OSS Leftovers

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- **Open source platforms, flexible airframes for new drones** [2]

  Multirotor drones excel at vertical lift and hover, while fixed wing drones are great at both distance and wide-open spaces. In February, Auterion Government Solutions and Quantum-Systems announced a two-pronged approach to the rotor- or fixed-wing drone market, with a pair of drones that use the same sensor packages and fuselage to operate as either the Scorpion Trirotor or the Vector fixed wing craft.

  ?As we started to develop our tactical UAS Platform, our plan was only to develop a VTOL fixed wing solution (like our Vector),? said Florian Siebel, managing director of Quantum-Systems. ?During the development process we decided to build a Tri-Copter Platform as well, as a result of many discussions with law enforcement agencies and Search and Rescue Units.? Adapting the fixed-wing fuselage to the tri-copter attachments means the drone can now operate in narrow spaces and harsh conditions. Scorpion, with the rotors, can fly for about 45 minutes, with a cruising speed of zero to 33 mph. Put the fixed wings back on for Vector, and the flight time is now two hours, with a cruising speed of 33 to 44 mph.

- **IEEE Standards Association Launches a Platform for Open Source Collaboration** [3]

- **Greg Smith on the strengths and drawbacks of open source software** [4]

  There are a lot of tire models available in the world. Most are closed source (or black box), meaning the program code behind them is not available to end users. This is understandable as the code can easily be licensed and its development paid for. Everyone?s got to make a living! This approach, however, makes it much harder to get the best out of the models ? if you can?t
see their internal workings, it’s harder to maximize their usefulness.

Other models, such as Magic Formula, are effectively open source, with the equations published in books and journal papers. This means that anyone (if they invest the time) can build and use their own Magic Formula solvers and, in the process, learn the details of how the model works.

In April 2015, during a session at the 4th International Tire Colloquium at Surrey University, UK, the general idea of open sourcing was discussed. In attendance were various figures from the commercial tire model development community, representatives from car and tire companies who use the models, and a large group of academics involved in more fundamental research. Issues were raised regarding everything from intellectual property concerns and licensing through to technical advances, development strategies and training. Boiling all this down, most discussions centered on one of two approaches.

- **First open-source AI for driverless agricultural vehicles** [5]

- **Huawei announced AI Computing Framework MindSpore as Open Source** [6]

  During the Huawei 2020 Developer Conference continues online, bringing the latest progress of The Wei Peng and Yan Teng Ecology. According to the agenda of the meeting, the first day of the developer conference (March 27) will focus on Peng Peng, the next day (March 28) will focus on The Teng.

- **New Chinese open-source AI platform launched** [7]

  Megvii Technology Limited has announced the launch of a new open-source artificial intelligence platform for developers, Shanghai Daily learned on Thursday.

  Other firms offering such platforms include tech giants like Google, Amazon, Facebook, Microsoft and Baidu.

- **Open-source AI infrastructure to boost innovation in China** [8]

  From smart fever-screening at subway stations to scan-reading diagnosis, artificial intelligence (AI) is on the frontline of China's battle against the novel coronavirus.
Behind the smart systems are deep-learning frameworks that emulate the way the human brain learns, like recognizing patterns and coping with ambiguity.

- **Megvii makes deep learning AI framework open-source as China moves to reduce reliance on US platforms**[9]

- **Noble.AI Contributes to TensorFlow, Google's Open-Source AI Library and the Most Popular Deep Learning Framework**[10]

  Noble.AI, whose artificial intelligence (AI) software is purpose-built for engineers, scientists, and researchers and enables them to innovate and make discoveries faster, today announced that it had completed contributions to TensorFlow, the world's most popular open-source framework for deep learning created by Google.

- **Google open-sources framework that reduces AI training costs by up to 80%**[11]

  Google researchers recently published a paper describing a framework ? SEED RL ? that scales AI model training to thousands of machines. They say that it could facilitate training at millions of frames per second on a machine while reducing costs by up to 80%, potentially leveling the playing field for startups that couldn't previously compete with large AI labs.

- **A case study: Improving patient outcomes with Open Source**[12]

  South London and Maudsley NHS Foundation Trust (SLaM) provides the widest range of NHS mental health services in the UK with 52 inpatient wards, outpatient, and community services. As recognition of their digital accomplishments, SLaM have been awarded GDE (Global Digital Exemplar) status.

  Following a two-year pilot of Open-eObs software, the trust had proven the long-term benefits of an open source approach and needed a supplier to further drive their digital ambition.

**OSS**

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