
Center for Integrated Circuits and Systems (CICS)

Prof. Hae-Seung Lee, Director

The Research Center for Integrated Circuits and Systems (CICS) is a form of an industrial consortium created to promote new research initiatives in circuits and systems design, as well as to promote tighter technical relation between MIT's research and relevant industry. Four faculty members, Hae-Seung Lee, Anantha Chandrakasan, Michael Perrott, and Charles G. Sodini participate in the Center for Integrated Circuits and Systems. We have been investigating a wide range of circuits and systems related to wireless communication, optical communication, microsensor/actuator systems, imagers, digital and analog signal processing circuits, dc-dc converters, and many other systems.

We strongly believe in the synergistic relation between the industry and academia, especially in practical research areas of the integrated circuits and systems. We are convinced that the Center for Integrated Circuits and Systems is the conduit for such synergy. The Center currently has twelve member companies. The Center includes all research projects that the three participating faculty members conduct regardless of the sources of funding. There are two different forms of technical interaction between the member companies and the Center. The broad interaction occurs through research reviews held twice a year open to member companies. These are technical reviews where technical representatives from member companies can critique the projects. In each full day review, we present as many projects as possible. The more intimate interaction happens at a more personal level with graduate students who are working on projects of member company's particular interest. The member company may invite them to give presentations at their site.

At biannual research reviews we have received valuable technical feedback as well as suggestions for future research. There has been close interaction between member companies and the Center personnel through

company visits, summer employments, and personal interactions. We believe such an interaction has given very positive results for both MIT and member companies. We are hoping to continue to expand the Center in the future.