

Biographical Sketch

Department of Electrical and Computer Engineering
Department of Bioengineering
Department of Neurological Surgery
Department of Computer Science
University of Pittsburgh



School Address

Department of Electrical and Computer Engineering
333 Benedum Hall
University of Pittsburgh
Pittsburgh, PA 15261

Contact Information

Tel: 412-624-5836
Fax: 412-624-8003
Email: accheng@ece.pitt.edu
www.engr.pitt.edu/electrical/faculty-staff/accheng/

Dr. Allen C. Cheng is an Assistant Professor in the Department of Electrical and Computer Engineering (ECE), Department of Bioengineering (BioE), Department of Neurological Surgery (Neurosurgery), Department of Computer Science (CS), Neural Engineering in the McGowan Institute for Regenerative Medicine at University of Pittsburgh, where he established and is currently directing the Advanced Computing Technology Laboratory (ACT Lab).

Dr. Cheng received his Ph.D. and M.S. in Computer Science and Engineering from the University of Michigan at Ann Arbor and his B.S. in Computer Engineering from the North Carolina State University. Prior to join the University of Pittsburgh, he was a faculty lecturer in the College of Engineering at the University of Michigan at Ann Arbor.

Dr. Cheng's research interests are at the interdisciplinary confluence of computer engineering, computer science, electrical engineering, neural engineering, biomedical engineering, and medicine. His current research is **Biomedical Computing**, which focuses on: (1) developing energy-efficient, high-performance, self-adaptive, reliable, secure, embedded and bio-implantable computing technology via algorithm-software-hardware co-design; (2) Integrate this cutting-edge computing technology into real-life biomedical applications of highest impact.

The research efforts of his ACT Lab involve both developing fundamental science and implementing practical engineering solutions in both system hardware and software to pioneer assistive biomedical devices.

Dr. Cheng is a member of several international scholar and honor societies including Eta Kappa Nu, Phi Eta Sigma, and Golden Key. He is also a member of IEEE (Computer Society, Engineering in Medicine and Biology Society, and Systems, Circuits and Systems Society Member, Man, and Cybernetics Society), ACM, and AAAS.