

**Department of Computer Science  
University of Houston**

**NSF REU SUMMER SERIES**

**WHEN: FRIDAY, JULY 13, 2012**

**WHERE: PGH 232**

**TIME: 10:30 AM**

**SPEAKER:** Brian J. Dunkin, M.D. F.A.C.S., The Methodist Hospital

Host: Dr. Ioannis Pavlidis

**TITLE:** How Do We Measure Proficiency in Surgery?

**ABSTRACT:** This presentation will explore the complexities of performing surgery and describe methods of measuring procedural proficiency using simulations, scorecards, and physiologic monitoring.

**BIO:** Dr. Dunkin is the Head of the Section of Endoscopic Surgery and Medical Director of the Methodist Institute for Technology, Innovation & Education (MITIE<sup>SM</sup>) at The Methodist Hospital in Houston, Texas. He did his surgical residency training at the George Washington University in Washington, DC and a fellowship in advanced laparoscopy and surgical endoscopy at the Cleveland Clinic in Ohio. He has been an Assistant Professor of Surgery at the University of Maryland and an Associate Professor at the University of Miami in Florida. He joined the staff at The Methodist Hospital in January of 2007.

Dr. Dunkin's clinical practice is focused on advanced laparoscopic surgery and flexible GI endoscopy and he is the co-director of the Methodist minimally invasive surgery fellowship program. Dr. Dunkin is also the Medical Director of MITIE – a world class comprehensive education and research institute focused on helping practicing health care professionals learn new procedural skills and adopt new medical technology. Dr. Dunkin's research interests are in the development of novel methods and devices for endoscopic surgery, as well as the use of leading-edge technology in the development of improved training programs for surgeons. He is published in the areas of flexible endoscopy, minimally invasive surgery, surgical education, and gastrointestinal physiology. He is a Board member of the Society of American Gastrointestinal and Endoscopic Surgeons, President elect of the Texas Association of Surgical Skills Laboratories and serves in leadership roles in the American College of Surgeons, the Surgical Society of the Alimentary Tract, and the American Society of Gastrointestinal Endoscopy. He is also a member of the editorial boards for Surgical Endoscopy and the Journal of Laparoendoscopic and Advanced Surgical Techniques and in 2010 was appointed a Professor of Clinical Surgery at the Weill Cornell Medical College in New York – the academic affiliate of Methodist.