

## Un-Ku Moon

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**Education**    *University of Illinois*    *Urbana-Champaign, IL*  
Doctor of Philosophy in Electrical Engineering    1994  
*Cornell University*    *Ithaca, NY*  
Master of Engineering in Electrical Engineering    1989  
*University of Washington*    *Seattle, WA*  
Bachelor of Science in Electrical Engineering    1987

**Experience**    *Oregon State University*    *Corvallis, OR*  
1998 - present  
*Bell Labs, Lucent Technologies*    *Allentown, PA*  
1994 - 1998  
*AT&T Bell Laboratories*    *Reading, PA*  
1988 - 1989

**Service**    Program Chair/Vice-Chair, *IEEE Int. Solid-State Circuits Conf.*, 2020/2019  
Executive Committee, *IEEE VLSI Symp.*, 2013-2019  
Data Converters Subcommittee Chair, *IEEE Int. Solid-State Circuits Conf.*, 2015-2018  
Editor-in-Chief, *IEEE J. Solid-State Circuits*, 2010-2013  
Editor-in-Chief, *IEEE Trans. Circuits Syst. II*, 2008  
Technical Program Committee, *IEEE Int. Solid-State Circuits Conf.*, 2008-2013  
Technical Program Committee, *IEEE VLSI Circuits Symp.*, 2007-2011  
Technical Program Committee, *IEEE Custom Int. Circuits Conf.*, 2002-2007  
Associate Editor, *IEEE J. Solid-State Circuits*, 2005-2007  
Associate Editor, *IEEE Trans. Circuits Syst. II*, 2003-2004  
SSCS (AdCom) Representative to CASS (BoG), 2006-2008

**Publication**    <http://eecs.oregonstate.edu/~moon/research/publications.html>

A. ElShater, P.K. Venkatachala, C.Y. Lee, J. Muhlestein, S. Leuenberger, K. Sobue, K. Hamashita, and U. Moon, "A 10mW 16b 15MS/s two-step SAR ADC with 95dB DR using dual-deadzone ring-amplifier," *IEEE J. Solid-State Circuits*, pp. 3410-3420, Dec. 2019.

H. Sun, K. Sobue, K. Hamashita, and U. Moon, "An oversampling stochastic ADC using VCO-based quantizers," *IEEE Trans. Circuits Syst. I*, pp. 4037-4050, Dec. 2018.

A. Waters, J. Muhlestein, and U. Moon, "Analysis of metastability errors in conventional, LSB-first, and asynchronous SAR ADCs," *IEEE Trans. Circuits Syst. I*, pp. 1898-1909, Nov. 2016.

S. Weaver, B. Hershberg, and U. Moon, "Digitally synthesized stochastic flash ADC using only standard digital cells," *IEEE Trans. Circuits Syst. I*, pp. 84-91, Jan. 2014.

B. Hershberg, S. Weaver, K. Sobue, S. Takeuchi, K. Hamashita, and U. Moon, "Ring amplifiers for switched capacitor circuits," *IEEE J. Solid-State Circuits*, pp. 2928-2942, Dec. 2012.

J. Guerber, H. Venkatram, M. Gande, A. Waters, and U. Moon, "A 10-b ternary SAR ADC with quantization time information utilization," *IEEE J. Solid-State Circuits*, pp. 2604-2613, Nov. 2012.

N. Maghari and U. Moon, "A third-order delta-sigma modulator using noise-shaped bi-directional single-slop quantizer," *IEEE J. Solid-State Circuits*, pp. 2882-2891, Dec. 2011.

B.R. Gregoire and U. Moon, "An over-60dB true rail-to-rail performance using correlated level shifting and an opamp with only 30dB loop gain," *IEEE J. Solid-State Circuits*, pp. 2620-2630, Dec. 2008.

**Personal**    I am a naturalized U.S. citizen, born in Korea. I enjoy team sports, and actively participate in singing groups and Christian organizations. I place a high regard on the pursuit of a good moral standard, as my focus and goal in life originates from and revolves around the Christian faith.