

# FUTURE MEDICINE IN DIGITAL HEALTHCARE INNOVATION

AIMS2018  
ASAN International Medical Symposium 2018

2018년 6월 15일(금) | 서울아산병원 동관 6층 대강당, 소강당 및 세미나실

Plenary Session I, II 에 동시통역이 제공됩니다.

| Time          | Lecture Title                                                                                                                                                                                                                                                                                                                            | Speaker                                                                                                                | Venue   |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------|
| 08:30 ~       | 등록                                                                                                                                                                                                                                                                                                                                       |                                                                                                                        |         |
| 08:50 ~ 09:15 | 개회식<br>홍보영상<br>개회사<br>환영사                                                                                                                                                                                                                                                                                                                | MC : 한도영(아카데미)<br><br>김재중(서울아산병원 교육부원장)<br>이상도(서울아산병원장)                                                                | [대강당]   |
| 09:15 ~ 15:30 | Plenary Session                                                                                                                                                                                                                                                                                                                          |                                                                                                                        | [대강당]   |
|               | Plenary Session I "Digital Innovation in Healthcare(I)"                                                                                                                                                                                                                                                                                  | Chairperson : 김종재(서울아산병원 아산생명과학연구원장)                                                                                   |         |
| 09:15 ~ 10:45 | Lecture 1 : 4차산업혁명명 관련 보건산업 추진방안<br>Lecture 2 : 딥러닝의 최근 진척 및 미래 의료분야에의 적용<br>Lecture 3 : 건강사회를 위한 디지털헬스케어 융합                                                                                                                                                                                                                             | 양성일(보건복지부)<br>Kyunghyun Cho(New York University, USA)<br>김영학(서울아산병원)                                                   |         |
| 10:45 ~ 11:00 | Coffee Break                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |         |
| 11:00 ~ 12:00 | Lecture 4 : 디지털 의료를 적용한 정밀의료<br>Lecture 5 : 디지털 뇌공학은 어떻게 환자를 돕는가?                                                                                                                                                                                                                                                                        | Steven Steinhubl(Scripps Translational Science Institute, USA)<br>정재승(카이스트)                                            |         |
| 12:00 ~ 12:30 | Panel Discussion<br>양성일(보건복지부), Kyunghyun Cho(New York University, USA), 김영학(서울아산병원), Steven Steinhubl(Scripps Translational Science Institute, USA), 정재승(카이스트)                                                                                                                                                                          | Chairperson : 김종재(서울아산병원 아산생명과학연구원장)                                                                                   |         |
| 12:30 ~ 13:30 | Lunch                                                                                                                                                                                                                                                                                                                                    |                                                                                                                        |         |
|               | Plenary Session II "Digital Innovation in Healthcare(II)"                                                                                                                                                                                                                                                                                | Chairperson : 명승재(서울아산병원 의생명연구소장)                                                                                      | [대강당]   |
| 13:30 ~ 14:50 | Lecture 1 : 4차산업혁명시대 바이오테크놀로지<br>Lecture 2 : 기계학습 기술과 의료 로봇의 혁신<br>Lecture 3 : 인지 기반 지능형 디지털 헬스케어<br>Lecture 4 : Asan Medical Center, our new cutting edge- 최고의 병원이 만들어갈 새로운 병원의 기준                                                                                                                                                      | 이상엽(카이스트)<br>최재순(서울아산병원)<br>Annette Hicks(IBM Co., Australia)<br>박지호(Microsoft)                                        |         |
| 14:50 ~ 15:20 | Panel Discussion<br>이상엽(카이스트), 최재순(서울아산병원), Annette Hicks(IBM Co., Australia), 박지호(Microsoft)                                                                                                                                                                                                                                            | Chairperson : 명승재(서울아산병원 의생명연구소장)                                                                                      |         |
| 15:20 ~ 15:40 | Coffee Break                                                                                                                                                                                                                                                                                                                             |                                                                                                                        |         |
| 15:40 ~ 17:40 | Parallel Session                                                                                                                                                                                                                                                                                                                         |                                                                                                                        | [대강당외]  |
|               | Track I "Hospital Innovation"                                                                                                                                                                                                                                                                                                            | Chairperson : 김영학(서울아산병원 헬스이노베이션빅데이터센터소장)                                                                              | [소강당]   |
| 15:40 ~ 17:40 | Lecture 1 : 4차산업혁명과 정밀의학 - 정밀의료 병원정보시스템과 빅데이터를 중심으로<br>Lecture 2 : 의료영상을 이용한 보건의료혁신<br>Lecture 3 : 임상-유전체 통합정보 기반 정밀의료<br>Lecture 4 : 글로벌 EHR 시스템의 핵심: 데이터 상호운용성과 통합<br>Lecture 5 : 정밀의료를 적용하기 위한 병원 내 혁신<br>Panel Discussion<br>이상헌(고려대 안암병원), 서준범(서울아산병원), 박웅양(삼성서울병원), 황희(분당서울대병원), 김규표(서울아산병원)                                       | 이상헌(고려대 안암병원)<br>서준범(서울아산병원)<br>박웅양(삼성서울병원)<br>황희(분당서울대병원)<br>김규표(서울아산병원)<br>Chairperson : 김영학(서울아산병원 헬스이노베이션빅데이터센터소장) |         |
|               | Track II "Digital Technology"                                                                                                                                                                                                                                                                                                            | Chairperson : 김승철(서울아산병원 의공학연구소장)                                                                                      | [대강당]   |
| 15:40 ~ 17:40 | Lecture 1 : 정밀의학을 위한 데이터기반 이미징 바이오마커<br>Lecture 2 : 의료 데이터 분석을 위한 데이터 기반 인공지능 기술 및 적용 사례<br>Lecture 3 : 디지털 헬스케어를 활용한 만성질환 관리<br>Lecture 4 : 의료 영상에서의 딥러닝 적용 사례<br>Lecture 5 : 의료 경로 빅데이터 분석<br>Panel Discussion<br>백승욱(쥬루닛), 정규환(쥬VUNO), 최두아(쥬휴레이포지티브), 송교석(쥬메디픽셀), 조용현(linewalks)                                                      | 백승욱(쥬루닛)<br>정규환(쥬VUNO)<br>최두아(쥬휴레이포지티브)<br>송교석(쥬메디픽셀)<br>조용현(linewalks)<br>Chairperson : 김승철(서울아산병원 의공학연구소장)           |         |
|               | Track III "Healthcare Policy"                                                                                                                                                                                                                                                                                                            | Chairperson : 권순억(서울아산병원 임상연구보호센터소장)                                                                                   | [2세미나실] |
| 15:40 ~ 17:40 | Lecture 1 : 헬스케어 산업 육성을 위한 산업부의 정책<br>Lecture 2 : ICT 기반 미래 보건의료정책의 이슈들과 추진방향<br>Lecture 3 : ICT 산업 데이터 활용 촉진과 보안을 위한 정책 방안<br>Lecture 4 : 디지털 헬스케어 연구에 있어 기관생명윤리위원회를 위한 정책 제언<br>Lecture 5 : 공동선을 위한 ICT 헬스케어 정책 원칙 : 지속가능성, 포용가능성, 신뢰가능성<br>Panel Discussion<br>최수진(산업통상자원부), 오상윤(보건복지부), 김호성(한국인터넷진흥원), 서정임(국가생명윤리정책연구원), 유소영(서울아산병원) | 최수진(산업통상자원부)<br>오상윤(보건복지부)<br>김호성(한국인터넷진흥원)<br>서정임(국가생명윤리정책연구원)<br>유소영(서울아산병원)<br>Chairperson : 권순억(서울아산병원 임상연구보호센터소장) |         |

- This is a conceptual full day scientific program. The actual scientific program can be modified.

## Keynote Speaker



**양성일 [보건복지부]**  
- 보건산업정책국장



**Kyunghyun Cho [New York University, USA]**  
- 컴퓨터 공학 및  
데이터과학과 조교수



**김영학 [서울아산병원]**  
- 헬스이노베이션빅데이터센터소장  
- 의료정보부실장  
- 심장내과 교수



**Steven Steinhubl [Scripps Translational Science Institute, USA]**  
- 스크립스 중개과학연구소  
디지털의학소장  
- 스크립스 연구소 분자약학과 교수



**정재승 [카이스트]**  
- 바이오 및 뇌공학과 교수  
- 다보스포럼 ‘차세대 글로벌 리더’ 선정(‘09)



**이상엽 [카이스트]**  
- 카이스트 연구원장  
- 카이스트 생명화학공학과 특훈교수  
- 대한민국 최고과학기술인상,  
호암공학상, 청암과학상 등 수상



**Annette Hicks [IBM Co., Australia]**  
- 왓슨 의료 수석고문  
- IBM Industry Academy 회원  
- 前 IBM 호주&뉴질랜드 의료산업 리더



**박지호 [마이크로소프트]**  
- 마이크로소프트 아시아 프레젠테이션  
대회 최우수상(‘06), 우수상(‘07)  
- 마이크로소프트 코리아  
올해의 혁신상 수상(‘07)



# FUTURE MEDICINE IN DIGITAL HEALTHCARE INNOVATION

AIMS2018  
ASAN International Medical Symposium 2018

Friday 15 June 2018 | Asan Medical Center, Seoul, Korea

 Simultaneous Interpretation will be provided at the Plenary Sessions.

| Time          | Lecture Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Speaker                                                                                                                                                                                                                                                                                                                                                                                        | Venue                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 08:30 ~       | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                | [Grand Auditorium]                                                                    |
| 08:50 ~ 09:15 | Opening Ceremony<br>Opening Video Clip<br>Opening Remarks<br>Welcome Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | MC : Christina Han(Asan Academic Institute, AMC, Korea)<br><br>Jae-Joong Kim(Vice President & Chief Education Officer, AMC, Korea)<br>Sang-Do Lee(President & CEO, AMC, Korea)                                                                                                                                                                                                                 | [Grand Auditorium]                                                                    |
| 09:15 ~ 15:30 | Plenary Session                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
|               | Plenary Session I      "Digital Innovation in Healthcare(I)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Chairperson : Chong Jai Kim<br>(Chairman, Asan Institute for Life Sciences & Chief Research Officer, AMC, Korea)                                                                                                                                                                                                                                                                               |                                                                                       |
| 09:15 ~ 10:45 | Lecture 1 : Ways to Promote Korea's Healthcare Industry 4.0<br>Lecture 2 : Recent Advances in Deep Learning and its Future Implications in Medicine<br>Lecture 3 : Collaborative Digital Healthcare Ecosystem for Healthier Society                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | YANG SEONG IL(Bureau of Health Industry, Korea)<br>Kyunghyun Cho(New York University, USA)<br>Young-Hak Kim(Asan Medical Center, Korea)                                                                                                                                                                                                                                                        |  |
| 10:45 ~ 11:00 | Coffee Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| 11:00 ~ 12:00 | Lecture 4 : Precision Medicine Requires Digital Medicine<br>Lecture 5 : How is advanced brain engineering used for therapeutic treatment of neuropsychiatric disorders?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Steven Steinhubl(Scripps Translational Science Institute, USA)<br>Jae-Seung Jung(KAIST, Korea)                                                                                                                                                                                                                                                                                                 |                                                                                       |
| 12:00 ~ 12:30 | Panel Discussion<br><br>YANG SEONG IL(Bureau of Health Industry, Korea), Kyunghyun Cho(New York University, USA), Young-Hak Kim(Asan Medical Center, Korea), Steven Steinhubl(Scripps Translational Science Institute, USA), Jae-Seung Jung(KAIST, Korea)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Chairperson : Chong Jai Kim<br>(Chairman, Asan Institute for Life Sciences & Chief Research Officer, AMC, Korea)                                                                                                                                                                                                                                                                               |  |
| 12:30 ~ 13:30 | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                | [Grand Auditorium]                                                                    |
|               | Plenary Session II      "Digital Innovation in Healthcare(II)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Chairperson : Seung Jae Myung<br>(Chief Director, Biomedical Research Center, AMC, Korea)                                                                                                                                                                                                                                                                                                      |                                                                                       |
| 13:30 ~ 14:50 | Lecture 1 : Biotechnology in the era of the fourth industrial revolution<br>Lecture 2 : Innovative Medical Robot with Machine Learning Technologies<br>Lecture 3 : Intelligent Digital Healthcare with Cognitive<br>Lecture 4 : Asan Medical Center, our new cutting edge<br>- Standards for New Hospitals made by Top Hospital                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sang Yup Lee(KAIST Insitute, Korea)<br>Jaesoon Choi(Asan Medical Center)<br>Annette Hicks(IBM Co., Australia)<br>Ji Ho Park(Microsoft, Korea)                                                                                                                                                                                                                                                  |  |
| 14:50 ~ 15:20 | Panel Discussion<br><br>Sang Yup Lee(KAIST Insitute, Korea), Jaesoon Choi(Asan Medical Center), Annette Hicks(IBM Co., Australia), Ji Ho Park(Microsoft, Korea)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Chairperson : Seung Jae Myung<br>(Chief Director, Biomedical Research Center, AMC, Korea)                                                                                                                                                                                                                                                                                                      |                                                                                       |
| 15:20 ~ 15:40 | Coffee Break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |
| 15:40 ~ 17:40 | Parallel Session                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                | [Auditorium]                                                                          |
|               | Track I      "Hospital Innovation"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Chairperson : Young-Hak Kim<br>(Chief Director, Health Innovation Big Data Center, AMC, Korea)                                                                                                                                                                                                                                                                                                 |                                                                                       |
| 15:40 ~ 17:40 | Lecture 1 : 4th Industrial Revolution and Precision Medicine<br>- Focusing on Precision Medicine Hospital Information System and Big Data<br><br>Lecture 2 : Innovation of Healthcare with Medical Imaging<br>Lecture 3 : Integration of clinical and genomic data for precision medicine<br>Lecture 4 : Essentials of Global EHR System: Interoperability and integration of data<br>Lecture 5 : Innovations to deliver precision medicine within the clinic<br>Panel Discussion<br><br>Sang-Heon Lee(Korea University Anam Medical Center, Korea), Joon Beom Seo(Asan Medical Center, Korea), Woong-Yang Park(Samsung Medical Center, Korea), HEE HWANG(Seoul National University Bundang Hospital, Korea), Kyupyo Kim(Asan Medical Center, Korea)                            | Sang-Heon Lee(Korea University Anam Medical Center, Korea)<br><br>Joon Beom Seo(Asan Medical Center, Korea)<br>Woong-Yang Park(Samsung Medical Center, Korea)<br>HEE HWANG(Seoul National University Bundang Hospital, Korea)<br>Kyupyo Kim(Asan Medical Center, Korea)<br>Chairperson : Young-Hak Kim<br>(Chief Director, Health Innovation Big Data Center, AMC, Korea)                      | [Grand Auditorium]                                                                    |
|               | Track II      "Digital Technology"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Chairperson : Song-Cheol Kim<br>(Chief Director, Biomedical Engineering Research Center, AMC, Korea)                                                                                                                                                                                                                                                                                           |                                                                                       |
| 15:40 ~ 17:40 | Lecture 1 : Data-driven Imaging Biomarker for Precision Medicine<br>Lecture 2 : Data-driven Applications of Artificial Intelligence<br>Lecture 3 : Using digital health technology to manage<br>Lecture 4 : Deep Learning Applications in Medical imaging<br>Lecture 5 : Analysis of medical data using artificial<br>Panel Discussion<br><br>Anthony Paek (Lunit Inc., Korea), Kyu-Hwan Jung(VUNO Inc., Korea), Doo-Ah Choi(HURAYPOSITIVE Inc., Korea), Kyoseok Song(Medipixel Inc., Korea), Yonghyun Cho(linewalks, Korea)                                                                                                                                                                                                                                                    | Anthony Paek(Lunit Inc., Korea)<br>Kyu-Hwan Jung(VUNO Inc., Korea)<br>Doo-Ah Choi(HURAYPOSITIVE Inc., Korea)<br>Kyoseok Song(Medipixel Inc., Korea)<br>Yonghyun Cho(linewalks, Korea)<br>Chairperson : Song-Cheol Kim<br>(Chief Director, Biomedical Engineering Research Center, AMC, Korea)                                                                                                  | [Seminar Room 2]                                                                      |
|               | Track III      "Healthcare Policy"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Chairperson : Sun U. Kwon<br>(Chief Director, Clinical Research Protection Center, AMC, Korea)                                                                                                                                                                                                                                                                                                 |                                                                                       |
| 15:40 ~ 17:40 | Lecture 1 : MOTIE policy for Industry of Healthcare<br>Lecture 2 : Trends on Global Digital Healthcare Policy and Suggestions on Implementation of Domestic Policy<br><br>Lecture 3 : Policy Directions for the Promotion of ICT Industry Data Utilization<br>Lecture 4 : Advisory Framework for IRB policy on Digital Healthcare Research<br>Lecture 5 : Principles of ICT Healthcare Policy for the Common Good : Sustainability, Inclusivity and Trustworthiness<br>Panel Discussion<br><br>Sujin Choi(Ministry of Trade, Industry and Energy, Korea), Sangyoon Oh(Bureau of Health Industry, Korea), Ho Seong Kim(Korea Internet & Security Agency(KISA), Korea), Jungim Seo(Korea National Institute for Bioethics Policy, Korea), Soyoung Yoo(Asan Medical Center, Korea) | Sujin Choi(Ministry of Trade, Industry and Energy, Korea)<br>Sangyoon Oh(Bureau of Health Industry, Korea)<br><br>Ho Seong Kim(Korea Internet & Security Agency(KISA), Korea)<br>Jungim Seo(Korea National Institute for Bioethics Policy, Korea)<br>Soyoung Yoo(Asan Medical Center, Korea)<br>Chairperson : Sun U. Kwon<br>(Chief Director, Clinical Research Protection Center, AMC, Korea) |                                                                                       |

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