NUS National University of Singapore | Department of Electrical & Computer Engineering
Faculty of Engineering

Massimo Alioto

Massimo Alioto (F'15) was born in Brescia, Italy, in 1972. He received the Laurea (MSc) degree in Electronics Engineering and the Ph.D. degree in Electrical Engineering from the University of Catan (Italy) in 1997 and 2001, respectively. He is an Associate Professor at the Department of Electrical a Computer Engineering, National University of Singapore where he leads the Green IC group and is Director of the Integrated Circuits and Embedded Systems area. Previously, he was Associate Profe at the Department of Information Engineering of the University of Siena. In 2013 he was also Visiting Scientist at Intel Labs – CRL (Oregon) to work on ultra-scalable microarchitectures. In 2011-2012, h was Visiting Professor at University of Michigan, Ann Arbor, investigating on active techniques for resiliency in near-threshold processors, error-aware VLSI design for wide energy scalability, self-powered circuits. In 2009-2011, he was Visiting Professor at BWRC – University of California, Berke investigating on next-generation ultra-low power circuits and wireless nodes. In the summer of 2007 was a Visiting Professor at EPFL - Lausanne (Switzerland).

He has authored or co-authored more than 200 publications on journals (75, mostly IEEE Transactic and conference proceedings. One of them is the second most downloaded TCAS-I paper in 2013. H co-author of three books, *Enabling the Internet of Things - from Circuits to Networks* (Springer, 2016 *Flip-Flop Design in Nanometer CMOS - from High Speed to Low Energy* (Springer, 2014), *Model an Design of Bipolar and MOS Current-Mode Logic: CML, ECL and SCL Digital Circuits* (Springer, 200 His primary research interests include ultra-low power VLSI circuits, self-powered and wireless node near-threshold circuits for green computing, error-aware and widely energy-quality scalable VLSI cir circuit techniques for emerging technologies.

In 2010-2012 he was the Chair of the "VLSI Systems and Applications" Technical Committee of the Circuits and Systems Society, for which he was also Distinguished Lecturer in 2009-2010. He is alsc member of the Board of Governors of the IEEE Circuits and Systems Society (2015-2017). In the las five years, he has given 50+ invited talks in top universities and leading semiconductor companies. currently serves as Associate Editor in Chief of the *IEEE Transactions on VLSI Systems*, and servec Guest Editor of various journal special issues (including the issue on "Ultra-Low Voltage Circuits anc Systems for Green Computing" published on Dec. 2012 on *IEEE Transactions on Circuits and Syste part II*). He also serves or has served as Associate Editor of a number of journals (*IEEE Transaction VLSI Systems, ACM Transactions on Design Automation of Electronic Systems, IEEE Transactions CAS - part I, Microelectronics Journal, Integration – The VLSI journal, Journal of Circuits, Systems, Computers, Journal of Low Power Electronics, Journal of Low Power Electronics and Applications*). serves or has served as panelist for several funding agencies and research programs in the US and Europe. He was Technical Program Chair (e.g., *SOCC, ICECS, VARI, NEWCAS, ICM*) and Track Cl in numerous conferences (e.g., *ICCD, ISCAS, ICECS, VLSI-SoC, APCCAS, ICM*). Prof. Alioto is an IEEE Fellow.

Go to my homepage (http://www.green-ic.o

Department of Electrical and Computer Engineering

Block E4, Level 5, Room 42
4 Engineering Drive 3
Singapore 117583
National University of Singapore
+65 6516 2109
askECE@nus.edu.sg (mailto:askECE@nus.edu.sg)

Academic Calendar (http://www.nus.edu.sg/registrar/calendar.html)

Education at NUS (http://www.nus.edu.sg/registrar/edu.html)

Enhancement programmes (/drupal/?q=node/18)

Undergraduate brochures (/drupal/?q=node/2#print)

Career Opportunities (/drupal/?q=node/228)

Community

Students (/drupal/?q=node/85#student)

Staff (/drupal/?q=node/85#staff)

Alumni (/drupal/?q=node/85#alumni)

(http://www.facebook.com/nus.singapore)

(http://twitter.com/NUSingapore)

(http://www.youtube.com/nuscast)