Ali Shakouri is a Professor of Electrical and Computer Engineering at Purdue University. He received his master’s and doctoral degrees from the California Institute of Technology in 1995 and his bachelor’s degree in engineering from Telecom ParisTech in France in 1990. From 1995-1998 he was an Assistant Research Engineer at the University of California, Santa Barbara. He then became a faculty member at the University of California, Santa Cruz in electrical engineering in 1998 and rose through the ranks to professor. He joined the faculty at Purdue University in October 2011.

Dr. Shakouri’s research focuses on nanoscale heat and current transport in semiconductor devices, high-resolution thermal imaging, micro refrigerators on a chip and waste-heat recovery. At the University of Santa Cruz, he directed the Thermonic Energy Conversion Center, a multi-university collaboration including Purdue that is working to improve direct thermal to electric energy conversion technologies. This project is funded by the Office of Naval Research and the Defense Sciences Office at the U.S. Defense Advanced Research Projects Agency (DARPA). Project researchers are exploring the capacity of nanostructured materials to channel the random jostling of heat energy into the orderly flow of electricity. The research has applications in advancing technology for electric-powered ships and other electric vehicles.

Dr. Shakouri received a Packard Fellowship in Science and Engineering in 1999 and a NSF Career Award in 2000. He as the author or co-author of 6 book chapters, 115 papers in reviewed journals and 117 papers in refereed proceedings. He has also presented numerous invited lectures nationally and internationally.