



The Institute of Electrical and Electronics Engineers  
(IEEE)



Galveston Bay Section Meeting

Organized by Communication Society and Joint Societies Chapters

**November 15<sup>th</sup>, 2018 (Thursday) Luncheon Meeting**

**TOPIC: “Robots in The Doctor’s Office and Beyond ”**

**SPEAKER:** Dr. Thomas L. Harman, Chair of Engineering Department  
University of Houston Clear Lake

**PRESENTATION:** 10,000 years ago, primitive doctors bored holes in the head to cure patients. Now the “brains” of a computer are saving lives and preventing disease. What is the future of robots in healthcare in general and in the doctor’s office in particular? This presentation will begin with a brief history of robots, their applications, specifications, the research work on different types of robot at various institutions and engineering contribution. The talk will conclude with the prediction for the future of robots in healthcare environment.

**SPEAKER:** Dr. Thomas L. Harman is the chair of the Engineering Department at the University of Houston Clear Lake (UHCL) and he has been an adjunct professor at Rice University. His research interests are control systems and applications of robotics and microprocessors. Several of his research papers with colleagues involved robot and laser applications to medicine.

In 2017, Dr. Harman initiated the Center for Robotic Software at UHCL. The center’s charge is to promote cooperation between academia and local industries for research and development in the field of robotics. He has been a judge and a safety advisor in the FIRST robotic contests in Houston.

Dr. Harman has authored or co-authored 20 books on subjects including microprocessors, MATLAB and Simulink applications, and the National Electrical Code. His latest book is “ROS Robotics by Example, 2<sup>nd</sup> edition with Carol Fairchild. He has been honored by the university with the selection of UHCL Distinguished Professor twice, in 2005 and in 2015.

He is a past chair of the section and currently chairs Life Member Affinity Group of IEEE Galveston Bay section.

**University of Houston Clear Lake, Delta Building, Room D136**

Interested non-IEEE engineers, technicians, scientists, IEEE Members and guests alike are welcome!

**11:30 PM – 1:00 PM - Program and Q&A**

**11:30 AM - Light Lunch with reservation -Complimentary ONLY with reservation.**

Please RSVP to Ms. KIM EDWARDS at [EdwardsK@uhcl.edu](mailto:EdwardsK@uhcl.edu), Before Noon Tuesday November 13<sup>th</sup>, 2018

**PARKING:** IF YOU DO NOT HAVE VALID UHCL PARKING PERMIT, PLEASE INDICATE WHILE REGISTERING OR CALL MS EDWARDS AT 281-283-3889 for parking information.

**Number of lunches is limited. Please reserve early**

Reservations for lunch or to attend this meeting should be made by email to:  
[EdwardsK@uhcl.edu](mailto:EdwardsK@uhcl.edu)