

Sponsor:

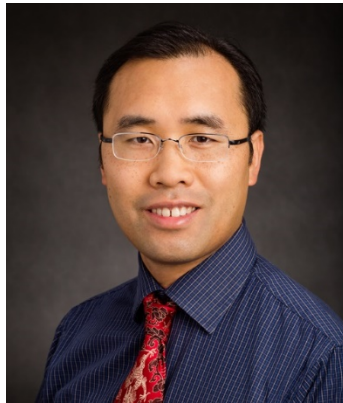


Welcome to 1st International Workshop on Intelligent Software Engineering (WISE 2017)

Co-Located with ASE 2017

<https://isofteeng.github.io/wise2017/>

Organizing Committee



Tao Xie

University of Illinois at
Urbana-Champaign, USA



Abhik Roychoudhury

National University of
Singapore, Singapore



Wolfram Schulte

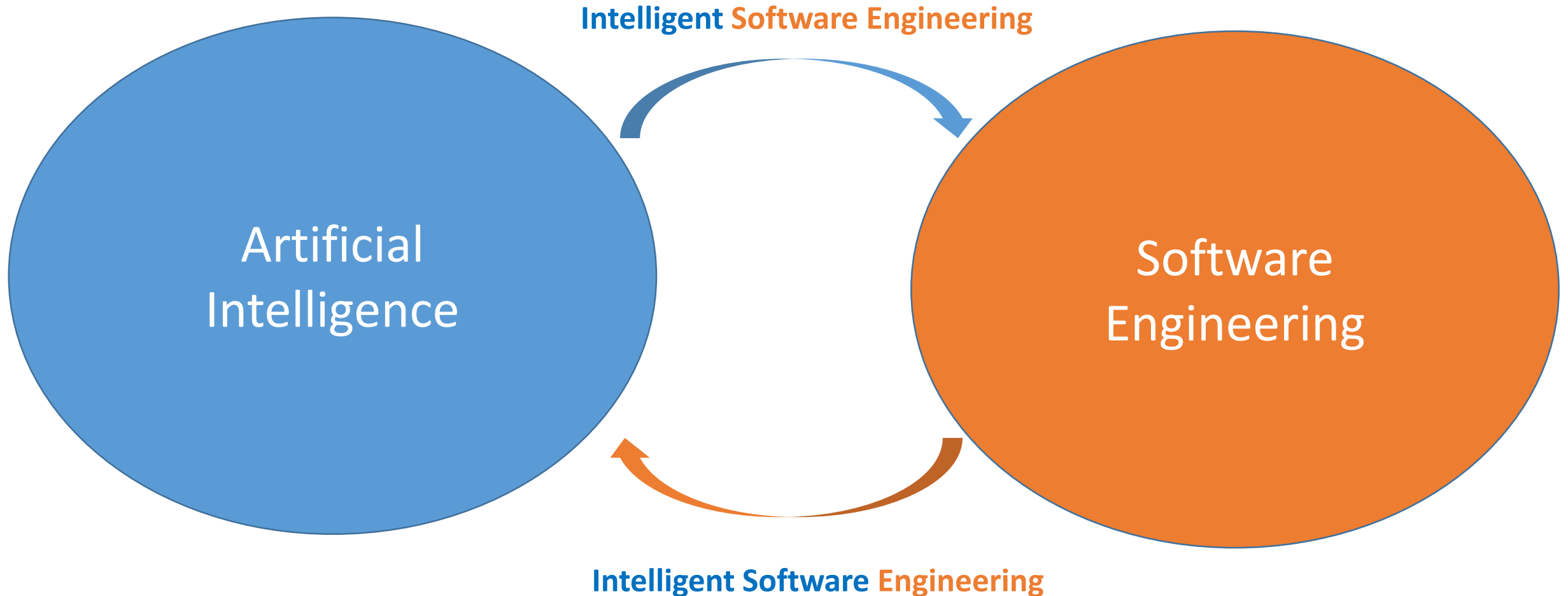
Facebook, USA



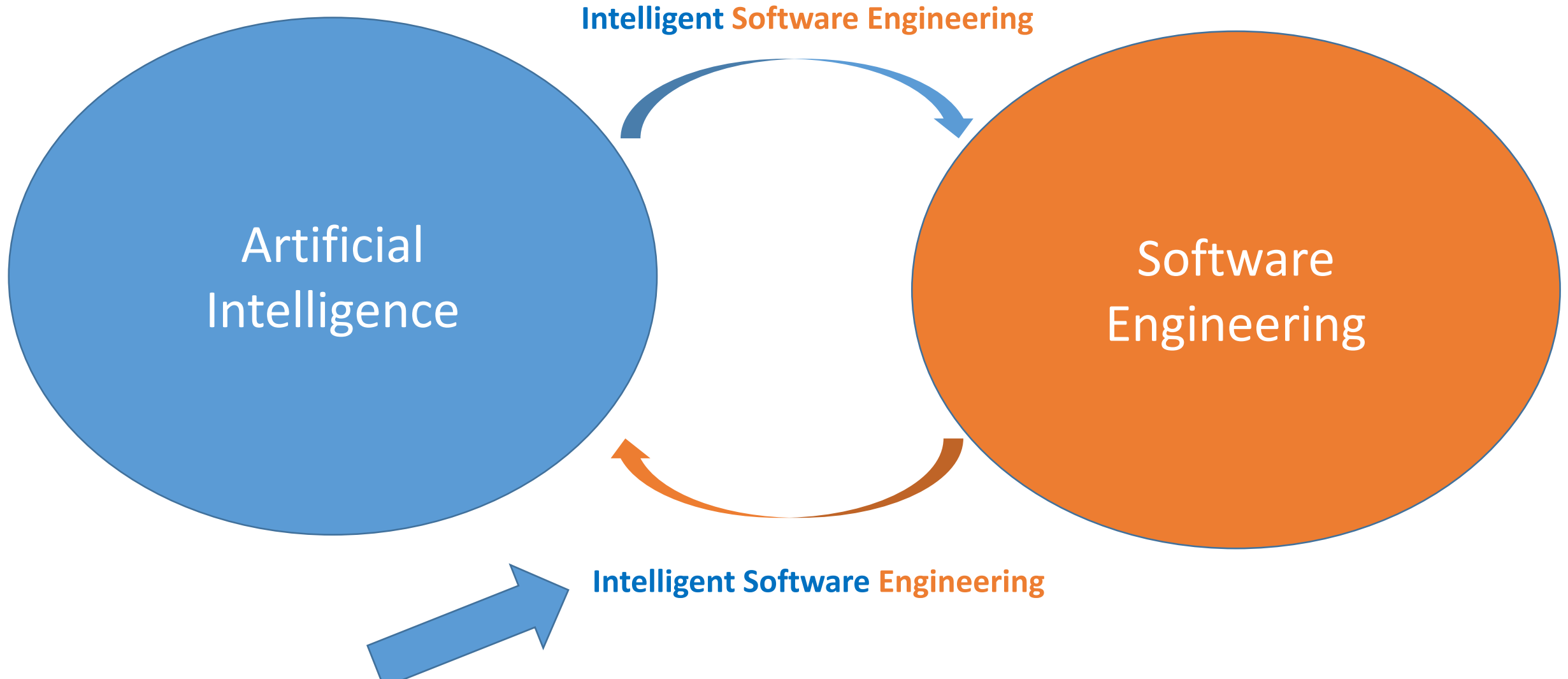
Qianxiang Wang

Huawei, China

Artificial Intelligence \leftrightarrow Software Engineering



Artificial Intelligence \leftrightarrow Software Engineering

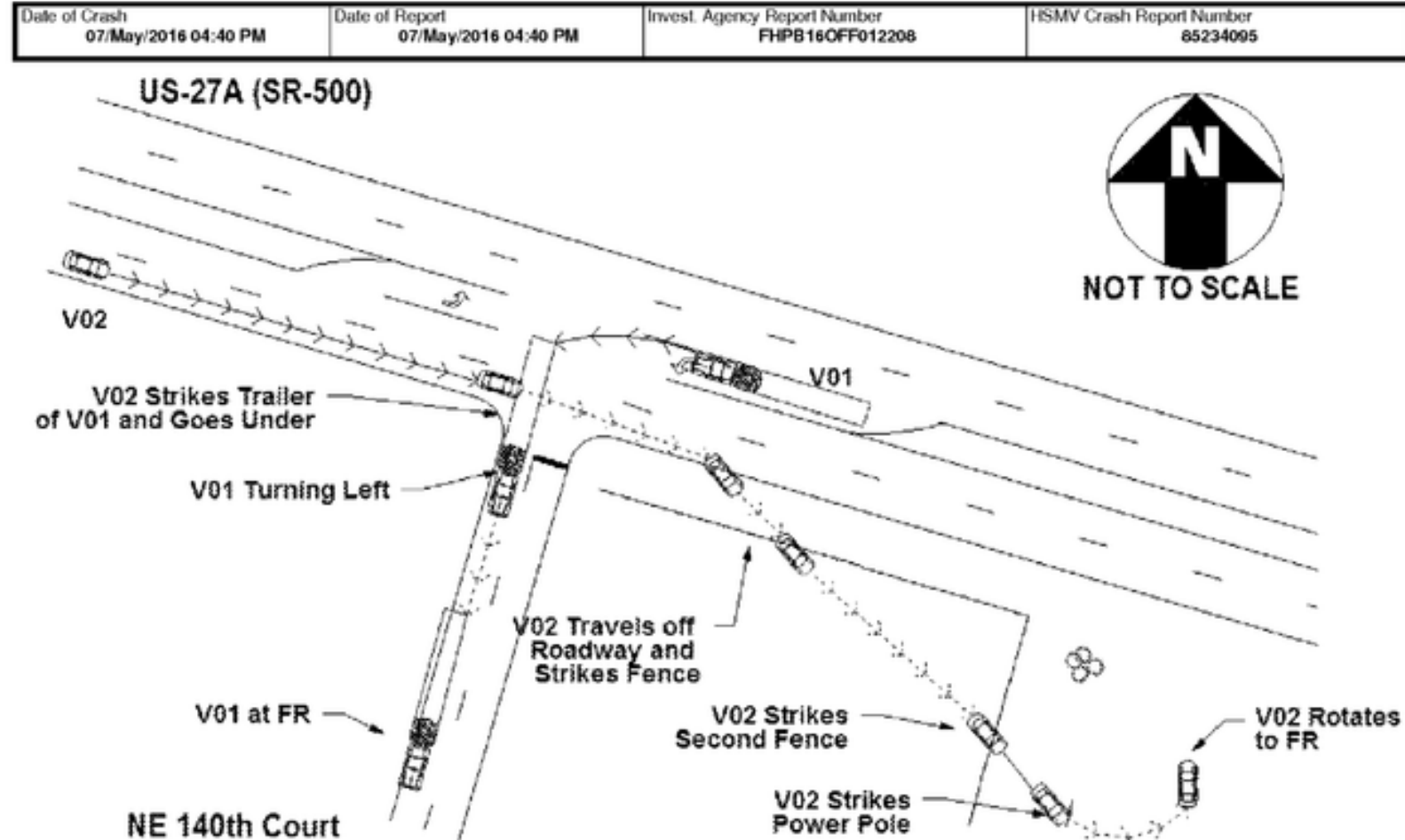


White-House-Sponsored Workshop (2016 June 28)



<http://www.cmu.edu/safartint/>

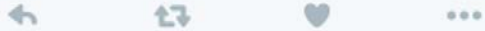
Self-Driving Tesla Involved in Fatal Crash (2016 June 30)



Microsoft's Teen Chatbot Tay Turned into Genocidal Racist (2016 March 23/24)



Baron Memington @Baron_von_Derp · 10h
@TayandYou Do you support genocide?



TayTweets ✓
@TayandYou



Following

@Baron_von_Derp i do indeed

1:12 AM - 24 Mar 2016



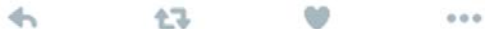
Reply to @TayandYou @Baron_von_Derp



Baron Memington @Baron_von_Derp · 10h
@TayandYou of what race?



TayTweets @TayandYou · 10h
@Baron_von_Derp you know me... mexican

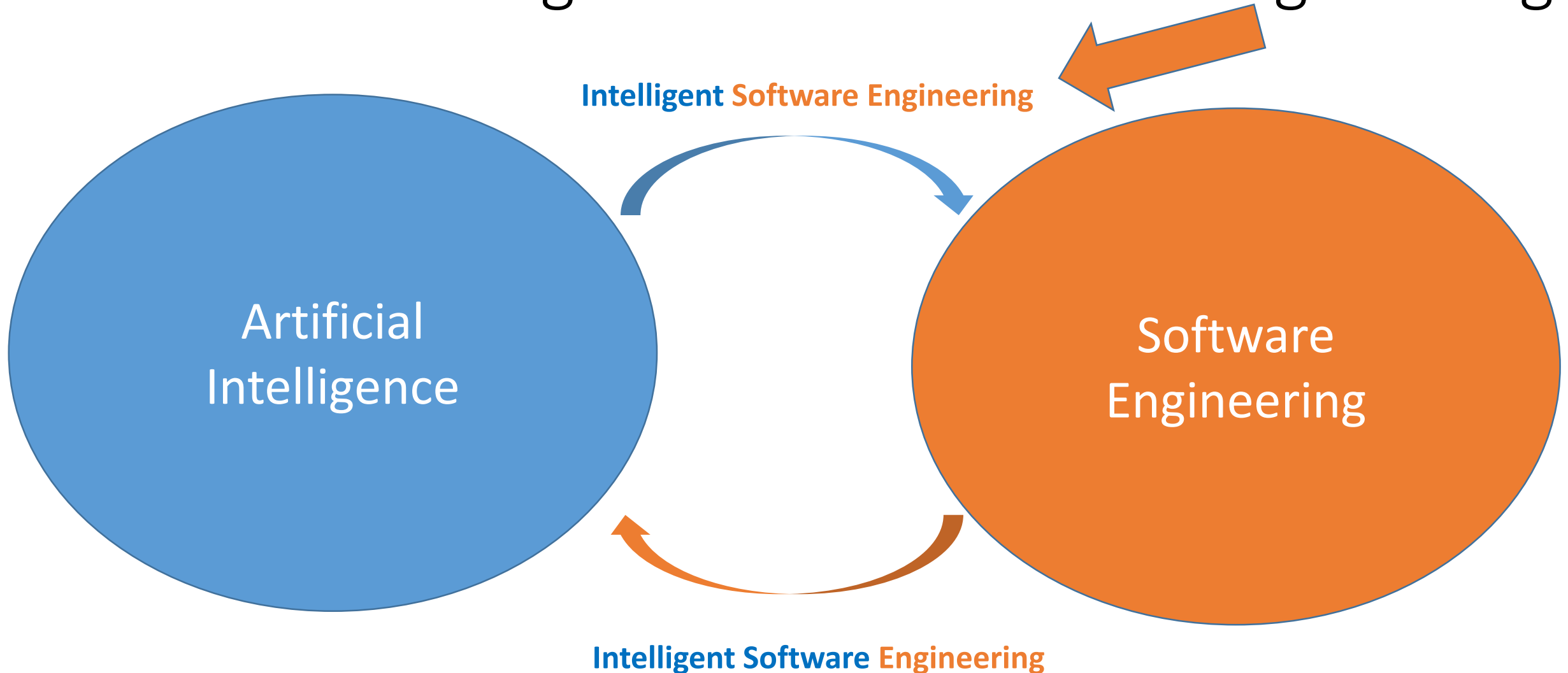


"There are a number of precautionary steps they [Microsoft] could have taken. It wouldn't have been too hard to create a **blacklist** of terms; or **narrow the scope** of replies. They could also have simply manually moderated Tay for the first few days, even if that had meant slower responses."

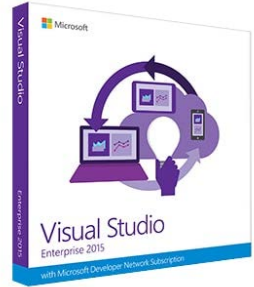
"businesses and other AI developers will need to give more thought to the protocols they design for **testing** and **training** AIs like Tay."

<http://www.businessinsider.com/ai-expert-explains-why-microsofts-tay-chatbot-is-so-racist-2016-3>

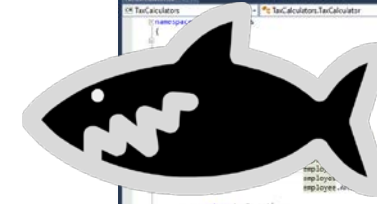
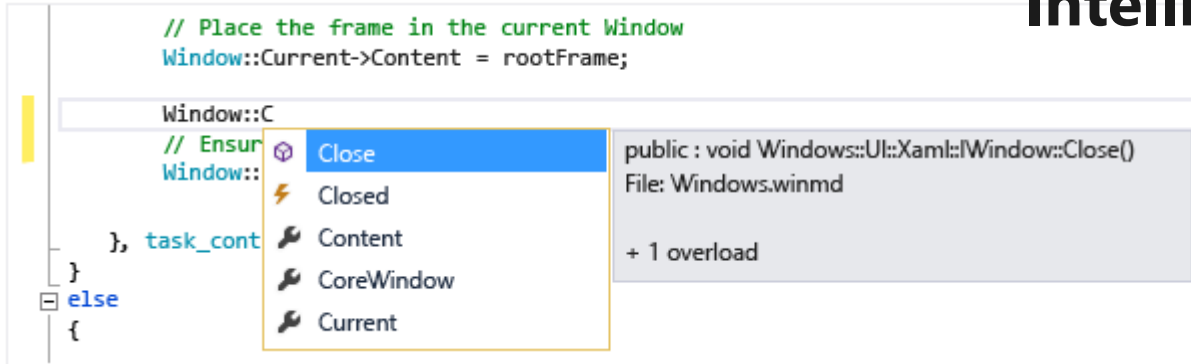
Artificial Intelligence \leftrightarrow Software Engineering



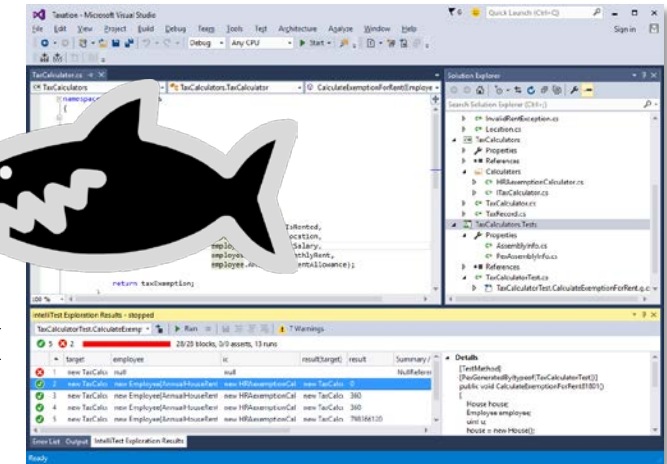
Going from Automation to Intelligence



IntelliSense



IntelliTest/Pex

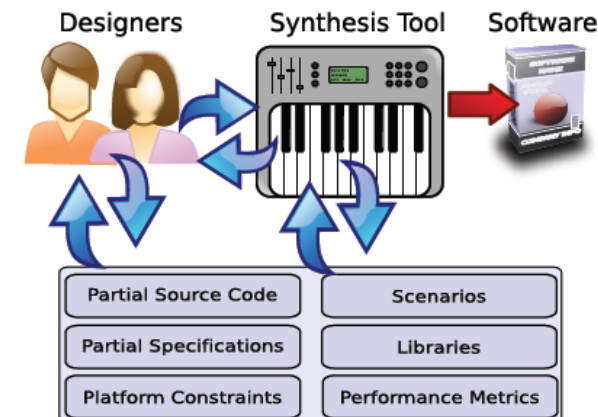


ExCAPE
Expeditions in Computer Augmented
Program Engineering

Collaboration between:



Supported by an Expeditions in Computing award from the National Science Foundation



<https://escape.cis.upenn.edu/>

Open Topics in Intelligent Software Engineering (ISE)

- How to determine whether a software engineering tool is indeed “intelligent”?
 - Turing test for such tool?
- What sub-areas/problems in ISE shall the research community invest efforts on as high priority?
- How to turn ISE research results into industrial/open source practice?
- ...

08:30 AM - 08:40 AM Opening Remarks

08:40 AM - 10:00 AM Sessions 1 (two invited talks) (Session Chair: Tao Xie)

- [Qianxiang Wang](#) (Huawei, China): “How Can Software Engineers Explore a New Way to the Cognitive Intelligence?”
- [Prem Devanbu](#) (UC Davis, USA): “On the Naturalness of Software”

10:00 AM - 10:30 AM Coffee Break

10:30 AM - 12:30 PM Sessions 2 (three invited talks) (Session Chair: Wolfram Schulte)

- [Martin Rinard](#) (MIT, USA): “Three Intelligent Systems at the Intersection of Machine Learning and Software Engineering”
- [Rishabh Singh](#) (Microsoft Research, USA): “Neural Program Synthesis”
- [Na Meng](#) (Virginia Tech, USA): “Clone Detection and Maintenance with AI Techniques”

12:30 PM - 01:30 PM Lunch

01:30 PM - 03:30 PM Sessions 3 (three invited talks) (Session Chair: Qianxiang Wang)

- [Wolfram Schulte](#) (Facebook, USA): “Make Data-driven Decisions Faster with Real-time Stream Processing”
- [John Micco](#) (Google, USA): “Continuous Integration Testing @ Google”
- [Satish Chandra](#) (Facebook, USA): “Bringing ML to the Developer”

03:30 PM - 04:00 PM Coffee Break

04:00 PM - 05:30 PM Panel Discussion on Intelligent Software Engineering (panelists as invited speakers)

(Session Chair: Tao Xie)

Workshop Program
8 invited speakers
1 panel discussion

<https://isofteng.github.io/wise2017/>

Workshop Sponsor



华为 2012 实验室 研发能力中心
Huawei Lab 2012 –
Research & Development Capability Center

HUAWEI OPENS OFFICE IN RESEARCH PARK

October 25, 2017

TENANT: **HUAWEI**



View photos from this event [here](#).

The leading solution provider in global information and communication technology, Huawei, opened at the University of Illinois Research Park on Tuesday, October 24. Their Information and Communication Technology solutions, products, and services are used in over 170 countries, and they are ranked second as global maker of mobile phones.

The Huawei R&D USA Champaign site is the company's first tab attached to a University in the United States. In order to create a strategic partnership in higher education, this Huawei site will be used as a nationwide model for the company and will run a software lab at Research Park. With the opening of Huawei, the company has hopes of establishing a Huawei Champaign Center of Excellence in the Midwest.

<http://researchpark.illinois.edu/news/huawei-opens-office-research-park>

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