

# Sept 5 FORUM



Connecting Medical Technology Professionals

In Collaboration With



## Artificial Intelligence (AI) in Healthcare: How AI applications will affect your life personally and professionally

### Wednesday

Sept 5, 2018

5:30 – 8:30 PM

MDG Boston Events  
are held at the

Fine Arts Center  
Regis College  
235 Wellesley St.  
Weston, MA

### Premier Sponsors



### MDG FORUMS

#### Oct 3

The Medical Device  
Communities Response  
to the Opioids Crisis -  
How to Improve the  
Social Impact

#### Oct 16 12th Annual

Transitioning Into and  
Within the Medical  
Device Industry

#### Oct 30

New Advances in  
Combination Products

#### Dec 3

Technologies for  
Monitoring and  
Improving Health

**Use of Artificial Intelligence  
in medical technology is a  
just beginning to impact  
our industry.**

**In the late 1990's, the  
internet began to change  
how we live our lives and,  
now, Artificial Intelligence  
is ready to do the same.**

### Program Description

We will present the impact of Artificial Intelligence  
in medical technology from four perspectives:

- Overall industry benefits driven by the need for outcome prediction
- Technological impacts from a broad range of applications and devices
- Patient care and outcome prediction from patient records
- Real-time risk analysis during laparoscopic surgery

Imagine while a surgeon is performing laparoscopic surgery, the images from the laparoscope are analyzed in real-time and can alert the surgeon to the level of risk of particular movements. This capability can improve outcomes globally since the training can vary significantly.

Imagine having a heart attack that leaves you in a coma. Should the healthcare team continue to engage in life support or not? How can the team predict revival from the coma within ethical boundaries?

Imagine enabling access to electronic health records to predict the effects of life style diseases on a population and individual basis.



This is the promise of Artificial Intelligence in the not-to-distant future.

Come to The MDGBoston Forum on September 5th to see how Artificial Intelligence will affect your life personally and professionally.

**We hope you can join us  
for the conversation.**

### Who Should Attend:

- Clinician who provide patient diagnosis and treatment
- Product developers who will incorporate current and future AI technology in new medical devices
- Senior management who want to keep their next product line on the leading edge of AI technology
- Investors looking for great returns on capital in an emerging market

**For more information, go to [mdgboston.org](http://mdgboston.org)**

## Presenters



### Dr. Daniel Hashimoto

*Surgical AI & Innovation Fellow  
Massachusetts General Hospital*

Daniel Hashimoto co-founded the MGH Surgical Artificial Intelligence and Innovation Laboratory. He collaborates with MIT CSAIL in the development of a computer vision system for real-time analysis of surgical video.

The goal is developing the technology to augment

surgical decision-making by providing clinicians with real-time, intraoperative probabilistic estimates of complications.

In addition to being a recent TEDx speaker, he has also published on using VR and AR to assist in the acquisition of surgical technical skills, curriculum development for surgical skills, and the utilization of wearable technology in the operating room.



### Chris Poulin

*Research Scientist and Partner  
Patterns and Predictions*

Chris Poulin has also been a machine learning, and data science subject matter expert with Microsoft (Director).

He served as Director of the Durkheim Project, a nonprofit collaboration with the U.S. VA and Facebook, Inc., sponsored by DARPA.

He was Co-Director of a machine learning group at Dartmouth College, which focused on large-scale machine learning (sponsored by IARPA).

Poulin has lectured on artificial intelligence and big data at the U.S. Naval War College. He is author of the book *Artificial Intelligence in Behavioral and Mental Health* (Elsevier, 2015).



### Les Servi, Ph.D.

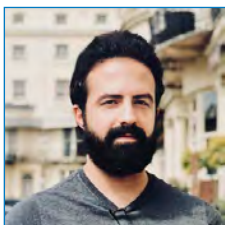
*Group Leader, MITRE Corporation*

Les Servi received his Ph.D. in engineering from Harvard University, worked at Bell Laboratories and GTE (now Verizon) Laboratories in telecommunication research.

He currently runs a Cyber Analytics and Health Analytics project. He served on a Defense Science Board (DSB) task force on Counter-insurgency (COINS) and Intelligence, Surveillance,

and Reconnaissance (ISR) Operation in 2010-11 and another DSB study on Constrained Military Operations in 2016.

Dr. Servi is well published in the area of Operations Research with five papers having more than 200 citations and 10 patents. He has also served as an editor of *Operations Research*, *Management Science*, *INFORMS Journal of Computing*.



### Mohammad Ghassemi

*Founder and President  
Ghamut Corporation*

The Ghamut Corporation is the 2017 MassChallenge winner.

Mohammad Ghassemi received his Ph.D. from the Electrical Engineering and Computer Science department at MIT and will join the department this fall.

In addition to receiving several academic distinctions including the Gates-Cambridge, and

Goldwater Fellowships, he has published over 25 peer-reviewed papers in venues including the *Proceedings of the Association for the Advancement of Artificial Intelligence* and *Science Translational Medicine*.

His projects include developing a large open-access intensive care database and an algorithm for real-time social analysis using a wearable. Mohammad recently spoke at a TEDx event in Boston.

## Co-Champions

### Jeff Karg

*Managing Director  
Boston Innovation*

If you have any comments regarding this forum, please send them to [MDGforums@MDGboston.org](mailto:MDGforums@MDGboston.org)

### MDG Forum Fees (Includes light dinner)

	Early Reg. Aug 29	Week Prior Aug 29 - Sept 5	At the Door Sept 5
MDG Members	\$30	\$35	\$45
Non-Members	\$45	\$55	\$65
Students	\$10	\$12	\$15
Student Non-Member w/ID	\$15	\$18	\$20

**Easy Online Registration** [www.mdgboston.org](http://www.mdgboston.org)  
(Pre-Register by August 29 & Save \$!)

