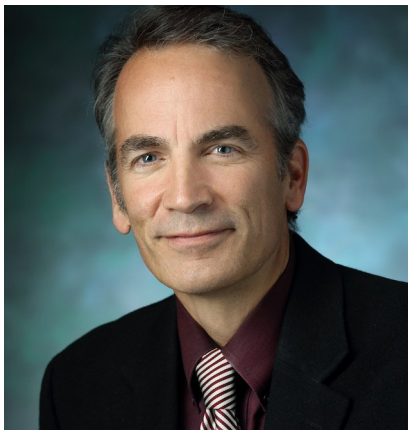
Bilkent EEE
Distinguished Seminar Series

Bilkent University
Department of Electrical and Electronics Engineering



New Applications of Cardiac CT

Prof. Elliot McVeigh

University of California, San Diego

Dec 14, 2026 - 17:30 - Online

Zoom: https://zoom.us/j/91655114909

Meeting ID: 916 5511 4909

New CT scanner design, in particular the ability to image the entire heart with 1x1x1 resolution in ~150ms gives us tremendous opportunities to diagnose and stage coronary heart disease and other cardiac maladies. This talk will discuss a few of those new applications.

Bio: Elliot McVeigh is a Professor at the University of California, San Diego. He received his B.Sc. degree in physics and his Ph.D. degree in medical biophysics from the University of Toronto, Canada, in 1984 and 1988, respectively. He joined the Department of Biomedical Engineering at Johns Hopkins University in 1988, where he served as Instructor, Assistant Professor, and Associate Professor until 1999. From 1999 to 2007, he was a Principal Investigator at the National Heart, Lung, and Blood Institute of the National Institutes of Health (NIH). He then returned to Johns Hopkins University as Professor and Chair of the Department of Biomedical Engineering, a position he held from 2007 to 2015, before moving to UC San Diego in 2015. His research over the past 40 years has focused on medical imaging, particularly cardiac MRI and CT. His laboratory pioneered MRI tagging methods for measuring local myocardial function, developed the CURE index for predicting patient response to cardiac resynchronization therapy, and performed the first real-time MRI-guided stem cell injections and prosthetic aortic valve implantations in the beating heart. His current work develops new scanning and image analysis techniques in MRI and CT for the individualized care of cardiovascular patients. He has trained more than 40 Ph.D. students and postdoctoral researchers. Dr. McVeigh is a Fellow of the International Society for Magnetic Resonance in Medicine (ISMRM) and of the American Institute for Medical and Biological Engineering (AIMBE), and a Senior Member of IEEE. His honors include the IEEE EMBS Career Technical Achievement Award (2018) and the NIH Fellows Award for Research Mentoring (2007).