WALLENBERG AI, AUTONOMOUS SYSTEMS AND SOFTWARE PROGRAM

Bo Wahlberg, WASP KTH https://www.wasp.kth.se/











WASP KTH Management

Annika Stensson TrigellProfessor in Vehicle DynamicsKTH Vice President for ResearchMember of the WASP Board

Bo Wahlberg Professor in Automatic Control (EECS/IS/DCS) WASP KTH Director Member of the WASP Management since the start 2015







WASP KTH Administration

Polina Mörk WASP KTH Finance

Maria Malmqvist WASP KTH Communication

Christer Magnusson WASP KTH Assistant









WASP KTH Faculty Recruitments



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Li Haoliang

Post doctor

103 WASP KTH PhD students

- WASP AS KTH PhD Students Batch 1
- WASP AS KTH PhD Students Batch 2
- WASP AI KTH PhD Students Batch 1
- WASP AS KTH PhD Students Batch 3
- WASP AI KTH PhD Students Batch 2

Please update your KTH Profile with WASP Project Information, ORCID and Photo!



Excellence in Research & Communication (Marketing)

From Google: What is scientific progress?

The answer is simple. Science makes progress precisely when it shows the accumulation of *scientific knowledge*; an episode in science is progressive when at the end of the episode there is more knowledge than at the beginning.

So how do we measure our own progress in science?

Scientific Results: Conference & journal publications, PhD thesis, citations, invited talks, awards,....

This work was supported by the Wallenberg AI, Autonomous Systems and Software Program (WASP)

DiVA, <u>https://www.diva-portal.org</u> ArXiv, <u>https://arxiv.org</u> ORCID, <u>https://orcid.org</u>

Google Scholar,...



Science is Collaboration (and Competition)

KTH Digital Futures, https://www.digitalfutures.kth.se

Digital technologies to bring solutions to societal challenges



Internationalization: Stanford University, UC Berkeley, Nanyang Technological University (NTU in Singapore) and MIT are WASP International Partner Universities

- Study trips
- 3-6 months research stints
- Postdoc program



- Time constants in science?
- Trends in AI?



Gartner Hype Cycle 2020

Explainable AI Embedded AI Responsible AI Digital Twin Generative AI Composite AI Adaptive ML GANS Self-Supervised Learning

Hype Cycle for Emerging Technologies, 2020



Gartner Hype Cycle 2019

Autonomous driving 5G Cloud/Edge AI

Gartner Hype Cycle for Emerging Technologies, 2019







- Time constants in science?
- Trends in AI?
- Industrial Impact



C3.ai, a leading innovator in enterprise AI software for accelerating digital transformation



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- Professor UC Berkeley
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PRINCETON UNIVERSITY		CAGO	Stanford University		N	' 5 A		BERKELEY LAB



- C3 AI 140 billion SEK, public dec 2020
- Astra Zeneca 700 billion SEK
- Spotify 600 billion SEK
- Ericsson 333 billion SEK
- SEB 180 billion SEK, ABB

- Time constants in science?
- Trends in AI?
- Business Impact
- The need of basic scientific knowledge/PhD courses?



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Questions from you?

