

## ○ Profile

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### Prof. Seung-Tak Ryu 류승탁 교수

Analog, Mixed-Signal Circuit Design

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주요 연구

교 육

경 력

학술 활동



#### QUICK



LECTURES



GALLERY



NEWS



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PROFESSOR

FOCUSED  
CONFERENCES

### 1. Major Research Area

#### ■ Mixed-Signal Circuit Design

- Analog-to-Digital / Digital-to-Analog Converter
- Phase-Locked Loop
- Switching noise immune designs

#### ■ Analog Circuit Design

- Filter, VGA, Display driver IC
- Other analog IPs

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### 2. Education

- Mar. 1999- Aug. 2004 Ph. D., Electrical Engineering, KAIST  
Supervisor: Prof. Gyu-Hyeong Cho,  
Co-advisor: Prof. Bang-Sup Song (UCSD)
- Mar. 1997 - Feb. 1999 M.S., Electrical Engineering, KAIST  
Supervisor: Prof. Gyu-Hyeong Cho
- Mar. 1993 - Feb. 1997 B.S., Electronics Engineering, Kyungpook National University

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### 3. Professional Experiences

- Feb. 2012 - Present KAIST  
Associate Professor
- Mar. 2009 - Feb. 2012 KAIST  
Assistant Professor
- Mar. 2007 - Feb. 2009 Information and Communications University  
Assistant Professor
- Jul. 2004 - Mar. 2007 Samsung Electronics Co. LTD. (System LSI Division)  
Senior Engineer
- Jul. 2001 - Jan. 2003 Dept. of Electrical and Computer Engineering  
University of California, San Diego, CA.  
Visiting Researcher

#### 4. Lectures and Seminars

##### ▪ Courses at KAIST

Undergraduate: Digital logic design, Circuit theory, Linear algebra, Electronic Circuits Lab.

Graduate: Mixed-signal circuit design, Electronics Lab.

##### ▪ Seminars

ADC fundamentals and high speed ADCs (ETRI, 2009. 11. 10)

A/D Converters : Fundamental and design trends (Samsung Electronics, 2009. 06. 30)

Low power ADC design trends (ETRI, 2007. 12. 14)

ADCs: Basic principles and advanced designs (RERC, 2007. 08. 31)

Introduction to opamp design (IREC, 2007. 06. 15)

##### ▪ Short Courses

전자회로 개론 (IT Patent Examiners Education Center, 2008. 07. 09, 2009. 04. 07)

A/D Converter 설계이론 및 최근 동향 (ICU, Global E-Learning Center, 2009. 02. 02)

ADC 설계 기초이론 및 실습 (RERC 2009, 2009. 01. 19 ~ 21)

Data converters (ITSoC Academy, 2008. 08. 11 ~ 22)

#### 5. Awards

- Best Teaching Award 2007, ICU.
- Best Teaching Award 2012, KAIST.

#### 6. Membership and Academic activity

- Member of IEEE
- 한국반도체학술대회 아날로그분과 위원
- Member of IEEEK
- IEEE A-SSCC TPC member
- Triangle Symposium on Advanced ICT TPC member
- IEEE RFIT TPC member