

Title: Computed Tomography: The Journey from Medicine to National Security

Computed Tomography, a versatile technology best known for its applications in the medical community, has an important and ever-growing role in the industrial and security communities in helping to improve product quality as well as assurance. With radiation dose being less of a concern in a vast majority of cases, there exist many insightful approaches to Computed Tomography that are not necessarily feasible, or relevant, in medicine; with that, come many challenges such as big-data processing, algorithm optimization, and energy efficiency. This talk will present an introduction to Computed Tomography as well as its challenges relevant to industrial and national security applications followed by an overview of the future of Computed Tomography and its impact to industrial and national security applications.