

# PARTICIPATING PROFESSORS AT NUI/NUX PLATFORM RESEARCH CENTER (ITRC)

## Director

Prof. Kyungeun Cho, Dongguk University

## Research Subdivision 1

Multimodal · Immersive · Interaction NUI · Element ·  
Technology · Research

Prof. Chee Sun Won at Dongguk University (1<sup>st</sup> Subdivision Manager)  
Prof. Kang Ryoung Park at Dongguk University  
Prof. Changhwan Yi at Dongguk University  
Prof. Eui Chul Lee at Sangmyung University  
Prof. Yunsick Sung at Keimyung University

## Research Subdivision 2

Immersive Interaction · NUI Middleware · Framework Technology ·  
Research

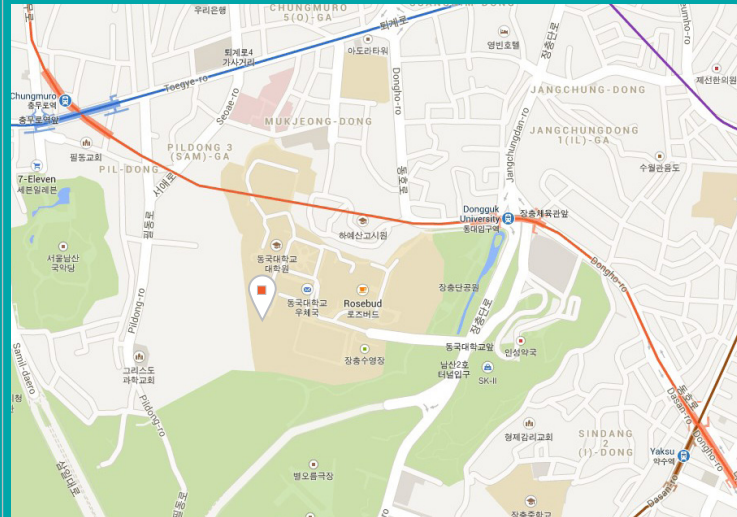
Prof. Kyungeun Cho at Dongguk University (2<sup>nd</sup> Subdivision Manager)  
Prof. Young-sik Jeong at Dongguk University  
Prof. Seunghyun Yoon at Dongguk University  
Prof. Jonghyuk Park at Dongguk University  
Prof. Jong-Hyuk Park at Seoul National University of Science and Technology  
Prof. Dongyoo Shin at Sejong University

## Research Subdivision 3

Invoked-reality · Application Service · Research Based on ·  
immersive · Interaction NUI · Technology

Prof. Kyhyun Um at Dongguk University (3<sup>rd</sup> Subdivision Manager)  
Prof. Seungwon Jung at Dongguk University  
Prof. Byeongwon Lee at Dongguk University  
Prof. Hochong Park at Kwangwoon University  
Prof. Dongil Shin at Sejong University

# MAP



## Dongguk University New Engineering Building

Room 4142, 30, Pildong-ro 1-gil, Jung-gu, Seoul,  
100-715, Rep. of Korea

<http://www.nuixitrc.dongguk.edu/workshop2015.html>

# I<sup>2</sup>N<sup>2</sup> 2015

The 2015 ITRC International Workshop on  
Immersive and Interactive NUI/NUX Platform (I<sup>2</sup>N<sup>2</sup>)  
Seoul, Korea, April 24, 2015

<http://www.nuixitrc.dongguk.edu/workshop2015.html>

## Organized by

NUI/NUX Platform Information Technology Research Center(ITRC)  
Research team for training top-level human resources of  
Interactive Smart Contents(BK21 Plus)  
Department of Multimedia Engineering, Dongguk University  
LINC : Leaders in INdustry-university Cooperation



# INVITATION

Dear Sir/ Madam,


I am cordially pleased to invite you to attend our ITRC 2015 International Workshop on Immersive and Interactive NUI/NUX Platform (I<sup>2</sup>N<sup>2</sup>) to be held at Dongguk University, Seoul, Rep. of Korea, on 24st April 2015. NUI(Natural User Interface) and NUX(Natural User eXperience) Technology are becoming more influential in our life style, and NUI/NUX are at the heart of many next-generation game, smart services, media services, medical, engineering, and industrial applications.

As the world leaders of NUI/NUX research and development, the 2015 ITRC International Workshop on Immersive and Interactive NUI/NUX Platform (I<sup>2</sup>N<sup>2</sup>) in Korea provides you a good opportunity to share and discuss your latest work, which will excite and broaden our common interests and individual experiences as well.

I thank your precious time sharing and kind concerns, and I am looking forward to your active participation in the 2015 ITRC International Workshop.

Yours sincerely,

Director of NUI/NUX Platform Research Center(ITRC)  
Kyungeun Cho, Dongguk University, Rep. of Korea

 April 24, 2015

# PROGRAM

Time	Speaker	Title	Institute	Place
12:30 – 13:00	Registration			
13:00 – 13:05	Prof. Kyungeun Cho	Welcome Address	Dongguk University (Korea)	New Engineering Building (Room 4142)
13:05 – 13:45	Prof. Elisabeth Andre	Exploring the Potential of Social Signal Processing for Human-Machine Interaction: Synergies and Challenges	University of Augsburg (Germany)	New Engineering Building (Room 4142)
13:45 – 14:25	Prof. Sumi Helal	Understanding User Behavior and Interactions in Future Smart Spaces: A Context-Driven Simulation Approach	University of Florida (USA)	New Engineering Building (Room 4142)
14:25 – 15:05	Prof. Simon Fong	Dynamic Human Activities Recognition By Improvised Data Stream Mining Methods	University of Macau (China)	New Engineering Building (Room 4142)
15:05 – 15:15	Coffee Break			
15:15 – 15:55	Prof. Jonghwa Kim	Automatic Stress Recognition : sensor based approaches and results	University of Augsburg (Germany)	New Engineering Building (Room 4142)
15:55 – 16:25	Dr. Wei Song	Real-time Single Camera Natural User Interface Engine	North China University of Technology (NCUT) (China)	New Engineering Building (Room 4142)
16:25 – 16:30	Closing Remarks			
16:30 – 17:30	ITRC involved All Professors	NUI/NUX Platform Research Center Tour & Discussion	Dongguk University (Korea)	New Engineering Building (Room 2124)

# SPEAKERS



**Elisabeth Andre** is a Full professor of Computer Science at Augsburg University, and Chair of the Research Unit Human-Centered Multimedia. She is Associate Editor of eight renowned journals including IEEE Transactions on Affective Computing, ACM Transactions on Interactive Intelligent Systems, and Member of the Editorial Board of the Journal of Autonomous Agents and Multi-Agent Systems. She is currently serving as the chair of the ERC (European Research Council) panel for Systems and Communication Engineering. In 2010, Elisabeth Andre was elected a member of the prestigious German Academy of Sciences Leopoldina, the Academy of Europe and AcademiaNet. She is also an ECCAI Fellow (European Coordinating Committee for Artificial Intelligence).



**Dr. Abdelsalam (Sumi) Helal** is a Professor at the Computer and Information Science and Engineering Department (CISE) at the University of Florida (UF), USA, and a Finland Distinguished Professor (FiDiPro) at Aalto University and the EIT ICT Labs, Finland. He is co-founder and director of the Gator Tech Smart House. His current research focuses on Smart Spaces, Internet of Things (scalable cloud-sensor architectures, programmability and city-scale optimizations), and Assistive Technology (aging, affective and persuasive interactions, context-driven simulation, and assistive technology for the blind and hearing impaired). Dr. Helal is the Editor-in-Chief of IEEE Computer, the premier and flagship magazine of the IEEE Computer Society, has been the Editor of the magazine's column on Standards, Tools and Emerging Technologies. He also serves or has served on the editorial boards of numerous journals and IEEE transactions. Dr. Helal is a Fellow of the IEEE.



**Simon Fong** is now working as an Associate Professor at the Computer and Information Science Department of the University of Macau. Prior to joining the University of Macau, he worked as an Assistant Professor in the School of Computer Engineering, Nanyang Technological University, Singapore. Prior to his academic career, Simon took up various managerial and technical posts, such as systems engineer, IT consultant and e-commerce director in Melbourne, Hong Kong and Singapore. Some companies that he worked before include Hong Kong Telecom, Singapore Network Services, AES Pro-Data and United Oversea Bank, Singapore. Dr. Fong has published over 200 international conference and peer-reviewed journal papers, mostly in the area of E-Commerce technology, Business Intelligence and Data-mining.



**Jonghwa Kim** is a Privatdozent (associate professor) at the Faculty of Applied Computer Science, University Augsburg, Germany. He was born in Booyeo, South Korea, and studied Electronics Engineering (MSc.EE) at the Kyungwon University, Korea. He received his Ph.D. degree (Dr. phil.), supported by the Scholarship NaföG of the Berliner Senate, in Communication Engineering from the Technical University Berlin, Germany, in 2003. In 2002 he joined the Institute of Computer Science at the University Augsburg and was from 2004-2010 a Wiss. Assistent (C1, assistant professor). He received in 2010 his Habilitation degree (Dr. habil., Venia Legendi) in Computer Science from the University.



**Wei Song** is a full lecturer at the Department of Digital Media at the North China University of Technology (NCUT), Beijing, China, since July, 2013. He received his B. Eng. Degree in Software Engineering from Northeastern University, Shenyang, China, in 2005, and his M. Eng. and Dr. Eng. Degrees in Multimedia(Major of Computer Game Production) from Dongguk University, Seoul, Korea, in 2008 and 2013, respectively. Since September 2013, he has been the director of the interactive studio of NCUT. His current research interests are focused on the areas of mixed reality, NUI, interactive information visualization, image processing, computer graphics, pattern recognition, 3D reconstruction, mobile robot, network game, and other multimedia technologies.