

VETENSKAPLIGA PUBLIKATIONER/SCIENTIFIC PUBLICATIONS 2011

Elektroniska komponenter/Electronic Devices

Journals and International Conferences

T. Sundström, C. Svensson, and A. Alvandpour, "A 2.4 GS/s, Single-Channel, 31.3 dB SNDR at Nyquist, 8-bit Pipeline ADC in 65nm CMOS," in *Journal of Solid State Circuits*, vol. 46, issue 7, pp. 1575-1584, July 2011.

J. Fritzin, Y. Jung, P.N. Landin, P. Händel, M. Enqvist, and A. Alvandpour, "Phase Predistortion of a Class-D Outphasing RF Amplifier in 90nm CMOS," *IEEE Transactions on Circuits and Systems-II: Express Briefs*, vol. 58, no. 10, pp. 642-646, October 2011.

N. Ahsan, C. Svensson, R. Ramzan, J. Dabrowski, and C. Samuelsson, "1.1 V 6.2 mW, wideband RF Front-end for 0 dBm Blocker Tolerant Receivers in 90 nm CMOS," in *Analog Integrated Circuits and Signal Processing*, June 2011.

R. Ramzan, J. Fritzin, J. Dabrowski, and C. Svensson, "Wideband Low Reflection Transmission Line for Bare Chip on Multilayer PCB," in *ETRI Journal*, vol. 33, no. 3, pp. 335-343, June 2011.

M. Gustavsson, F. Amin, A. Björklid, A. Ehliar, C. Xu, and C. Svensson, "A High-Rate Energy-Resolving Photon-Counting ASIC for Spectral Computed Tomography," in *IEEE Trans. of Nuclear Science*, December 2011.

J. Fritzin, C. Svensson, and A. Alvandpour, "Design and Analysis of a Class-D Stage with Harmonic Suppression," accepted for publication in the *IEEE Transactions on Circuits and Systems-I: Regular Papers*, 2011.

T. Johansson, N. Solati, and J. Fritzin, "A High-Linearity SiGe RF Power Amplifier for 3G and 4G Small Basestations," accepted for publication in the *International Journal of Electronics*, 2011.

J. Fritzin, C. Svensson, and A. Alvandpour, "A +32dBm 1.85GHz Class-D Outphasing RF PA in 130nm CMOS for WCDMA/LTE," in *IEEE European Solid-State Circuits Conference (ESSCIRC)*, pp. 127-130, September 2011.

D. Zhang, A. Bhide, and A. Alvandpour, "A 53-nW 9.12-ENOB 1-kS/s SAR ADC in 0.13- μ m CMOS for Medical Implant Devices," in *IEEE European Solid-State Circuits Conference (ESSCIRC)*, pp. 467-470, September 2011.

B. Mesgarzadeh, I. Esmail Zadeh, and A. Alvandpour, "A Multi-Segment Clocking Scheme to Reduce On-Chip EMI," in *proc. IEEE International SoC Conference (SoCC)*, pp. 251-255, September 2011.

S. Ahmad, J. Dabrowski, "On-Chip Spectral Test for High-Speed ADCs by $\Sigma\Delta$ Technique," in *European Conference on Circuit Theory and Design (ECCTD)*, pp. 661 - 664, September 2011.

Q-T. Duong and J. Dabrowski, "Low Noise Transconductance Amplifier Design for Continuous-Time Delta Sigma Wideband Frontend," in European Conference on Circuit Theory and Design (ECCTD), pp. 825 - 828, 2011.

A. Fazli Yeknami, M. Savadi Osgooei, and A. Alvandpour, "A Programmable-Bandwidth Amplifier for Ultra-Low-Power Switched-Capacitor Application," in IEEE European Conference on Circuit Theory and Design (ECCTD), pp. 761-764, August 2011.

J. Fritzin, C. Svensson, and A. Alvandpour, "A Wideband Fully Integrated +30dBm Class-D Outphasing RF PA in 65nm CMOS," in IEEE International Symposium on Integrated Circuits (ISIC), December 2011.

F. Qazi, Q-T Duong, and J. Dabrowski, "Wideband RF Frontend Design for Flexible Radio Receiver," in International Symposium on Integrated Circuits (ISIC), December 2011.

E. Nilsson and C. Svensson, "Envelope detector sensitivity and blocking characteristics," in European Conference on Circuit Theory and Design (ECCTD), pp. 802-805, August 2011.

C. Xu, M. Danielsson, S. Karlsson, C. Svensson, and H. Bornefalk, "Performance Characterization of a Silicon Strip Detector for Spectral Computed Tomography Utilizing a Laser Testing System," in Proc. SPIE, pp. 79610S-79610S-10, 2011.

D. Zhang, C. Svensson, and A. Alvandpour, "Power Consumption Bounds for SAR ADCs," in IEEE European Conference on Circuit Theory and Design (ECCTD), pp. 556-559, August 2011.

National Conferences

T. Sundström, C. Svensson, and A. Alvandpour, "A Power Efficient 1GS/s Single Channel Pipeline ADC in 65nm CMOS Utilizing Analog Gain Trimming," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011. (Best Student Paper Award)

Q-T. Duong and J. Dabrowski, "Design of Low Noise Transconductance Amplifier for Current-Mode Wideband RF Frontend," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011.

J. Fritzin, C. Svensson, and A. Alvandpour, "A Fully Integrated High Power CMOS Power Amplifier," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011.

E. Nilsson and C. Svensson, "Envelope Detector for Wake-Up Radio," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011.

F. Qazi and J. Dabrowski, "Design Study on Current-Mode Mixer for Wideband RF Receiver," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011.

C. Svensson, "A 10Gb/s Radio Link Prototype," invited paper, in Radio Frequency Measurement Technology Conference (RFMTC), Gävle, 2011.

D. Svärd, C. Jansson, and A. Alvandpour, "A Readout Circuit for an Uncooled IR Camera with Mismatch and Self Heating Compensation," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011.

D. Zhang, C. Svensson, and A. Alvandpour, "Power Analysis of Charge-Redistribution SAR ADCs," in Swedish System-on-Chip Conference (SSOCC), Varberg, 2011.

Book Chapter

J. Dabrowski, "A/D and D/A data conversion for wireless communications transceivers," in Digital Front-End in Wireless Communications and Broadcasting, Fa-Long Luo (Ed.), pp.380-412, Cambridge University Press, 2011.

Dissertations – Compilations

T. Sundström, "Design of High-Speed Analog-to-Digital Converters using Low-Accuracy Components," Linköping Studies in Science and Technology. Dissertations, ISBN: 978-91-7393-203-5, Linköping, November 2011.

J. Fritzin, "CMOS RF Power Amplifiers for Wireless Communications," Linköping Studies in Science and Technology. Dissertations, ISBN: 978-91-7393-059-8, Linköping, November 2011.

Other

T. Johansson, "Behovet av mobil beräkningskapacitet ökar snabbare än teknikutvecklingen," in Elektronik i Norden, 6/2011.

T. Johansson, "11th Swedish System-on-Chip Conference Sponsored by SSCS-Sweden in May," in IEEE Solid-State Circuits Magazine, No. 4, p. 58, 2011.