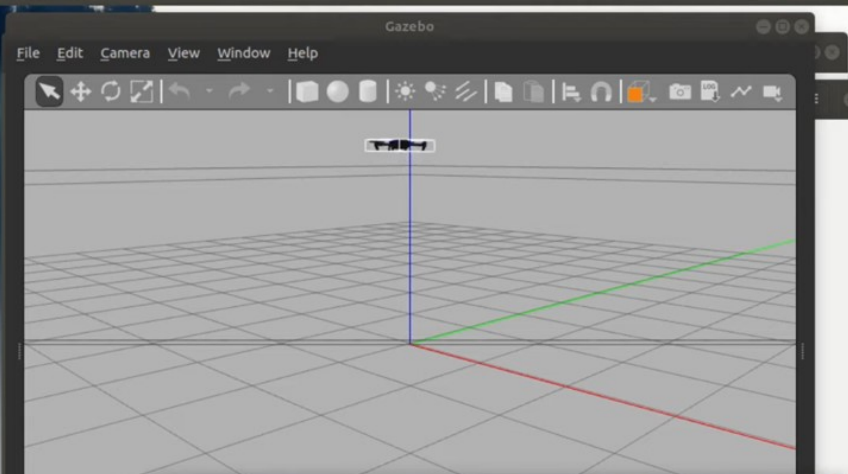
- Open source software suite
- Quadcopters, VTOL and more
- Cross platform
- Over 10 years of development and improvement



PX4:

- Also open source
- Works with QGC and MAVLink (Also available in GitHub)





```

/home/Development/PX4/Firmware/launch/posix_sitl.launch http://localhost:11311
File Edit View Search Terminal Tabs Help
/opt/ros/melodi... * /home/Develop... * root@kingsman... * root@kingsman... *
(gzclient:4781): dconf-WARNING **: 21:35:24.407: failed to commit changes to dco
nf: The connection is closed
(gzclient:4781): dconf-WARNING **: 21:35:24.407: failed to commit changes to dco
nf: The connection is closed
INFO [mavlink] partner IP: 127.0.0.1
INFO [mavlink] partner IP: 127.0.0.1
INFO [ecl/EKF] 468000: EKF aligned, (baro height, IMU buf: 22, OBS buf: 14)
INFO [ecl/EKF] 468000: reset position to last known position
INFO [ecl/EKF] 468000: reset velocity to zero
INFO [ecl/EKF] 644000: GPS checks passed (WGS-84 origin set)
INFO [vehicle_angular_velocity] updating filter, sample rate: 1000.000 Hz -> 25
0.000 Hz
INFO [vehicle_acceleration] updating filter, sample rate: 1000.000 Hz -> 250.00
0 Hz
INFO [ecl/EKF] 5188000: reset position to GPS
INFO [ecl/EKF] 5188000: reset velocity to GPS
INFO [ecl/EKF] 5188000: commencing GPS fusion

pxh>
pxh>
pxh> commander takeoff
pxh> INFO [commander] Takeoff detected
    
```

QGroundControl v3.5.6

File Widgets

Vehicle Setup

Summary

Below you will find a summary of the settings for your vehicle. To the left are the setup menus for each component.

Airframe		Sensors	
System ID	1	Compass 0	Ready
Airframe type	Quadrotor Wide	Gyro	Ready
Vehicle	3DR Iris Quadrotor	Accelerometer	Ready
Firmware Version	1.11.0dev		

Radio		Flight Modes	
Roll	Setup required	Mode switch	Setup required
Pitch	Setup required	Flight Mode 1	Unassigned
Yaw	Setup required	Flight Mode 2	Unassigned
Throttle	Setup required	Flight Mode 3	Unassigned
Aux1	Disabled	Flight Mode 4	Unassigned
Aux2	Disabled	Flight Mode 5	Unassigned

Aviation Services Engineering

Logistics and Facility
Management and more

airport

Here are 148 public repositories matching this topic...

Language: All

Sort: Best match

Ysurac / FlightAirMap

Star 388

Code Issues Pull requests

Open source project displaying live aircrafts, ships or trackers on 2D/3D map. Browse through the data based on a particular aircraft, airline, airport, tracker or vessel to search through the database or see extensive statistics. Can use ADS-B in SBS1 format (dump1090, Radarcape...), VRS, VA (VATSIM, IVAO whazzup.txt, phpvms...), ACARS (acarsdec, acarsdeco2), APRS, AIS as datasource.

tracker cesium crash metar airport airline flight ship vatsim aircraft ivao acars
glidernet phpvms notam modes ads-b sbs vessel 3d-map

Updated on Nov 25, 2020 TSQL

felix-dumit / FSDAirportFlipLabel

Star 83

Code Issues Pull requests

UILabel like old Airport flipping labels

ios label ios-animation airport

Updated on Mar 9, 2018 Objective-C

lvysauro / CNRT

Star 74

Code Issues Pull requests Discussions

中國軌道交通數據庫（非技術類） - 另一角度看地鐵 / Data base of China Rail Transit (Non-tech) - Another view of Rail Transit

bus metro payment railway china airport subway rail-transit

Updated 3 days ago SCSS

gravity-EDDS / EDDS-freeware-releases

Star 57

Code Issues Pull requests

Logistics and Facility Management

- Data analysis resources
- System modelling and simulations
- Logistical models

Machine learning for data analysis

- Faster analysis
- Potential extra self-learning for students
- Extremely beneficial to their careers

The screenshot displays the GitHub repository page for **LogisticsPipes**. The top section shows a list of commits by **Michal MK**, detailing updates to project files, dependencies, and build scripts. Below this, the repository statistics are shown: 339,410 repository results, 2716 commits, 1716 issues, 492 discussions, 46 packages, 22 marketplace items, 502 topics, 146 wikis, and 616 users. A sidebar on the left lists languages used in the repository, with Python being the most prominent at 132,349 lines. The main content area features a list of related machine learning resources, including **JosephMisiti/awesome-machine-learning**, **wupe/MachineLearning**, **udacity/machine-learning**, **Jack-Cherish/Machine-Learning**, and **lawite19/MachineLearning_Python**.

Aeronautical Engineering

Material, aircraft designs, CFD
and more

computational-fluid-dynamics

Here are 198 public repositories matching this topic...

Language: All Sort: Best match

doyubkim / fluid-engine-dev

Star 1.1k

Code Issues Pull requests

Fluid simulation engine for computer graphics applications

c-plex-plus visual-studio sdk animation computer-graphics physics-engine computational-physics

fluid-simulation-engine computational-fluid-dynamics

Updated on Apr 25 C++

CubbyFlow / CubbyFlow

Star 175

Code Issues Pull requests

Voxel-based fluid simulation engine for computer games

cplhplus cpp computer-graphics physics-engine computational-physics cplusplus

fluid-simulation-engine computational-fluid-dynamics

Updated 6 days ago C++

AvtechScientific / ASL

Star 153

Code Issues Pull requests

Advanced Simulation Library - hardware accelerated multiphysics simulation platform.

crystallography gpgpu scientific-computing high-performance-computing design-space-exploration

computational-fluid-dynamics virtual-sensing image-guided-surgery computer-aided-engineering

Updated on Dec 21, 2018 C++

lolverhennigh / Steady-State-Flow-With-Neural-Nets

Star 119

Code Issues Pull requests

A Tensorflow re-implementation of the paper Convolutional Neural Networks for Steady Flow Approximation

aircraft-design

Here are 21 public repositories matching this topic...

Language: All Sort: Best match

JSBSim-Team / jsbsim

Star 394

Code Issues Pull requests Discussions

XML validation

14

becoswe commented on Jan 12, 2019

JSBSim provides schemas for XML validation (JSBSim.xml for flight models, JSBSimScript.xml for script files and JSBSimSystem.xml for system files) but they have not been updated for a while so they might reject perfectly valid XML files.

XML files can be tested with xmllint:

```
> xmllint --noout --schema JSBSim.xml file.xml
```

Read more

JSBSim

Aero Sandbox

by Peter Sharpe

peterdsharpe / AeroSandbox

Sponsor Star 236

Code Issues Pull requests

Aircraft design optimization made fast through modern automatic differentiation. Plug-and-play analysis tools for aerodynamics, propulsion, structures, trajectory design, and much, much more.

python analysis optimization aerospace automatic-differentiation airplane cfd aircraft

aerodynamics sim xfoil aircraft-design mdo mdo aerodynamic-analysis 3d-panel

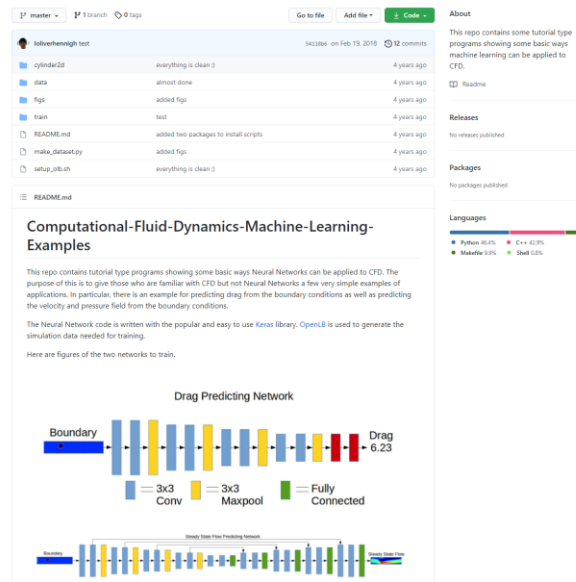
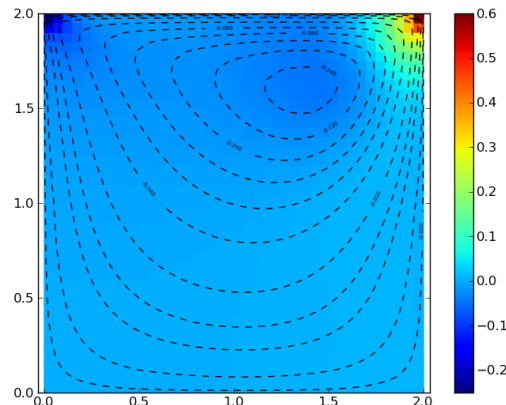
Unified 4-Block

CFD Python

- Full course for CFD Python
- Course Materials (Lectures and videos)
- Software resources

CFD and Machine Learning

- Making use of ML
- Showing how neural networks can be applied to CFD



Aircraft Maintenance

Propulsion, NDT and more

191 results (197 ms)

Sort by: Most stars

Save

...



archd3sai/Predictive-Maintenance-of-Air

Star

In this project I aim to apply Various Predictive Maintenance Techniques to accurately predict the impending failure of an aircraft turbo...

regression

classification

cnn-keras

lstm-neural-networks

feature-importance

Jupyter Notebook · 98 · Updated on 2022年8月4日



matthiaslau/Turbofan-Federated-Learning

S

Proof of concept on a predictive maintenance use case using federated learning to continuously improve predictions of the remaining lifet...

Jupyter Notebook · 82 · Updated on 5月10日



xaviergoby/Deep-Learning-and-Compute

S

Incorporating Inductive Bias into Deep Learning: A Perspective from Automated Visual Inspection in Aircraft Maintenance

machine-learning

deep-learning

aerospace

crack-detection

structural-health-monitoring

Python · 42 · Updated on 2020年3月14日



Azure/cortana-intelligence-j

Public archive

S

Predict the remaining useful life of aircraft components in order to reduce component repair costs, improve component stock availability...

27 · Updated on 2018年10月1日



vewald/DeepSHM

Star

Perception Modelling by Invariant Representation of Deep Learning for Automated Structural Diagnostic in Aircraft Maintenance: A Study Ca...

deep-learning

perception

ultrasonic

convolutional-neural-networks

invariant-features

Python · 9 · Updated on 2020年9月9日



oafbot/ebmschedule

Star

Optimization algorithms to solve the general problem of Optimal Maintenance Scheduling for Aircraft or other types of vehicles when there...

Python · 7 · Updated on 2013年1月4日



adesgautam/AirML

Star

Using machine learning in the aircraft maintenance industry

machine-learning

django

scikit-learn

django-framework

python3

CSS · 5 · Updated on 2020年11月16日



TapanSoni/Predictive-Maint

Public archive

Star

Codebase for the Predictive Maintenance System for Naval Aircraft Engines. Produced for ASRC Federal Mission Solutions.

Python · 5 · Updated on 2019年10月2日

Example on NDT

- Resources on the whole conference
 - 20th World Conference on Non-Destructive Testing
- Documentation and software resources
- Applying LSTM to NDT

The screenshot shows the GitHub repository page for 'xaviergoby/LSTMforSHM'. The repository is in the 'master' branch, has 3 branches, and 0 tags. It was created on Oct 21, 2020, and has 67 commits. The file list includes: 'configs_and_settings' (recent work, 10 months ago), 'literature' (non-code commit, 13 months ago), 'results' (Merge branch 'master' of https://github.com/xaviergoby/LSTMforSHM, 10 months ago), 'src' (recent work, 10 months ago), '.gitignore' (recent work, 10 months ago), 'LICENSE' (Initial commit, 2 years ago), 'README.md' (Revert "Revert "Results Update"", 13 months ago), '._init_.py' (1st commit of og Vicent lstm & my data_loading script w/ data and labels, 2 years ago), 'call_mainscript.py' (Update results, 10 months ago), 'main.py' (recent work, 10 months ago), 'main_v2.py' (Merge branch 'master' of https://github.com/xaviergoby/LSTMforSHM, 10 months ago), 'main_v3_xav.py' (recent work, 10 months ago), 'p2atR.jpg' (non-code commit, 13 months ago), and 'settings.py' (recent work, 10 months ago).

The README.md file is displayed, titled 'Sequential Modelling in Data-Driven Approach for Structural Health Monitoring by Recurrent Convolutional Neural Networks'. It mentions the conference: 20th World Conference on Non-Destructive Testing, Location & Date: South Korea, Seoul - June 2020, Co-authors: Ewald V., Goby X., Groves R.M. & Benedictus R., and Labarotory: TU Delft Aerospace NDT Lab.

The 'Usage Instruction' section states: 'In order to make use of this project all you need mainly be concerned with is the main.py Python script. In it you shall (hopefully) find yourself a more than sufficient amount of documentation in order to understand and be able to make use of it!'

The 'Dev Progress Log-Journal, Data Characteristics & Background Information' section is also visible.

The right sidebar shows the repository's application: 'Application of LSTM network for Structural Health Monitoring & Non-Destructive Testing'. It lists related topics: computer-vision, timeseries, tensorflow, keras, cnn, waves, lstm, supervised-learning, classification, shm, ultrasonic-sensor, ndt, structural-engineering, structural-analysis, convlstm, structural-health-monitoring, lambwaves, pzt, aircraft-inspection, and non-destructive-testing. It also shows the Readme, MIT License, Releases (No releases published), Packages (No packages published), Contributors (xaviergoby, Alexander Xavier O'Rour..., vewald), Environments (github-pages, Active), and Languages (Python 100.0%).

Navigation and Positioning

RTKLIB, VINS, ORB_SLAM3, ROS and more

The image displays three GitHub repository pages, each showing the file structure, commit history, and repository details.

Top Screenshot: ORB_SLAM3

- Repository: `UZ-SLAMLab / ORB_SLAM3`
- Branch: `master` (1 branch, 2 tags)
- Files: `Examples`, `Thirdparty`, `Vocabulary`, `evaluation`, `include`, `src`, `gIgnore`, `CMakeLists.txt`, `Changelog.md`, `Dependencies.md`, `LICENSE`, `README.md`, `build.sh`, `build_res.sh`.
- Commit: 893173b on 21 Apr 2021, 49 commits.
- About: ORB-SLAM3: An Accurate Open-Source Library for Visual, Visual-Inertial and Multi-Map SLAM.
- Releases: 2 tags.
- Packages: No packages published.
- Contributors: richard-elvira, jtdardos, jlg3496.

Middle Screenshot: tomojitakasu/RTKLIB

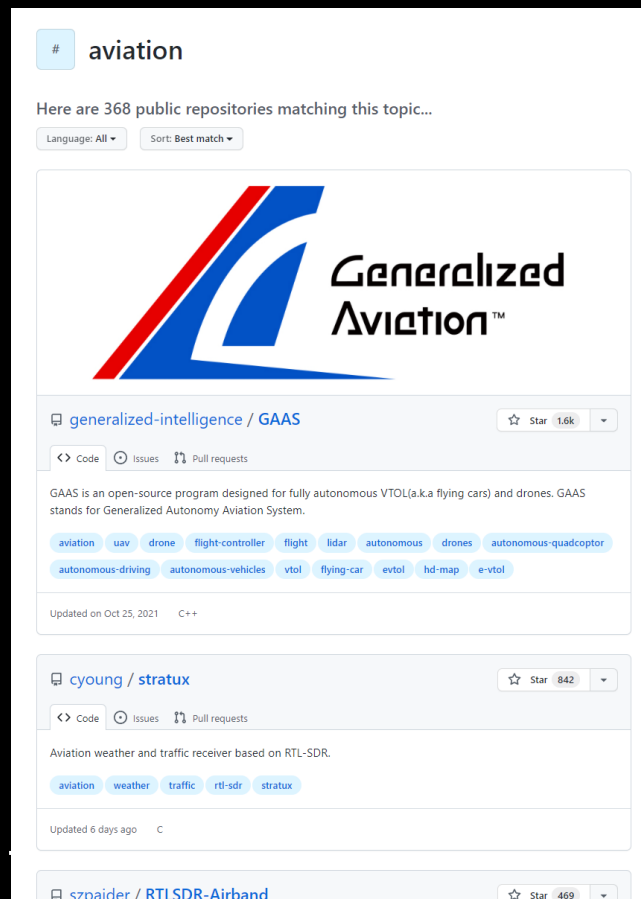
- Repository: `tomojitakasu / RTKLIB`
- Branch: `master` (2 branches, 3 tags)
- Files: `app`, `bin`, `brd`, `data`, `doc`, `lib`, `src`, `test`.
- Commit: 71dbff7 on 30 Jan 2018, 69 commits.
- About: No description, website, or topics provided.
- Releases: 3 releases, including RTKLIB ver. 2.4.3 b34 on 6 Jan.
- Packages: 5 published.

Bottom Screenshot: HKUST-Aerial-Robotics/VINS-Mono

- Repository: `HKUST-Aerial-Robotics / VINS-Mono`
- Branch: `master` (3 branches, 9 tags)
- Files: `or_demo`, `benchmark_publisher`, `camera_model`, `config`, `docker`, `feature_tracker`, `pose_graph`, `support_files`, `vins_estimator`, `gIgnore`, `LICENSE`, `README.md`.
- Commit: 8c324c4 on 21 Mar 2019, 76 commits.
- About: A Robust and Versatile Monocular Visual-Inertial State Estimator.
- Releases: No releases published.
- Packages: No packages published.
- Contributors: 5 contributors.
- Languages: C++ 92.6%, CMake 1.0%, Other 0.3%.

Repository Examples

- UAV Powering Programmes
- Weather and Traffic Receiver
- Radio demodulator
- Proximity awareness systems
- Traffic visualization
- And more!!
- <https://github.com/topics/aviation>



The screenshot shows the GitHub search results for the topic 'aviation'. At the top, there's a header with '# aviation' and a count of 368 public repositories. Below this, there are filters for 'Language: All' and 'Sort: Best match'. The first repository listed is 'generalized-intelligence / GAAS', which has 1.6k stars. It features a logo with a stylized 'G' in blue and red, and the text 'Generalized Aviation™'. The description states that GAAS is an open-source program for fully autonomous VTOL (flying cars) and drones. It includes a list of tags: aviation, uav, drone, flight-controller, flight, lidar, autonomous, drones, autonomous-quadcopter, autonomous-driving, autonomous-vehicles, vtol, flying-car, evtol, hd-map, and e-vtol. The repository was updated on Oct 25, 2021, and is written in C++.

The second repository listed is 'cyoung / stratux', which has 842 stars. It is described as an 'Aviation weather and traffic receiver based on RTL-SDR'. It includes tags: aviation, weather, traffic, rtl-sdr, and stratux. It was updated 6 days ago and is written in C.

The third repository listed is 'szpajder / RTLSDR-Airband', which has 469 stars. It is partially visible at the bottom of the screenshot.

Other related Repositories

- UAV simulation platforms
- ADS-B Decoder
- Aircraft design optimization
- Aircraft design toolbox
- <https://github.com/topics/aircraft>

Explore in your free time and you might find out something interesting!

The screenshot shows the GitHub search results for the topic 'aircraft'. At the top, there's a search bar with the hashtag # and the word 'aircraft'. Below it, a message states 'Here are 287 public repositories matching this topic...'. There are filters for 'Language: All' and 'Sort: Best match'. The first repository listed is 'wiedehopf / tar1090', which has 582 stars. It provides an improved webinterface for use with ADS-B decoders readsb / dump1090-fa. The second repository is 'JSBSim-Team / jsbsim', which has 504 stars. It features an 'Open' button and a discussion about XML validation. A comment from 'bcoconni' dated Jan 12, 2019, mentions that JSBSim provides schemas for XML validation but they haven't been updated for a while. It includes a code snippet for running xmllint. The third repository is 'robin-shaun / XTDrone', which has 418 stars and is described as a UAV Simulation Platform based on PX4, ROS and Gazebo.

aircraft

Here are 287 public repositories matching this topic...

Language: All Sort: Best match

wiedehopf / tar1090 Star 582

<> Code Issues Pull requests

Provides an improved webinterface for use with ADS-B decoders readsb / dump1090-fa

sdr rti-sdr webinterface aircraft ads-b adsb rtsdr 1090 readsb 1090mhz

Updated 3 days ago JavaScript

JSBSim-Team / jsbsim Star 504

<> Code Issues Pull requests Discussions

Open XML validation 16

bcoconni commented on Jan 12, 2019

JSBSim provides schemas for XML validation (jsbsim.xml for flight models, jsbsimscript.xml for script files and jsbsimsystem.xml for system files) but they have not been updated for a while so they might reject perfectly valid XML files.

XML files can be tested with `xmllint`

```
> xmllint --noout --schema jsbsim.xml file.xml
```

Read more

bug help wanted good first issue

robin-shaun / XTDrone Star 418

<> Code Issues Pull requests

UAV Simulation Platform based on PX4, ROS and Gazebo

uav ros px4 gazebo aircraft self-driving

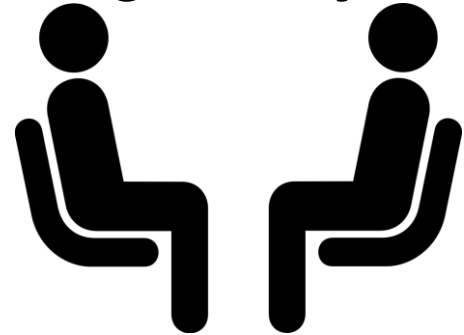


<https://www.youtube.com/watch?v=w3jLJU7DT5E>

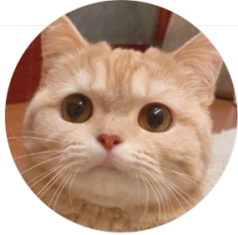
For Your Career 

GitHub Facilitated Job Hunting

- A online digital profile for students
 - Indicating interests
 - Show past work
 - Roadmap of students' development career
- Let people know that you are looking for a job
- During job hunting
 - Better first impression
 - Better understanding
 - Appears more enthusiastic



Develop Personal Profiles Starting from AAE UG



maxystory

Follow

Overview Repositories 3 Projects Packages

Popular repositories

Firmware

Forked from PX4/PX4-Autopilot


PX4 Autopilot Software

C++

AirSim

Forked from microsoft/AirSim

Open source simulator for autonomous vehicles built on Unreal Engine / Unity, from Microsoft AI & Research



Queenie

queenie-ho

Navigation&Positioning
-Experienced in UAS, HD maps and computer vision -Focusing on visual odometry and autonomous ground vehicle

Edit profile

0 followers · 0 following · 1

The Hong Kong Polytechnic University
Hong Kong

Organizations

Overview Repositories 4 Projects Packages

Popular repositories

You don't have any public repositories yet.

66 contributions in the last year

Contribution settings

Learn how we count contributions

Contribution activity

2021

2020

Created 12 commits in 5 repositories

- queenie-ho/Calibrated-Camera-Data 4 commits
- queenie-ho/FYP-PathPlanning 3 commits
- tungtunganyan/FYP17 3 commits
- queenie-ho/Vins 1 commit
- queenie-ho/ORB_SLAM3 1 commit

Created 3 repositories

- queenie-ho/Calibrated-Camera-Data

Customize your pins

Feb Mar Apr May Jun Jul

Less More

2021

2020

for this period.

y



B.X.W
baaixw

Follow

Visual SLAM GNSS

18 followers · 15 following · ☆ 42

Intelligent Positioning and Navigation L...
Hong Kong

Achievements



Block or Report

Overview Repositories 33 Projects Packages

Popular repositories

[remoteSensing2020](#)

Improved VINS based on the adaptive covariance and adaptive M-estimator

● C++ 4 ☆ 2 2

[vins-application](#)

Forked from engang/vins-application

VINS-Mono and Fusion application of different sets of cameras and imu on different board including desktop and jetson xavier

● C++ 1 ☆ 1

[CV_GNSS](#)

Forked from weisongwen/CV_GNSS

CV Aided GNSS

● C++

[ios_logger](#)

Forked from Varvarikos_logger

Application for camera and sensor data logging (iOS)

● Objective-C++ 1 ☆ 1

[catkin](#)

Original vins-fusion for validation some data. The related path has been revised to ourself path.

● C++ 1 ☆ 1 1

[tutorials](#)

128 contributions in 2020



Activity overview

Contributed to [weisongwen/researchTools](#).

Code review

Up to Phd Studies



Darren Wong
DarrenWong

Follow

move fast

18 followers · 16 following · ☆ 95

Hong Kong
darrenwongf@gmail.com

Achievements



Organizations



Block or Report

Overview Repositories 24 Projects Packages

Pinned

[e3372-web-management](#)

Getting HUAWEI E3372 info with official API, such as device info, data switch and send sms etc

● CSS 8 ☆ 2 2

[weisongwen/UrbanNavDataset](#)

UrbanNav: an Open-Sourcing Localization Data Collected in Asian Urban Canyons, Including Tokyo and Hong Kong

☆ 139 32

[protobuf-over-nanomsg-example](#)

Protobuf over nanomsg (C++ as server, and nodejs as client)

● C++

98 contributions in the last year



[@IPNL-POLYU](#)

[@HKUST-Aerial-Robotics](#)

Activity overview

Contributed to [IPNL-POLYU/UrbanNavDataset](#), [IPNL-POLYU/ipnl-sensor-kit](#), [DarrenWong/benchmark_lo](#) and 5 other repositories

Code review





Seph Soliman
scarlac

Follow

Tattooed, Bitbucket, Konstellation.
Software entrepreneur, developer
and true full stack developer.

64 followers · 7 following · 1 star

Tesla
San Francisco
<https://www.seph.dk>

Achievements



Organizations



Block or Report

Overview Repositories 38 Projects Packages

Pinned

js-stopwatch

Javascript Stopwatch class. Output can be controlled using a simple callback.

JavaScript 24 7

ClamshellOpen

App to allow running your laptop in clamshell mode with an open lid for Lion (10.7) and Mountain Lion (10.8)

Objective-C 5

d3d-strategy

Exam assignment to write a C# program. I chose to write a Direct 3D Strategy game. Graphics for this game was borrowed from C&C: Red Alert. For legal reasons, they are not included in the repository.

C# 2

drag-check-js

Library for checking multiple checkboxes by click-and-dragging over them. Paint your selection!

JavaScript 21 9

chargenow

See DriveNow EVs in your area that needs charging. First react project.

JavaScript 1

lolpause

MacOS utility app to pause League of Legends GUI Flash client while game is activate to lower CPU consumption

Objective-C 1

44 contributions in 2021



Contribution activity

August 2021



Jonathan Hall
flimzy

You can also find me on GitLab:
<https://gitlab.com/flimzy>

Follow

139 followers · 32 following · 45 stars

Amsterdam, NL
<https://jhall.io/>
@DevOpsHabs

Highlights

Arctic Code Vault Contributor

Organizations



Overview Repositories 79 Projects Packages

Popular repositories

anki

Go library to read Anki *.apkg files

Go 16 3

onload

Onload handler for GopherJS without the bloat of JQuery

Go 10 1

minimal-pairs

Tool for finding minimal pairs given a corpus of words

HTML 5 1

go-pouchdb

GopherJS bindings for PouchDB. NOTICE: this package has been superseded by <https://github.com/go-kivik/kivik>

Go 13 1

go-sql.js

GopherJS bindings for SQL.js

Go 9

jsblob

GopherJS bindings for JavaScript Blob objects

Go 3

977 contributions in the last year



Contribution activity

2020



Jonathan Hall
flimzy

You can also find me on GitLab:

<https://gitlab.com/flimzy>

Follow

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Amsterdam, NL
<https://jhall.io/>
@DevOpsHabs

Highlights

Arctic Code Vault Contributor



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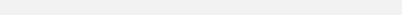
Go 9

jsblob

GopherJS bindings for JavaScript Blob objects

Go 3

977 contributions in the last year



Contribution activity

2020

Making GitHub Part of your Work

Now you have an empty GitHub profile. How do you make it shine?

The following tips are roughly organized according to effort. Practically anyone can implement at least some of them. The later suggestions will be more discretionary, depending on your interests and time.

Star interesting projects

Whenever you run across a GitHub project that piques your interest, "star" it. Your starred projects appear on your public profile, and if nothing else, they provide recruiters and hiring managers an indication of what sorts of projects you find interesting.

Follow interesting people

GitHub also allows you to follow interesting people, and these people will appear on your public profile, as well. In addition to signaling to the world whom you find interesting, when people you follow make contributions to their projects, you will

What Will You will Learn and Experience?



- Pull Request (Basic Features)
 - Allowing leaders to **double check** modifications done by teammates
- Code Synchronization (Version Control on Web, VS, MATLAB etc)
 - Ensuring everyone is working on the **latest** code version
- Self-learning using GitHub resources
- Look for interesting issues on GitHub