

A Japanese robotics engineer



& Links

- Twitter ♥:@Atsushi twi (https://twitter.com/atsushi twi)
- Blog in Japanese 3:MyEnigma (https://myenigma.hatenablog.com/)

- Youtube Atsushi Sakai (https://www.voutube.com/user/MrASakai/)
- Google Scholar
 ★Atsushi Sakai (https://scholar.google.com/citations?hl=en&user=oFlom3wAAAA1)
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- Email ☑ asakaig @ GMail.com

Open Source Software

- PvthonRohotics (https://github.com/AtsushiSakai/PythonRobotics) Python sample codes for robotics algorithms. | stars | 13k |
- SciPy (https://github.com/scipy/scipy) An open-source software for mathematics, science, and engineering. I'm a member of SciPy developer organization.
- PyAdvancedControl (https://qithub.com/AtsushiSakai/PyAdvancedControl) Python sample codes for advanced control.
- PyOptSamples (https://github.com/AtsushiSakai/PyOptSamples) Python sample codes for numerical optimization.
- MATLABRobotics (https://qithub.com/AtsushiSakai/MATLABRobotics) MATLAB sample codes for autonomous navigation in robotics
- SimpleTkGUIKit (https://pypi.python.org/pypi/SimpleTkGUIKit/) Simple GUI kit with python Tkinter
- googleearthplot (https://pypi.python.org/pypi/googleearthplot) KML file generator for plotting on Google Earth
- pvcubicspline (https://qithub.com/AtsushiSakai/pycubicspline) Cubic spline library on python
- roshag to csy (https://github.com/AtsushiSakai/roshag to csy) A GLII tool to convert tonics from a roshag file to csy files
- · rosbag_filter_gui (https://github.com/AtsushiSakai/rosbag_filter_gui) A GUI tool to filter topics in a rosbag file.
- matplotlib-cop-starter (https://github.com/AtsushiSakai/matplotlib-cop-starter) A header library to use matplotlib from C++ code
- · numpycpp (https://github.com/AtsushiSakai/numpycpp) A c++ header library for matrix operation inspired Numpy and Scipy using Eigen.
- · julia.vim (https://github.com/AtsushiSakai/julia.vim) A Vim plugin for Julia coding.
- PyJSONViewer (https://github.com/AtsushiSakai/PyJSONViewer) A JSON file data viewer using pure python
- PyCoolPlot (https://github.com/AtsushiSakai/PyCoolPlot) A cool plotting module on Python
- pyplotjuggler (https://github.com/AtsushiSakai/pyplotjuggler) Python plot juggler
- PyRoombaAdapter (https://github.com/AtsushiSakai/PyRoombaAdapter) A Python library for Roomba Open Interface
- SciPy.jl (https://github.com/AtsushiSakai/SciPy.jl) A Julia interface for SciPy using PyCall.jl.

Publications

- · X. Zhang, A. Liniger, A. Sakai and F. Borrelli, "Autonomous Parking using Optimization-Based Collision Avoidance", IEEE Conference on Decision and Control (CDC)
- (https://cdc2018.ieeecss.org/), Dec 2018. Link (https://ieeexplore.ieee.org/document/8619433), [open-source code] (https://github.com/XiaojingGeorgeZhang/H-OBCA)
- Atsushi Sakai, Daniel Ingram, Joseph Dinius, Karan Chawla, Antonin Raffin: "PythonRobotics: a Python code collection of robotics algorithms", arXiv:1808.10703, (2018); Link
- Atsushi Sakai, and Yoji Kuroda. "Discriminatively Trained Unscented Kalman Filter for Mobile Robot Localization." Journal of Advanced Research in Mechanical Engineering 1.3 (2010). Link (https://sites.google.com/site/atsushisakaishomepage/paper-list/Discriminatively%20Trained%20Unscented%20Kalman.pdf?attredirects=0&d=1)
- Y. Kuroda, A. Sakai, Y. Tamura, "Six-Degree-of-Freedom Localization using an Unscented Kalman Filter for Planetary Rovers", Journal of Advanced Robotics 24 (8-9), 1199-1218 (2010). Link (https://www.tandfonline.com/doi/abs/10.1163/016918610X501273)
- Alsushi Sakai, Teppei Saitoh, and Yoji Kuroda. "Robust landmark estimation and unscented particle sampling for SLAM in dynamic outdoor environment." Journal of Robotics and Mechatronics 22.2 (2010): 140. Link (https://www.fuiipress.ip/irm/rb/robot002200020140/)
- A. Sakai, M. Mitsuhashi, and Y. Kuroda, "Noise model creation for visual odometry with neural-fuzzy model" 2010 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2010), Taipei, Taiwan, 2010, pp. 5190-5195. Link (https://ieeexplore.ieee.org/abstract/document/5651185)
- . A. Sakai, Y. Tamura and Y. Kuroda, "An efficient solution to 6DOF localization using Unscented Kalman Filter for planetary rovers," 2009 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS2009), St. Louis, MO, 2009, pp. 4154-4159. Link (https://ieeexplore.ieee.org/abstract/document/5354677)



■ Talks

- 『The Full Autonomous Racing System 概説』 (https://docs.google.com/presentation/d/1PTq1ZTDpa PAkXMJO7lsR9G-EzYDayarLOmScTw3qBs/edit2usp=sharing) 第6回 HarajukuSOuare(@Segsense^{‡†}) 2019/05/31 (https://www.segsense.com/)
- "PythonRobotics: a Python code collection of robotics algorithms." (https://docs.google.com/presentation/d/1QhcGvjxO_zBzwlKxZYbsmWFkct_h7eXDrZ82JqsGVYg/edit? usp=sharing) ROS Japan UG #27 勉強会 2018/12/17 (https://rosjp.connpass.com/event/111853/)
- 『トレーラトラックの自動駐車計画アルゴリズムの紹介』 (https://docs.google.com/presentation/d/13tuWC_POpDRrIvYQc34wHeW895TP9278VQiRmRluus4/edit?usp=sharing) ROS Japan UG #24 勉強会 2018/06/20 (https://rosjp.connpass.com/event/89616/presentation/)

Web Apps

- . Today Tool (https://atsushisakai.github.io/TodayTool/)
- . Tex Converter (https://atsushisakai.github.io/tex-tool/)













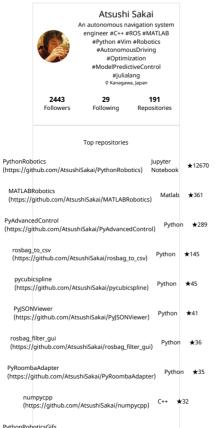


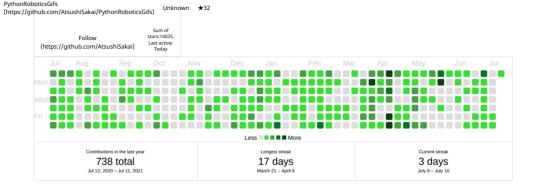






6 GitHub Widget







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ツイート 1

For more details and requests, contact @Atsushi_twi (https://twitter.com/atsushi_twi).