

CLEARPATH



Erle Robotics



Rapyuta Robotics



Sensor Intelligence.



Northwestern
McCORMICK SCHOOL
OF ENGINEERING
MS in Robotics



AVIDBOTS



bonsai



BOSCH
Invented for life



The Construct
Just Simulate



MAGAZINO
simple storage



PlusOne
Robo+ics



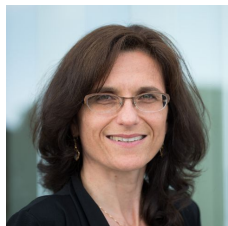
Video recording
& archiving:



Live streaming:



Organizing Committee



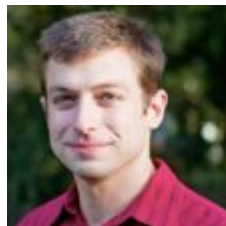
Elizabeth Croft



Tully Foote



Ryan Gariepy



Brian Gerkey



Deanna Hood

Program Committee (in addition to OC)



Niharika Arora



Denise Eng



Kaijen Hsiao



Ingo Lütkebohle



Ian McMahon



Allison Thackston

The real organizers



Roberta Friedman



Karlyanna Kopra

Diversity Program

Committee



Mikael Arguedas



Tully Foote



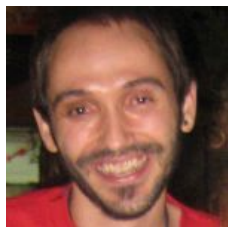
Deanna Hood



Steven Peters



Louise Poubel



Jose Luis Rivero



Steffi Paepcke



Steven! Ragnarök

Sponsors



16 Diversity Scholars from 9 countries

Lightning Talks



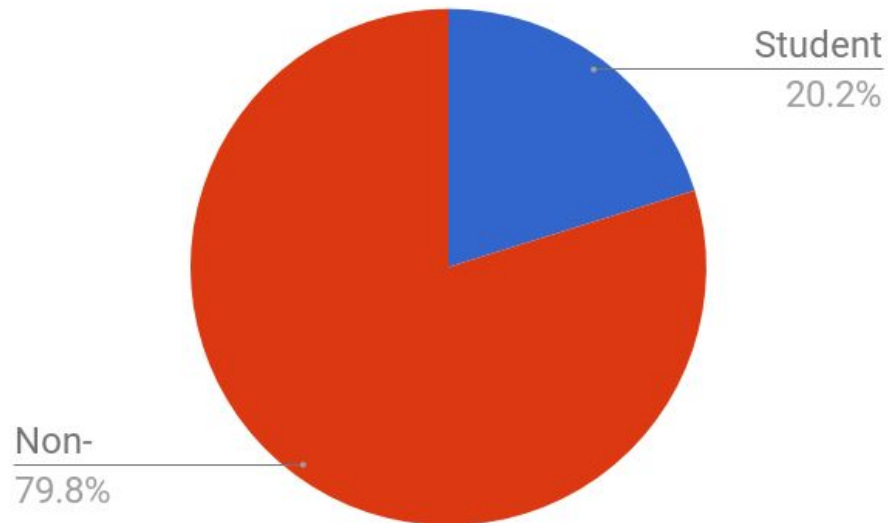
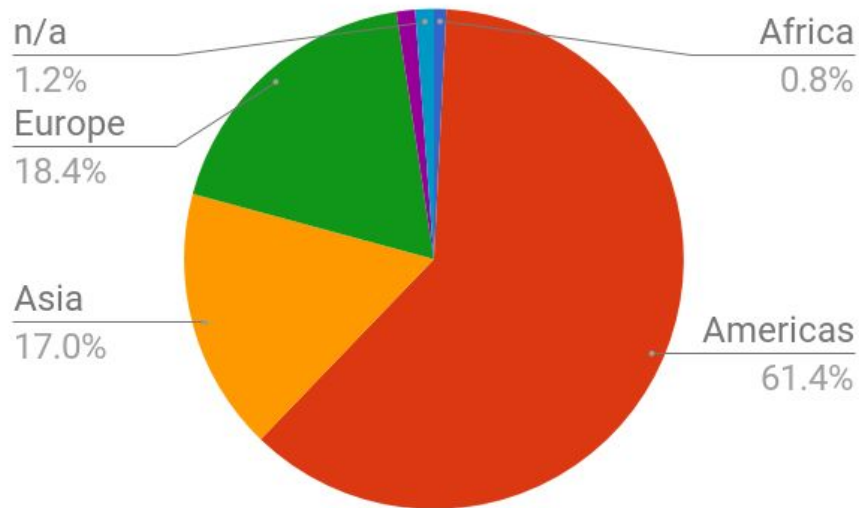
Session 1: 14:55 today

Session 2: 14.50 tomorrow

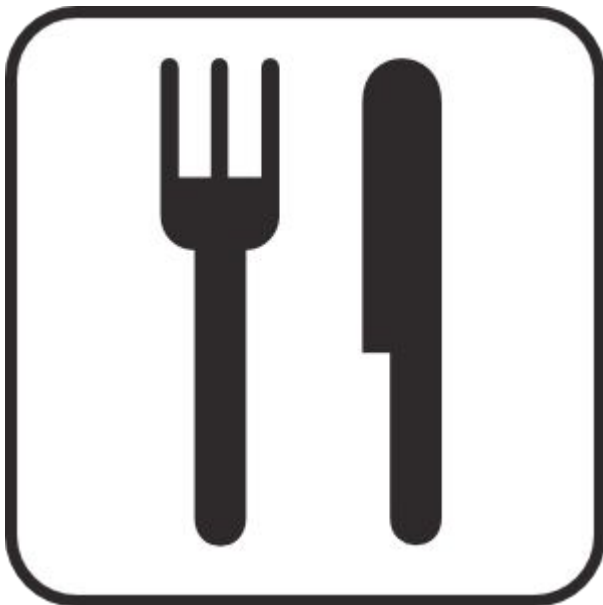
Sign up by submitting your name and/or slides at the **registration desk**.

Signup deadline: **12:30 each day**

Attendee breakdown



Total: 500 (sold out)



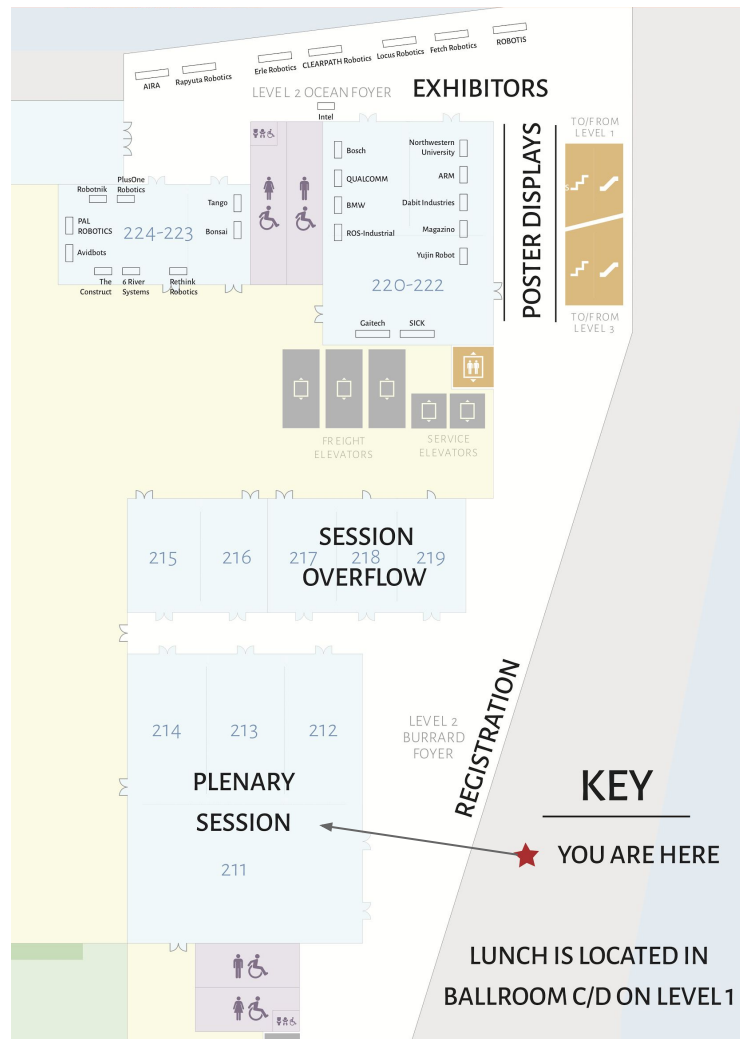
**AM & PM breaks
Lunches**

Plusone
Robotics



**Reception
18:00 today**

 **fetch**
robotics





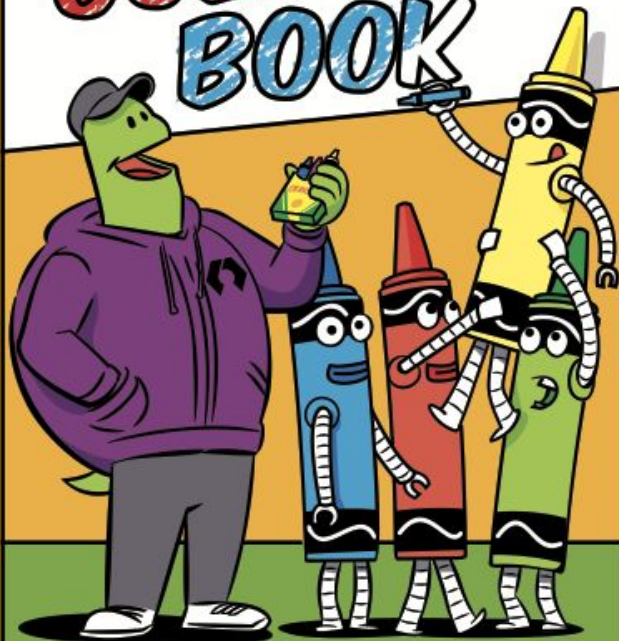
SSID: ROSCon2017
Password: awesomebots



Communicate like a President!

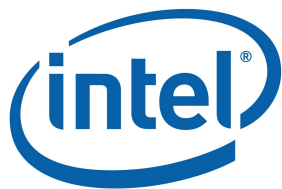
@OSRFoundation
#ROSCON17

ROBOT COLORING BOOK



Illustrated by Josh Ellingson





CLEARPATH



Erle Robotics



Rapyuta Robotics



Sensor Intelligence.



Northwestern
McCORMICK SCHOOL
OF ENGINEERING
MS in Robotics



AVIDBOTS



bonsai



BOSCH
Invented for life



The Construct
Just Simulate



MAGAZINO
simple storage



PlusOne
Robo+ics



Video recording
& archiving:



Live streaming:



ROSCon 6 years



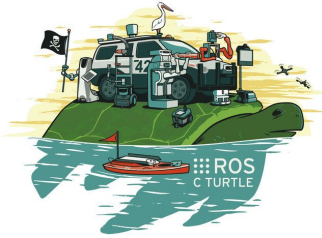
ROSCon 2012



ROS 10 years 11 Distros



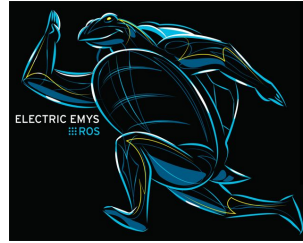
2010



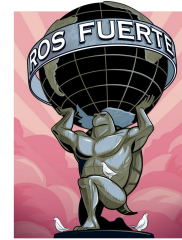
2010



2011



2011



2012



2012



2013



2014



2015

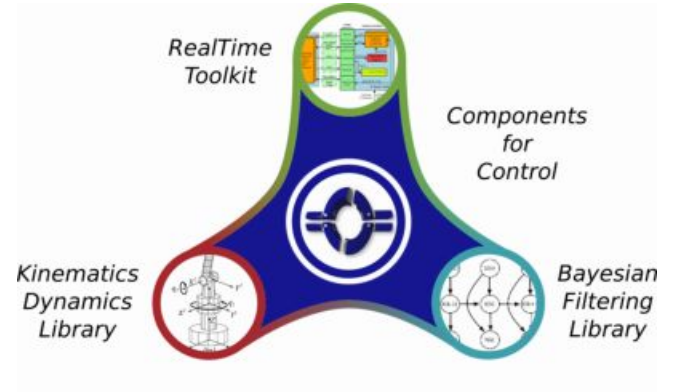
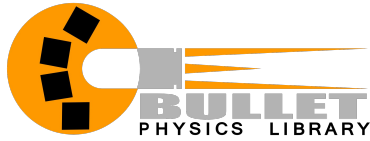


2016

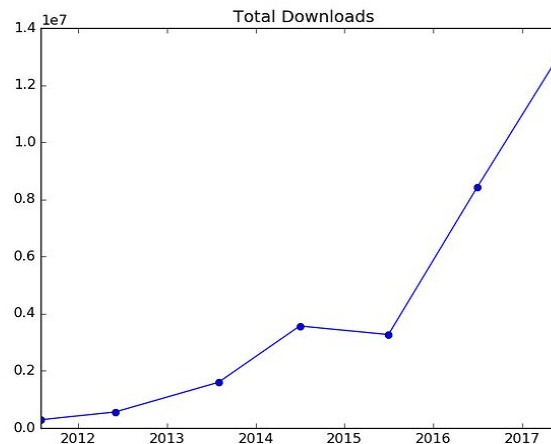
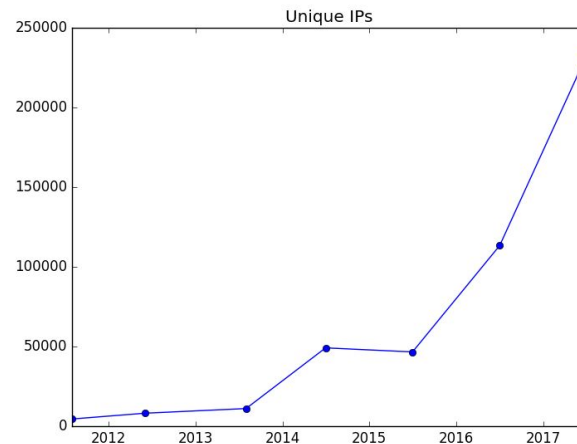
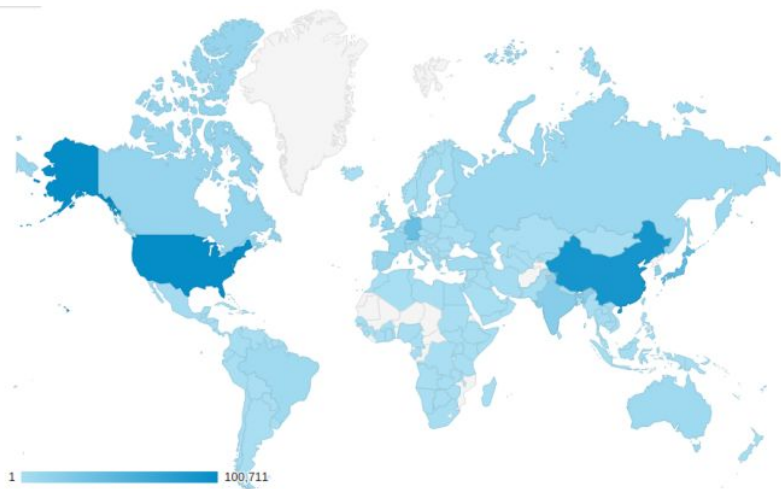


2017

ROS is not alone



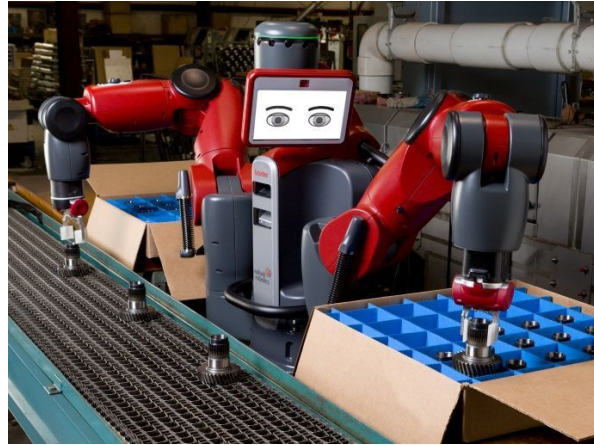
2017 Metrics Highlights



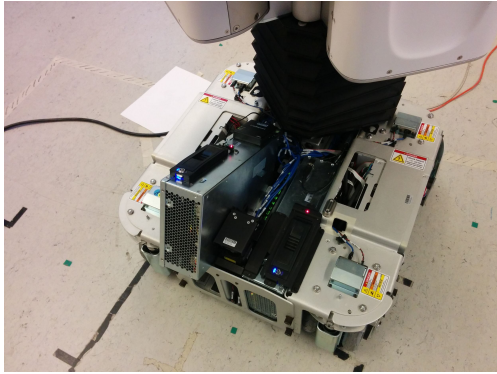
5 Generations of Hosting Platforms

Platform	 SUBVERSION	 mercurial	 git
SourceForge.net	■		
code.ros.org	■		
kforge.ros.org	■	■	■
google-code	■	■	
Github, BitBucket, GitLab...		■	■

Landmark Robots



Computational Changes



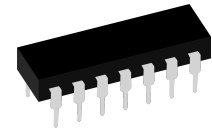
~1 kW



~20 W



~1 W



<< 1 W

Successful Exits

Nokia Closes Its \$2.8B Sale Of Here To The Audi, BMW And Daimler Car Consortium

Posted Dec 4, 2015 by [Ingrid Lunden \(@ingridlunden\)](#)



One of the bigger makers of maps and location services used in mobile phones and connected cars has now been taken over by a consortium of car makers. Today Nokia **completed** its sale of Here to Audi AG, BMW Group and Daimler AG for €2.55 billion (\$2.8 billion). **The deal was originally announced in August**, pending regulatory approval, at an original price of €2.8 billion, "subject to certain purchase price adjustments."

<https://techcrunch.com/2015/12/04/nokia-closes-its-2-8b-sale-of-here-to-the-audi-bmw-and-daimler-car-consortium/>



Driven in the Valley: The Startup Founders Fueling GM's Future

Cruise Automation sold to GM for \$1 billion; now its founders are racing to bring a self-driving car to the masses.

Statistically speaking, most of us will never build a billion-dollar company. We definitely won't build two of them. If any of us did pull that off, we'd most likely feel pretty satisfied with ourselves. We'd retire. Travel the world, maybe. Do a TED Talk, definitely.

<http://fortune.com/cruise-automation-general-motors-driverless-cars/>

Deere to acquire Blue River Technology for \$305 million

By [Wallace Witkowski](#)

Published: Sept 6, 2017 6:16 p.m. ET

SHARE

COMMENTS

Aa

Deere & Co. **DE, +2.66%** said late Wednesday it's acquiring Blue River Technology to increase the machine-learning capabilities of farm equipment. Deere said it is paying \$305 million to acquire the Sunnyvale, Calif.-based company, which uses computer imaging and machine learning for agricultural spraying and weeding equipment. Deere expects to close the acquisition in September. Shares of Deere were unchanged after hours at \$116.22.

<http://www.marketwatch.com/story/deere-to-acquire-blue-river-technology-for-305-million-2017-09-06>

Recent Trend: Automotive

Baidu's Project Apollo

[ApolloAuto / apollo](#) Watch 508 Star 5,775 Fork 1,183

Code Issues 54 Pull requests 0 Projects 0 Wiki Insights

An open autonomous driving platform

apollo autonomous-vehicles autonomous-driving autonomy

2,366 commits 3 branches 2 releases 52 contributors Apache-2.0

<https://github.com/ApolloAuto/apollo>

Autoware

[CPFL / Autoware](#) Watch 221 Star 1,142 Fork 533

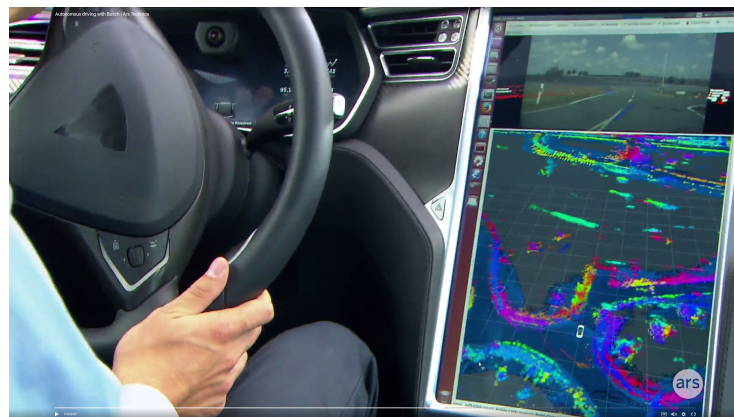
Code Issues 51 Pull requests 9 Projects 0 Wiki Insights

Open-source software for urban self-driving mobility

autoware autonomous-vehicles ros 3d-map detection planner calibration

2,203 commits 42 branches 9 releases 36 contributors BSD-3-Clause

<https://github.com/CPFL/Autoware>



-- Bosch Autonomous Model S running rviz

<https://goo.gl/9faYr1>

“We use the latest technologies, such as ROS (Robot Operating System), and are able to see the results quickly and directly in the vehicle. It is extremely exciting to be working on such an important area for the future.”

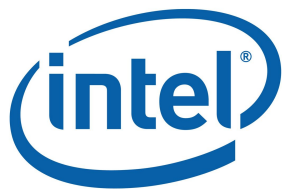
-- André Müller, BMW

<https://goo.gl/TRNCmP>

Thank you and please keep contributing!

- Ask (and answer!) questions on <https://answers.ros.org>
- Open issues and create pull requests on individual projects issue trackers
- Improve the documentation on the wiki
- Create packages
- Let the world know that you're using ROS!
 - Announce your projects on <https://discourse.ros.org>

Welcome to ROSCon!



CLEARPATH



Erle Robotics



Rapyuta Robotics



Sensor Intelligence.



Northwestern
McCORMICK SCHOOL
OF ENGINEERING
MS in Robotics



AVIDBOTS



bonsai



BOSCH
Invented for life



The Construct
Just Simulate



MAGAZINO
simple storage



PlusOne
Robo+ics



Video recording
& archiving:



Live streaming:

