Tutorial

2월 15일 13:00~14:00 (Convention Hall A, B)

한 보 형 교수

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연사약력

• Associate Professor, Dept. of Computer Science and Engineering, POSTECH, 2014-Present
• Assistant Professor, Dept. of Computer Science and Engineering, POSTECH, 2010-2014
• Ph.D. in Computer Science, Univ. of Maryland at College Park, 2005

강연제목

Deep Learning for Visual Question Answering

강연초록

Visual Question Answering (VQA) is a task automatically answering the questions about an input image based on holistic scene understanding. Since this problem is completely different from standard recognition problems, which typically focus on single tasks and require image understanding for flat classification, we face a lot of practical challenges to solve VQA.

Tutorial

2월 15일 14:00~15:00 (Convention Hall A, B)

Hajime Nagahara Professor

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연사약력

He is an associate professor in faculty of information science and electrical engineering at Kyushu University. He received the PhD degree in system engineering from Osaka University in 2001. He was a research associate of the Japan Society for the Promotion of Science (2001- 2003). He was an assistant professor at the Graduate School of Engineering Science, Osaka University, Japan(2003-2010). He was a visiting associate professor at CREA University of Picardie Jules Verns, France, in 2005. He was a visiting researcher at Columbia University in 2007-2008. Computational photography, computer vision are his research areas. He received an ACM VRST2003 Honorable Mention Award in 2003 and IPSJ Nagao Special Researcher Award in 2012.

강연제목

Introduction to Computational Photography

강연초록

A digital camera industry has been developed in a decade and has a lot of applications equipped with PC and mobile phone etc. However, optics and basic principle of image projection have not changed in latest digital camera. Computational photography is a new research area that combines imaging optics and processing for the digital imaging. The combination of the hardware and software give us more flexibility for solving the problems in computer vision and image processing and drastic improvements. In this tutorial, I introduce light field imaging and coded imaging in computational photography. Light field imaging captures rich 4D light field while regular camera captures only 2D sub-dimension of the image. We can generate a digital refocus image, free view images from the light field. We can also use the light field for computer vision problems; depth estimation, object recognition and segmentation etc. Coded imaging captures more informative image than regular image. We can easy to recover blur, scene depth and light field from the coded image. I will also discuss about the future direction of light field.

Tutorial

2월 15일 15:00~16:00 (Convention Hall A, B)

석 현 정 교수

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- 2006년 : 독일 만하임(Mannheim) 대학교 심리학과 박사
- 2000년~2005년 : LG 인터넷 등 실무디자인 활동
- 2000년 : KAIST 산업디자인학과 석사
- 1998년 : KAIST 산업디자인학과 학사

강연제목

색채를 이용한 감성 이미징

강연초록

이미지를 구성하는 색을 적절히 찾아서 이미지와 잘 배색하면 누구나 쉽고 빨리 멋진 레이아웃 디자인을 만들어 낼 수 있다. 채색된 면(surface)은 이미지나 텍스트와는 달리 색은 은근한 방법으로 우리의 감성을 사로잡는다. 그러면서도 함께 배치된 이미지의 매력을 증폭시키거나 텍스트의 문맥에 힘을 싣는 훌륭한 조력자이기도 하다. 색을 잘 쓰는 레서피를 공유하고 이미징 기술과의 접목을 통한 시너지를 탐색해보고자 한다.