

BigComp2016 - Schedule Overview

TIME	Track 1	Track 2	Track 3
Day1:	January 18 (Monday), 2016		
08:00 - 18:00	Registration		
08:30 - 09:30	Tutorial-1 (The Forum)	WS-2: WSTIE 2016 (Taipo Rooms I-II)	WS-3: Keynote Speech (Taipo Rooms III-IV)
09:30 - 10:30		WS-1: BigData4Healthcare (Taipo Rooms I-II)	WS-3: Exobrain (Taipo Rooms III-IV)
10:30 - 11:00 (CB)			
11:00 - 12:30			
12:30 - 14:00	Lunch (Bauhinia Room)		
14:00 - 15:00	Tutorial-2 (The Forum)	WS-1: Keynote Speech (Taipo Rooms I-II)	WS-3: Exobrain (Taipo Rooms III-IV)
15:00 - 16:00		WS-1: BigData4Healthcare (Taipo Rooms I-II)	
16:00 - 16:30 (CB)			
16:30 - 18:00			
18:00 - 18:30	Break		
18:30 - 20:00	Welcoming Reception (Bauhinia Room)		
Day2:	January 19 (Tuesday), 2016		
08:00 - 18:00	Registration		
08:30 - 10:10	Short Session-1 (oral) (The Forum)	Short Session-2 (oral) (Taipo Rooms I-II)	
10:10 - 10:40	Coffee Break		
10:40 - 11:00	Opening (The Forum)		
11:00 - 12:30	Keynote Speech-1 (The Forum)		
12:30 - 14:00	Lunch (Bauhinia Room)		
14:00 - 15:30	Poster Session-1 (The Forum)	Poster Session-2 (Taipo Rooms I-II)	Poster Session-3 (Taipo Rooms III-IV)
15:30 - 16:00	Coffee Break		
16:00 - 18:00	Regular Session-1 (oral) (The Forum)	Regular Session-2 (oral) (Taipo Rooms I-II)	Regular Session-3 (oral) (Taipo Rooms III-IV)
18:00 - 18:30	Break		
18:30 - 20:00	Banquet (Location to be announced)		
Day3:	January 20 (Wednesday), 2016		
08:00 - 18:00	Registration		
09:00 - 10:30	Keynote Speech-2 (The Forum)		
10:30 - 11:00	Coffee Break		
11:00 - 12:30	Regular Session-4 (oral) (The Forum)	Regular Session-5 (oral) (Taipo Rooms I-II)	Regular Session-6 (oral) (Taipo Rooms III-IV)
12:30 - 14:00	Lunch (Bauhinia Room)		
14:00 - 16:00	Regular Session-7 (oral) (The Forum)	Regular Session-8 (oral) (Taipo Rooms I-II)	Regular Session-9 (oral) (Taipo Rooms III-IV)
16:00 - 16:30	Coffee Break		
16:30 - 17:50	Panel Discussion (The Forum)		
17:50 - 18:00	Closing (The Forum)		

The Exobrain Workshop – Natural language question answering for human-machine knowledge communication (Exobrain 2016)

Workshop Organizers and Program Chairs

Sang-Kyu Park, ETRI, Korea

Hyunki Kim, ETRI, Korea

Chang-Eun Lee, ETRI, Korea

Ho-Jin Choi, KAIST, Korea

Program Committee

Chang-Ki Lee, Kangwon National University, Korea

Cheol-Young Ok, Ulsan University, Korea

Gahgene Gweon, KAIST, Korea

Geun-Sik Jo, Inha University, Korea

Hong-Gee Kim, Seoul National University, Korea

Hyuk-Cheol Kwon, Pusan National University, Korea

Il-Hong Suh, Hanyang University, Korea

In-Cheol Kim, Kyonggi University, Korea

Jae-Sung Lee, Chungbuk National University, Korea

Jeong Hur, ETRI, Korea

Ji-Ae Shin, Hongik University, Korea

Jongho Nang, Sogang University, Korea

Jongmoon Baik, KAIST, Korea

Joon-Ho Lim, ETRI, Korea

Jung-Jin Yang, The Catholic University of Korea, Korea

Key-Sun Choi, KAIST, Korea

Kyung-Il Lee, Saltlux, Korea

Mun-Yong Yi, KAIST, Korea
Myung-Gil Jang, ETRI, Korea
Se-Young Park, Kyungbook University, Korea
Soo-Jong Im, ETRI, Korea
Sung-Hyon Myaeng, KAIST, Korea
Young-Guk Ha, Konkuk University, Korea
Young-Tack Park, Soongsil University, Korea

Keynote Speech (08:30-09:30, January 18 (Mon), 2016)

Exobrain - Hyper Connected Knowledge and the Future of AI

Tony LEE, Saltlux Inc., Korea

CEO and President of Saltlux Inc.

Abstract: 'Artificial Intelligence' is one of the hottest keywords and re-emerging areas in the ICT industry, and becomes more crucial because we are living in a society which makes increasing use of big data and knowledge intensive technologies. Only a few years ago, nobody forecasted this new wave of AI and industrial demand for machine learning and reasoning powers. In the near future, there would be no doubt that we need to augment the capability of human brain to solve our future problems or optimize our businesses and life as well. In this presentation, the speaker introduces the concept of Exobrain including Deep QA, knowledge learning, reasoning, practical application, business impact and technical challenges. Audience will understand the concept of hyper connected knowledge and how AI can help us to prepare the future.

Bio: Tony Lee is the president and CEO of Saltlux Inc., the Big Data Analytics and Artificial Intelligence (AI) Company, headquartered in Seoul, Korea. He received B.S. and M.S. in Electrical and Electronic Engineering from Inha University of Korea. He held a professor's position in Inha University, teaching Information and Communication Engineering. He was a chairman of the 'KM and ECM Industrial Consortium', and a director of the 'Korea Association for Semantic Information Technology' and 'Society for Computer Intelligence'. Tony is one of the few pioneers in the field of Artificial Intelligence in Asia, contributing to Korean Government's R&D plan for AI technology and to the industrial dissemination. Tony is a chief advisory board member of 'Ministry of Science, ICT and Future Planning' and 'Ministry of Government Administration and Home Affairs'. He was honored with 'Best Paper Prize' from Samsung, 'Best Software Award' from Korean Government and the president of Korea, and the 'Order of Industrial Service Merit' from Korean Government. Tony is also one of leaders of Exobrain project and the several EU FP7 projects. He has authored more than 60 papers, articles, and reports so far.

Program

08:30-09:30, January 18 (Monday), 2016

Keynote Speech (Chair: Ho-Jin Choi, KAIST, Korea)

Exobrain - Hyper Connected Knowledge and the Future of AI

Tony LEE (Saltlux inc., CEO and President)

09:30-10:30, January 18 (Monday), 2016

Session WS3-1: Knowledge Discovery and Classification (Chair: Soojin Park, Sogang University, Korea)

Dual-Spiral Methodology for Knowledgebase Constructions

Kyosung Jeong, Youngkyoung Ham, and Tony Lee (Saltlux Inc.)

Automated Discovery of Small Business Domain Knowledge Using Web Crawling and Data Mining

Sung-Min Kim, and Young-Guk Ha (Konkuk University)

Bringing Bag-of-phrases to ODP-based Text Classification

Haeyong Shin, Byung-Gul Ryu, Woo-Jong Ryu, Geunjae Lee, and Sangkeun Lee (Korea University)

11:00-12:30, January 18 (Monday), 2016

Session WS3-2: Feature Selection and Machine Learning (Chair: Jae-Sung Lee, Chungbuk National University, Korea)

Implementation of Retrieval System for Prior Art Candidate Search

Kyuyeol Han, Jun-Hwan Jang, Jaean Lee, and Youngmin Ahn (WISEnut)

Data-Driven Feature Word Selection for Clustering Online News Comments

Heeryon Cho (Kookmin University), and Jong-Seok Lee (Yonsei University)

Understanding News Stories through SVO Triplets

Zae Myung Kim, Young-Seob Jeong, and Ho-Jin Choi (KAIST)

Political orientation detection on Korean newspapers via sentence embedding and deep learning

Won-Tae Joo, Young-Seob Jeong, and Kyo-Joong Oh (KAIST)

14:00-16:00, January 18 (Monday), 2016

Session WS3-3: Autonomous Intelligent Collaboration Frameworks and IT Ecosystems (Chair: Chang-Eun Lee, ETRI, Korea)

Probabilistic Tourist Trip-planning with Time-dependent Human and Environmental Factors

Woo Young Kwon, Mingu Kim, and Il Hong Suh (Hanyang University)

A Runtime Verification Framework for Dynamically Adaptive Multi-agent Systems

Yoo Jin Lim (Oracle Korea), Gwangui Hong (KFTC), Donghwan Shin, Eunkyong Jee, and Doo-Hwan Bae (KAIST)

A Case Study of Self-adaptive Software in the Dynamic Reconfiguration of IT Ecosystem

Seungmin Lee, Young B Park (Dankook University), and Soojin Park (Sogang University)

Design and Implementation of Service-Oriented Meta-Knowledge Base for Collaboration of Distributes Smart Devices

Dae-Hee Lee, Kyeong-Sik Park, Jin-Sung Park, Seong-Hun Park, Young-Seok Son, and Young-Guk Ha (Konkuk University)

Collective Intelligence-based Idea Platform with Linked Data

Hyeyoung Lee (Innopolis Foundation)

16:30-18:00, January 18 (Monday), 2016

Session WS3-4: Big Data Analytics for Geographical Information and Security (Chair: Eunkyong Jee, KAIST, Korea)

Bigdata analytics on CCTV images for collecting traffic information

Hyeongsoon Im, Bonghee Hong, Seungwoo Jeon, and Jaegi Hong (Pusan National University)

Extraction of Weather Information on Road using CCTV Video

Jiwan Lee, Bonghee Hong, Yongdeok Shin, and Yang-Ja Jang (Pusan National University)

Another Dummy Generation Technique in Location-Based Services

Hyo Jin Do, Young-Seob Jeong, Ho-Jin Choi, and Kwangjo Kim (KAIST)