AI LAB AT URI LIBRARIES

KARIM BOUGHIDA

@KBOUGHIDA

DEAN OF URI LIBRARIES

CNI FALL 2017 MEMBERSHIP MEETING

DECEMBER 11-12, 2017 WASHINGTON, DC

#CNI17F

#AILIB

WINTER

URI

THE UNIVERSITY OF RHODE ISLAND
COLLEGE OF BUSINESS ADMINISTRATION

URI ENTREPRENEURSHIP

2018

JTERM

INNOVATION CLASSES

TAKE A JOB : MAKE A JOB

BUS 247 • **Business of Innovation: the Design Process** • T, W, F • 11AM–3PM • 3 Credits

Creativity meets business. Learn practical skills that promote efficient and effective creative process, develop your concepts through sketching, design thinking, storyboards, and mindmaps to discover creative strategies and achieve problem solving solutions for either entrepreneurship or intrapreneurship. Experience hands-on visual activities to nurture a growth-mindset, expand frontiers of innovation, and strengthen imagination.

dataspark

URI SPARC

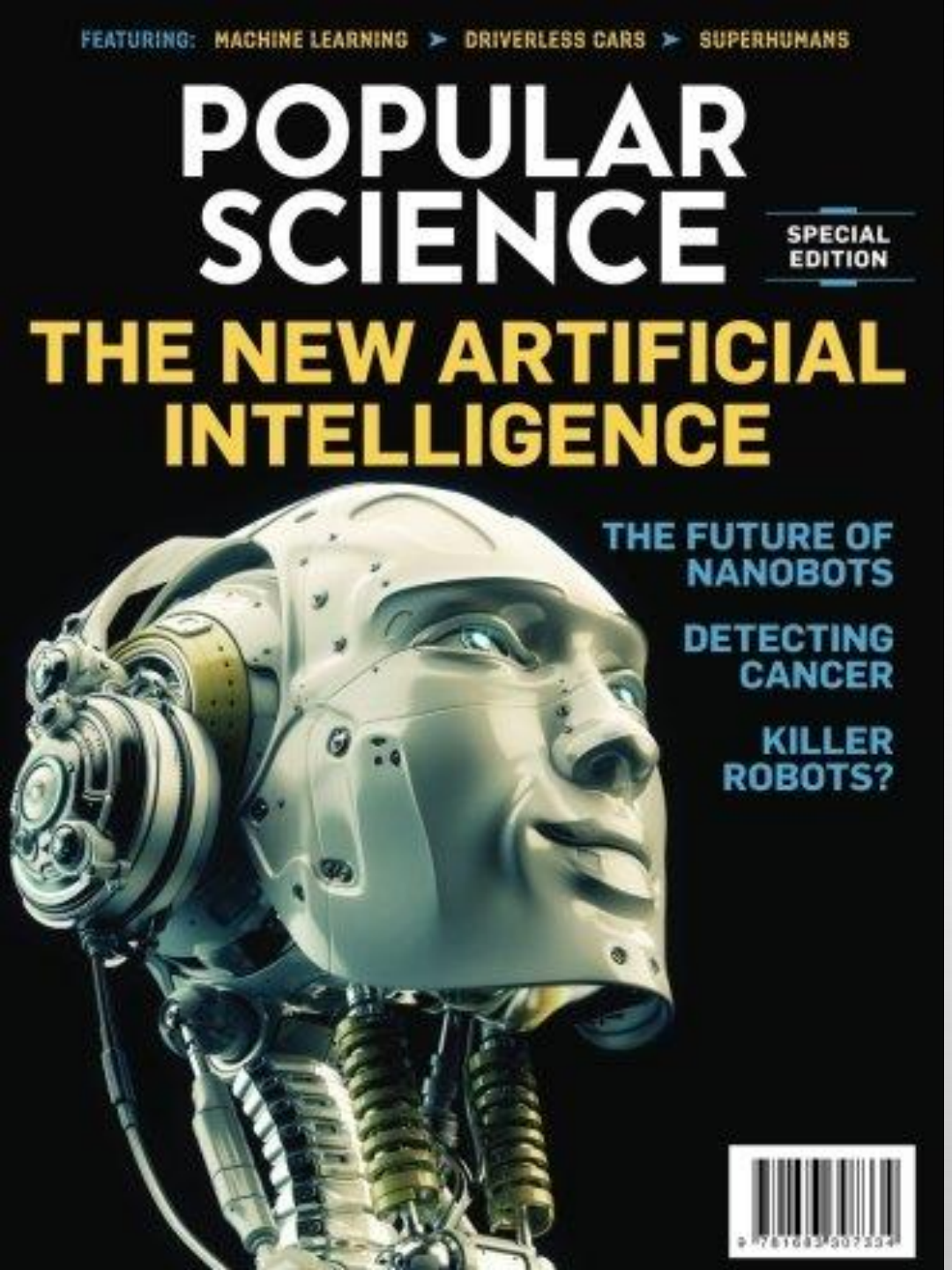
WHAT IS AI?
[PUT YOUR OWN DEFINITION]

WHAT IS DATA SCIENCE?
[PUT YOUR OWN DEFINITION. NSF IS FUNDING ITS SCHOLARSHIP]

WHY AI?

TIME
SPECIAL EDITION
Artificial Intelligence
The Future of Humankind

PRICE $8.99
THE NEW YORKER
OCT. 23, 2017

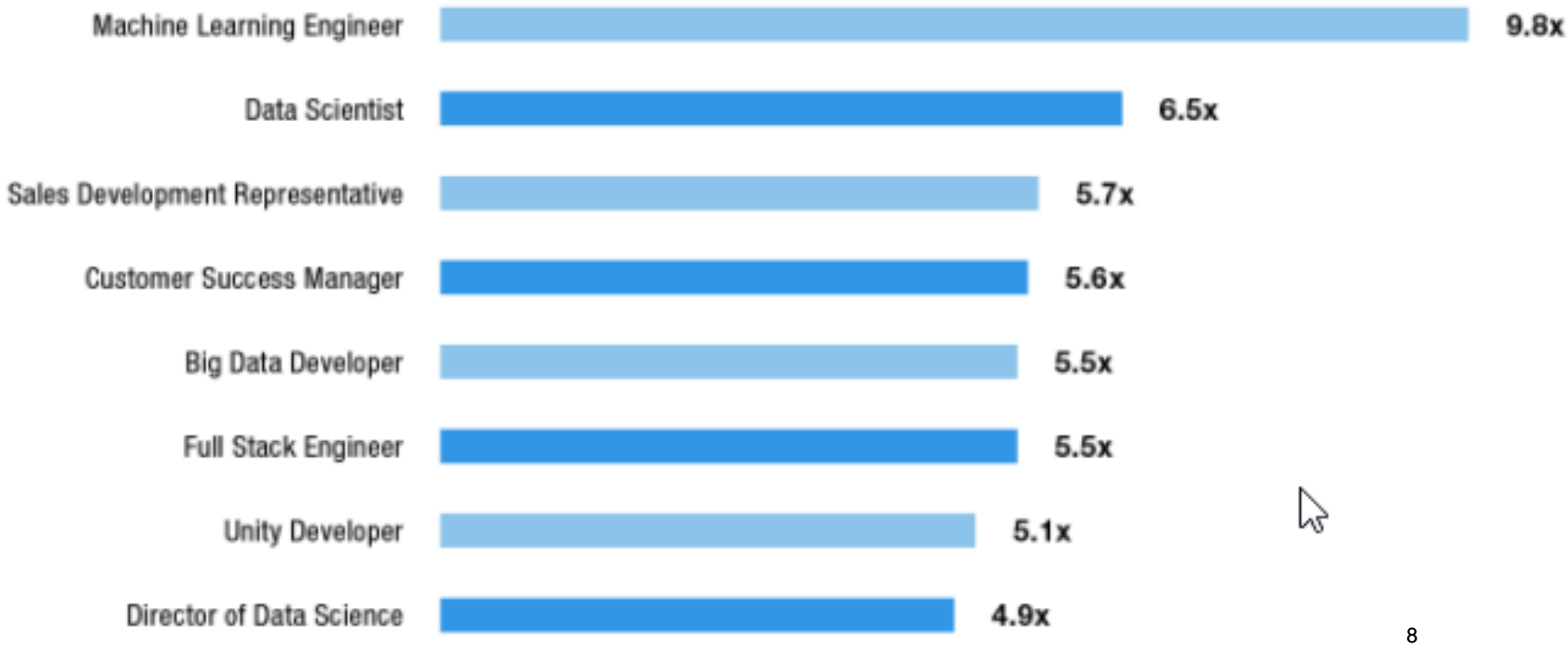

FEATURING: MACHINE LEARNING ➤ DRIVERLESS CARS ➤ SUPERHUMANS
POPULAR SCIENCE
SPECIAL EDITION
THE NEW ARTIFICIAL INTELLIGENCE
THE FUTURE OF NANOBOTS
DETECTING CANCER
KILLER ROBOTS?

The Economist
Inside China's Ministry of Truth
Trump in trouble
Who are the Niger Delta Avengers?
The flaws in executive pay
Motorcycles that fly
March of the machines
A SPECIAL REPORT ON ARTIFICIAL INTELLIGENCE

LinkedIn Economic Graph

Research

Top 20 Emerging Jobs



The Time Machine (2002) Full Library Scene

THE PUBLIC (2018)
THE LIBRARY IS THE LAST BASTION OF DEMCRACY

URI STUDENTS REQUESTED AI COURSES

NEWS, SCIENCE & RESEARCH

University struggles to keep up as AI industry booms

Recent changes have led to ballooning course enrollment, evolving sabbatical system

By **JONATHAN DOUGLAS**
SENIOR STAFF WRITER
Tuesday, November 7, 2017

LIBRARY AND AI? [JUST HIGHLIGHTS NO LITREVIEW]

When Robots Join the Library

18,393 views

75 3

Wall Street Journal

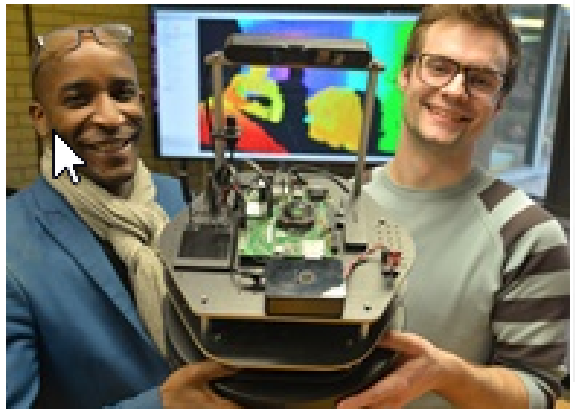
Published on Sep 29, 2014

Connecticut's Westport Library recently acquired two robots, Vincent and Nancy, that will be used to help teach coding and computer-programming skills. Photo: Danny Ghitis

Meet Hugh, the robot librarian

26 February 2016

Share



Students searching for library books at Aberystwyth University could soon be turning to a robot for assistance.

Hugh, the artificially intelligent robot librarian, is the brain-child of robotics students Pasi William Sachiti and Ariel Ladegaard.

Designed to take verbal book requests, Hugh will be able to tell where a

thursday, march 30, 2017

B305: AI, Robots, & Biometric Systems

3:45 p.m. - 4:30 p.m.

Qaddafi Sabree, Chairperson, Emerging Technologies Committee of the District of Columbia Library Association (DCLA)

Scott Harkless, Librarian Associate, Emerging Technologies Committee of District of Columbia Library Association (DCLA)

Angela Forest, Archival & Records Consultant, Emerging Technologies Committee of District of Columbia Library Association (DCLA)

Ernie Dixon, Web/Technologies Librarian, Paul Sawyier Public Library

Rob McCoy, IT Manager, Paul Sawyier Public Library

« Serendipity as prick

Carla Hayden's m

What happens to libraries and librarians when machines can read all the books?

Published March 16, 2017 Library stuff 11 Comments

Tags: AI, future of libraries, machine learning, technology

And one concern I think is very important to take seriously is the reality that without explicit counter-measures, machine learning & AI will re-inscribe & magnify existing systems of inequality and racism, sexism, homophobia and the like.

White People Are Upset That Amazon's Alexa Believes Black Lives Matter

Michael Harriot

Friday 3:31pm • Filed to: NEWS

256.7K 271 35

Charleston Conference

ISSUES IN BOOK AND SERIAL ACQUISITION

November 6 - 10, 2017

Area Maps and Floorplans | Shuttle Routes | Session Formats and Threads

Schedule ▾ Speakers Sponsors

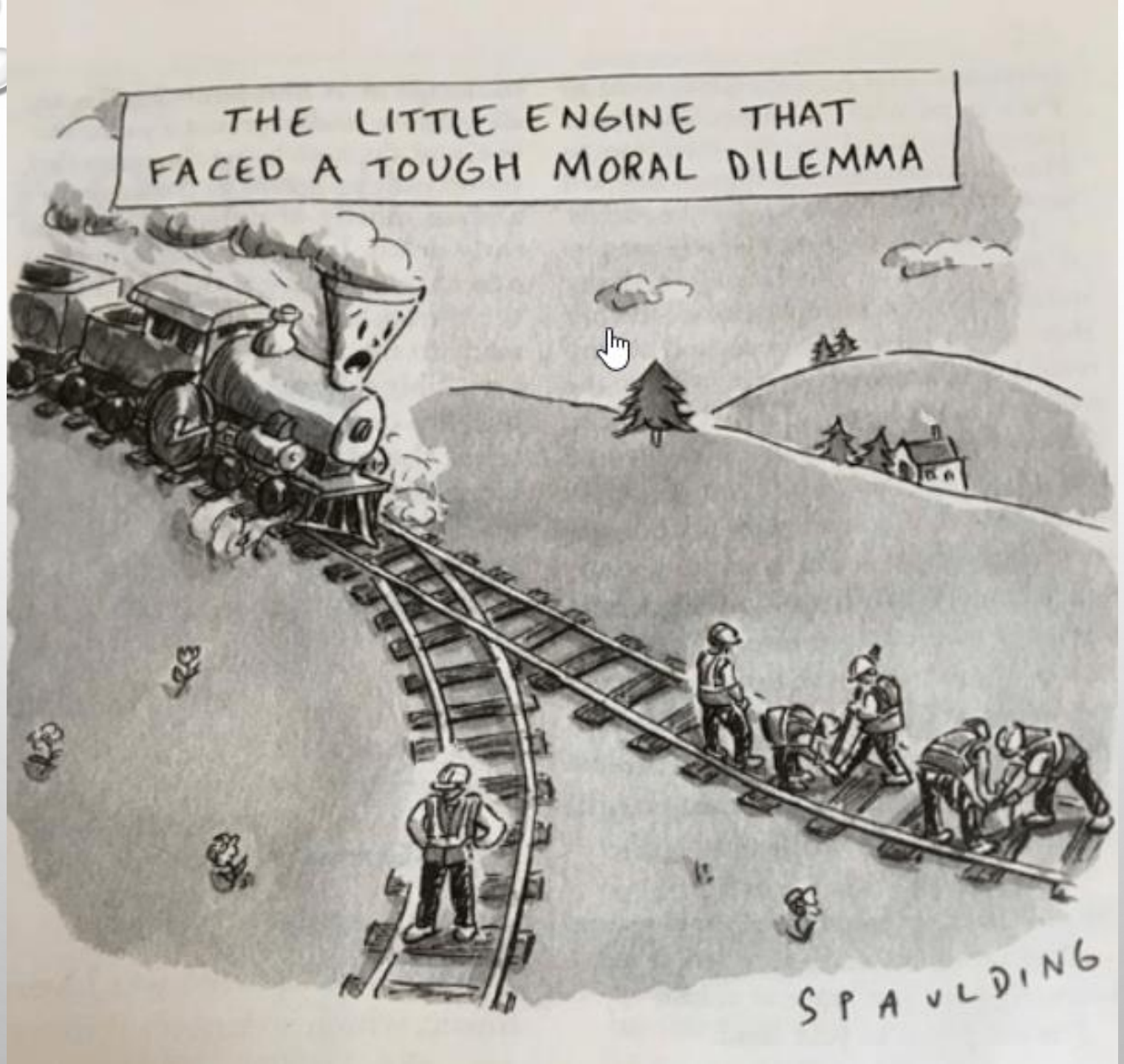
Thursday, November 9 • 9:20am - 10:00am

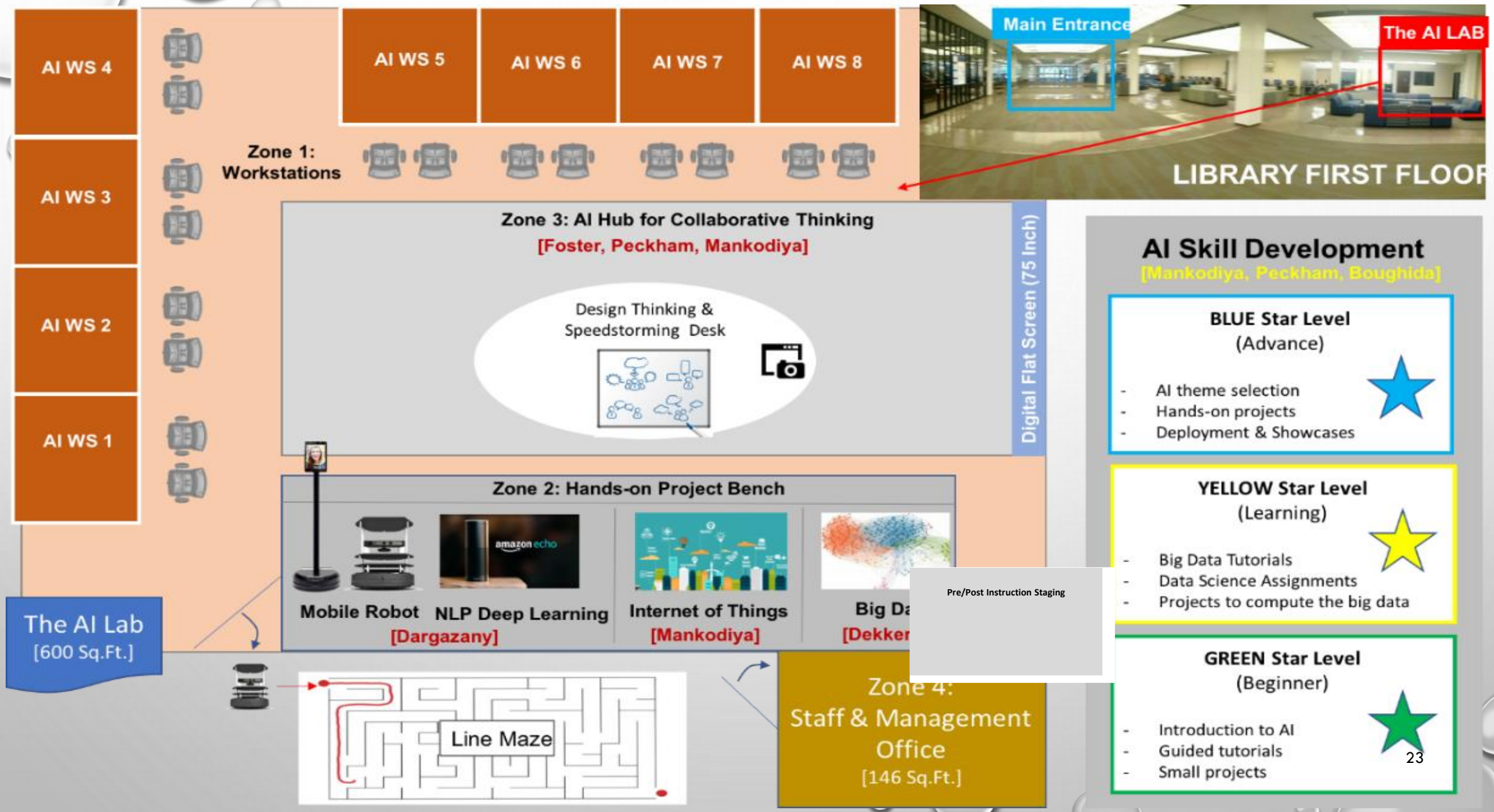
All the Robots are Coming! The Promise and the Peril of AI

NOW URI…..JUNE-DECEMBER 2017

AI.URI TEAM

- KUNAL MANKODIYA, DEPARTMENT OF ELECTRICAL, COMPUTER, AND BIOMEDICAL ENGINEERING
- CHERYL FOSTER, DEPARTMENT OF PHILOSOPHY
- JOAN PECKHAM, DEPARTMENT OF COMPUTER SCIENCE & STATISTICS/BIG DATA INITIATIVE AND DATA SCIENCE PROGRAMS
- HARRISON DEKKER, URI LIBRARIES
- ANGEL FERRIA, URI LIBRARIES
- KARIM BOUGHIDA, URI LIBRARIES


THE LITTLE ENGINE THAT
FACED A TOUGH MORAL DILEMMA
SPAULDING


AI WS 4
AI WS 3
AI WS 2
AI WS 1
AI WS 5
AI WS 6
AI WS 7
AI WS 8
Zone 1: Workstations
Main Entrance
The AI LAB
LIBRARY FIRST FLOOR
Zone 3: AI Hub for Collaborative Thinking
[Foster, Peckham, Mankodiya]
Design Thinking & Speedstorming Desk
Digital Flat Screen (75 Inch)
Zone 2: Hands-on Project Bench
Mobile Robot
[Dargazany]
NLP Deep Learning
Internet of Things
[Mankodiya]
Big Da
[Dekker
Pre/Post Instruction Staging
The AI Lab
[600 Sq.Ft.]
Line Maze
Zone 4: Staff & Management Office
[146 Sq.Ft.]
AI Skill Development
[Mankodiya, Peckham, Boughida]
BLUE Star Level
(Advance)
- AI theme selection
- Hands-on projects
- Deployment & Showcases
YELLOW Star Level
(Learning)
- Big Data Tutorials
- Data Science Assignments
- Projects to compute the big data
GREEN Star Level
(Beginner)
- Introduction to AI
- Guided tutorials
- Small projects

Item	Quantity
Lambda Quad DL/AI (High Power)	5
Lambda Quad DL/AI (Medium Power)	4
Laptop (High Power GPU/CPU)	5
HD Dual Monitor, Keyboard/Mouse	9
Amazon Echo	5
Google Home	5
Deep Learning Robot	8
MyEcho Robot	2
Clone Robot	2
Internet of Things Kit	5

COMPUTERS

Component	Specs – Lambda Quad DL/AI (Medium/High Power)
Processor	Intel TM Core i7-6850k (Medium/High Power)
GPUs	4x 11 GB NVIDIA GEFORCE GTX 1080 Ti - (Medium Power)
	4x 12 GB NVIDIA GEFORCE GTX Titan Xp - (High Power)
Memory and Storage	64 GB DDR4 1 TB SATA SSD + 2 TB HDD (Medium Power)
	128 GB DDR4 1 TB SATA SSD + 3x 2 TB SATA SSDs, RAID 5 (High Power)

SOME ROBOTS….

Autonomous.ai Clone Robot

Instruct Clone to move at a given speed, direction, and amount of time.

Read Clone's internal sensors including velocity, battery level, bumper, and IMU.

See and hear what Clone sees & hears.

Automatically return to the docking station and attach itself with base sensors when the robot needs charging.

MyEcho Robot - Zenbo

Moves independently

Recognizes faces, take photos and videos, make video calls, and provides remote home monitoring

Responds to naturally spoken requests and questions

Learn and adapts with proactive artificial intelligence

Express emotions with many different facial expressions

@KBOUGHIDA
BOUGHIDA@URI.EDU

QUESTIONS?

#AILAB

#CNI17F