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Young Scientist Award



Asst Prof Yeo Yee Chia

 Department of Electrical and Computer
Engineering
National University of Singapore

"For his research on nanoelectronics and semiconductor devices"

Assistant Professor Yeo is an expert in the field of nanoelectronics and semiconductor technology. His research work contributed to the speed enhancement of electronic devices, and more particularly to the realization of nanoscale transistors with superior performance.

His research team demonstrated Singapore's smallest transistor and leads Singapore's microelectronics research into the nanoelectronics era. His team recently reported transistors as small as 25 nanometers along with new techniques of improving performance such as speed and power consumption. His team was also the first in the world to incorporate a new material comprising silicon and carbon in transistors to tweak the inter-atomic distance and the speed at which charge carriers move, thereby enabling electronics to operate at significantly higher speeds. He also led a research team to invent and realize a new semiconductor device that could potentially lead to immense reduction in power consumption in electronics.

Assistant Professor Yeo is a co-author of more than 120 scientific articles in international journals and conferences. His achievements have gained international recognition: he won several prestigious awards, including the IEEE Paul Rappaport Award, and he has delivered 7 invited talks in international conferences. His scientific innovation contributed to the advancement of semiconductor technology through more than 80 inventions. He works closely with research institutes and semiconductor companies to discover new material and device technologies and to advance the frontiers of nanoelectronics.

For his research on nanoelectronics and semiconductor devices, Assistant Professor Yeo Yee Chia is awarded the Young Scientist Award 2006.

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