

Electronic Design Automation Innovator Alberto Sangiovanni-Vincentelli to Receive 2009 IEEE/RSE Wolfson James Clerk Maxwell Award

Founded Two Largest EDA Companies in the World

PISCATAWAY, N.J. – 22 June 2009 – Alberto Sangiovanni-Vincentelli, an academic and entrepreneur who took electronic design automation (EDA) from a craft to an indispensable engineering discipline, is being honored by IEEE with the 2009 IEEE/RSE Wolfson James Clerk Maxwell Award. IEEE is the world's largest technical professional association.

The award, funded by Wolfson Microelectronics plc, recognizes Sangiovanni-Vincentelli for pioneering innovation and leadership in electronic design automation that have enabled the design of modern electronics. The award will be presented on 25 June 2009 at the IEEE Honors Ceremony in Los Angeles, Calif. For the first time, the IEEE Honors Ceremony will be broadcast live on the Web through IEEE.tv (www.ieee.tv).

Electronic design automation software is used to design complex integrated circuits and verify and test their functionality, which is key to the creation of today's electronic devices. EDA has enabled integrated circuit design to move from a few hundred transistors in the 1970s to present-day integrated circuits that can contain billions of transistors. Sangiovanni-Vincentelli is a driving force behind EDA with groundbreaking scientific contributions, collaboration with circuit and systems companies to improve their design methods and by co-founding the two largest EDA companies in the world.

Sangiovanni-Vincentelli's contributions to EDA began in the 1970s with numerical analysis methods for large-scale ordinary differential equations. Those solutions along with logic synthesis techniques which he developed during the early 1980s are still in use today. During the 1990s, Sangiovanni-Vincentelli developed the foundations of "platform-based design," a comprehensive design and analysis methodology intended for large scale systems such as cars, airplanes and energy efficient buildings.

Sangiovanni-Vincentelli was instrumental in bringing EDA technology to market and ensuring its commercial success. In 1983 he co-founded SDA Systems (one of two companies that merged to form Cadence Design Systems) as the first "software-only" focused EDA company. Prior to SDA, the process in EDA was to use a few simple tools with large mainframes or specialized computers which were slow, expensive and prone to errors. Sangiovanni-Vincentelli and his colleague the late Richard Newton saw the need to automate this process with a complete suite of software from design to simulation to physical design, with a platform in which they could seamlessly work together, using general-purpose workstations. EDA has become a key enabler of the electronics industry and provides the technology needed to address the ever-growing complexity of chips as predicted by Moore's Law, while at the same time reducing the risk of

failure.

In 1986, Sangiovanni-Vincentelli went on to help found Synopsys. Today, Cadence and Synopsys are the two largest EDA companies in the world. He currently sits on the Board of Directors of Cadence where he is chair of the Technology Committee. He also serves on the Boards of other companies he has helped found, and advises leading integrated circuit and system companies such as Intel, General Motors, United Technologies Corporation, Pirelli and Telecom Italia.

An IEEE Fellow and member of the National Academy of Engineering, Sangiovanni-Vincentelli's honors include the 2001 Phil Kaufman Award (considered the most prestigious award in the EDA field), the VIP Award of the Italian National Research Council (1996-1999) and the 1994 Inventor Recognition Award from the Semiconductor Research Corporation. He received his doctorate in engineering from the Politecnico di Milano, Italy in 1971. Sangiovanni-Vincentelli is currently the Edgar L. and Harold H. Buttner Chair of Electrical Engineering at the University of California, Berkeley.

About IEEE

IEEE, the world's largest technical professional association, is commemorating its 125th anniversary in 2009 by Celebrating 125 Years of Engineering the Future around the globe. Through its more than 375,000 members in 160 countries, IEEE is a leading authority on a wide variety of areas ranging from aerospace systems, computers and telecommunications to biomedical engineering, electric power and consumer electronics. Dedicated to the advancement of technology, IEEE publishes 30 percent of the world's literature in the electrical and electronics engineering and computer science fields, and has developed nearly 900 active industry standards. The organization annually sponsors more than 900 conferences worldwide. Additional information about IEEE can be found at <http://www.ieee.org>.