

Everyday - From	To	Event	Location
7:30 AM	8:30 AM	Registration	Prefunction Space
7:30 AM	8:30 AM	Breakfast	Event/Exhibition Space
12:00 PM	1:00 PM	Lunch	Event/Exhibition Space

## Monday, June 26

From	to	Session	from	to	Session#
8:30 AM	4:30 PM	Workshop 1			
8:30 AM	4:30 PM	Workshop 2			
8:30 AM	4:30 PM	Workshop 3			
8:30 AM	4:30 PM	Workshop 4			
8:30 AM	12:00 PM	Workshop 5			
1:00 PM	4:30 PM	Workshop 6			
1:00 PM	4:30 PM	Doctoral Consortium (1)	1:00	1:25	D101
			1:30	1:55	D102
			2:00	2:25	D103
			2:50	3:15	D104
			3:20	3:45	D105
			3:50	4:15	D106

## Tuesday, June 27

From	to	Session	from	to	Session#
8:30 AM	12:00 PM	Doctoral Consortium (2)	8:30	8:55	D201
			9:00	9:25	D202
			9:30	9:55	D203
			10:20	10:45	D204
			10:50	11:15	D205
8:30 AM	12:00 PM	Tutorial 1			
8:30 AM	12:00 PM	Tutorial 2			

8:30 AM	12:00 PM	Tutorial 3			
8:30 AM	12:00 PM	Tutorial 4			
1:00 PM	2:15 PM				
2:30 PM	4:00 PM	Panels	2:30	4:00	
			2:30	4:00	
2:30 PM	4:00 PM	Analytics 1	2:30	2:45	A101
			2:45	3:00	A102
			3:00	3:15	A103
			3:15	3:30	A104
			3:30	3:45	A105
			3:45	4:00	
2:30 PM	4:00 PM	Human Factors 1	2:30	2:45	H101
			2:45	3:00	H102
			3:00	3:15	H103
			3:15	3:30	H104
			3:30	3:45	H105
			3:45	4:00	
2:30 PM	4:00 PM	Systems	2:30	2:45	S101
			2:45	3:00	S102
			3:00	3:15	S103
			3:15	3:30	S104
			3:30	3:45	S105
			3:45	4:00	
4:00 PM	5:30 PM				
6:00 PM	8:00 PM				

## Wednesday, June 28

From	to	Session	from	to	Session#
9:00 AM	10:00 AM	Keynote 2			
10:30 AM	12:00 PM	Analytics 2: Deep Learning	10:30	10:45	A201

10:30 AM	12:00 PM	Analytics 3: Representations	10:45	11:00	A202
			11:00	11:15	A203
			11:15	11:30	A204
			11:30	11:45	A205
			11:45	12:00	
			10:30	10:45	A301
			10:45	11:00	A302
			11:00	11:15	A303
			11:15	11:30	A304
			11:30	11:45	A305
10:30 AM	12:00 PM	Human Factors 2	11:45	12:00	
			10:30	10:50	H201
			10:50	11:10	H202
			11:10	11:30	H203
			11:30	11:50	H204
			11:50	12:00	
1:00 PM	2:30 PM	Analytics 4: Covid	1:00	1:15	A401
			1:15	1:30	A402
			1:30	1:45	A403
			1:45	2:00	A404
			2:00	2:15	A405
			2:15	2:30	
1:00 PM	2:30 PM	Analytics 5: NLP	1:00	1:15	A501
			1:15	1:30	A502
			1:30	1:45	A503
			1:45	2:00	A504
			2:00	2:15	A505
			2:15	2:30	
1:00 PM	2:30 PM	A6: Spatio-Temporal	1:00	1:15	A601

			1:15	1:30	A602
			1:30	1:45	A603
			1:45	2:00	A604
			2:00	2:15	A605
			2:15	2:30	
3:00 PM	4:30 PM	A7: phenotyping, fairness and explainability	3:00	3:15	A701
			3:15	3:30	A702
			3:30	3:45	A703
			3:45	4:00	A704
			4:00	4:15	A705
			4:15	4:30	
3:00 PM	4:30 PM	A8: Deep Learning (2)	3:00	3:15	A801
			3:15	3:30	A802
			3:30	3:45	A803
			3:45	4:00	A804
			4:10	4:30	
	4:30 PM				Keynote 3
	6:00 PM				Ceremony/Banquet
	5:30 PM				
	8:00 PM				

## Thursday, June 29

From	to	Session	from	to	Session#
	8:45 AM	Keynote 4			
10:00 AM	12:00 PM	Industry	10:00	10:20	I101
			10:20	10:40	I102
			10:40	11:00	I103
			11:00	11:20	I104
			11:20	11:40	I105
			11:40	12:00	I106
12:00 PM	12:30 PM	Closing Session			



### **Presentation Title**

Towards Precise and Equitable Organ Allocation in Transplant with Machine Learning  
The Design & Evaluation of an Information Visualization to Improve the Efficiency and Understanding of Patient Health State  
ECombo: Knowledge-based Personalized Meal Recommendation System for Chinese Community-dwelling Elders  
Trace Augmentation with Missing EHRs for Sepsis Treatments  
Suicide Tendency Prediction from Psychiatric Notes Using Transformer Models  
Developing Multi-Task Learning Methods to Aid in Electronic Healthcare Prediction

### **Presentation Title**

A deep-learning-based two-compartment predictive model (PKRNN-2CM) for vancomycin therapeutic drug monitoring  
Using VR to Elicit Empathy in Current and Future Psychiatrists for their Patients of Color  
Technologies to Reduce Social Isolation among Older Adults: A Move from Digital to Tangible  
Development of a determinant framework to guide the translation of AI systems in clinical care  
Explainable Microaggression Detector for Improving Doctor – Patient Interactions.  
Modifying the Design Sprint Methodology: Leveraging Online Tools for Collaborating and Prototyping in Research Settings  
Training Recurrent Neural Network-Based Model to Predict COVID-19 Patient Risk for PASC using Pytorch\_EHR

Enabling AI-Augmented Clinical Workflows by Accessing Patient Data in Real-Time with FHIR

Trustworthy Computing in Biomedical Challenges

Welcome session & Keynote 1

Chat-GPT Panel

Other Panel ??

Causal Structure Learning from Imperfect Longitudinal Data in Healthcare

Supporting Physicians Through Prescriptive Process Monitoring

A BPMN-based Framework to Manage Enhanced Recovery After Surgery (ERAS) Pathway for Patients Undergoing Pancreatic Surgery

Analysis of residual stones in patients and related influencing factors after percutaneous nephrolithotomy: a retrospective study

Leveraging Social Support Types and Link Prediction for User Recommendation for Online Health Community in Pregnancy After Loss

Q&A

(Non-)Physiological Data for Wearables in VR Sport Applications and Exergames

Characterizing the Users of Patient Portal Messaging: A Single Institutional Cohort Study

A Process for Evaluating Explanations for Transparent and Trustworthy AI Prediction Models

Designing Software for Genomics Medicine Service Leadersto Engage Stakeholders

Patient Dashboards of Electronic Health Record Data to Support Clinical Care: A Systematic Review

Q&A

Automated Assessment of Critical View of Safety in Laparoscopic Cholecystectomy

Towards a Comparative Assessment of Data-Driven Process Models in Health Information Technology

Development of a Natural Language Processing Tool to Extract Acupuncture Point Location Terms

Sleep Monitoring: Enriching the Traditional Approach by Sensor-collected Data

Closing the Loop for Patients with Chronic Diseases - from Problems to a Solution Architecture

Q&A

Poster & Demo Sessions

Reception

### Presentation Title

Inferring Personalized Treatment Effect of Antihypertensives on Alzheimer's Disease Using Deep Learning

A neural network system for rating student performance in surgical knot tying simulation

AHP-CM: Attentional Homogeneous-Padded Composite Model for Respiratory Anomalies Prediction

End-to-End  $\$n\$$ -ary Relation Extraction for Combination Drug Therapies

Mitigating Membership Inference in Deep Survival Analyses with Differential Privacy

Q&A

Tensor Embedding: A Supervised Framework for Human Behavioral Data Mining and Prediction

Optimizing Embedding Space with Sub-categorical Supervised Pre-training: A Theoretical Approach Towards Improving Sepsis Prediction

Beyond Labels: Visual Representations for Bone Marrow Cell Morphology Recognition

Classification Graph to the Internet of Health Things Applications

Graph Neural Network Modeling of Web Search Activity for Real-time Pandemic Forecasting

Q&A

Population-Level Visual Analytics of Smartphone Sensed Health and Wellness Using Community Phenotypes

An LSTM-based Gesture-to-Speech Recognition System

Social Contextualization of Datasets for Mental Health AI: a Review of Gender-linked Sociotechnical Misalignments

The need for the human-centred explanation for ML-based clinical decision support systems

Q&A

A hybrid machine learning-based algorithm for evidence-based Covid-19 control policy making

Prediction of COVID-19 Patients' Emergency Room Revisit using Multi-Source Transfer Learning

Which Features Are Useful in Machine Learning-Based COVID-19 Prognostication? A Meta-Analysis

Long COVID Challenge: Predictive Modeling of Noisy Clinical Tabular Data

Predicting Outcomes in Long COVID Patients with Spatiotemporal Attention

Q&A

Prompting for Few-shot Adverse Drug Reaction Recognition from Online Reviews

Classification of Patient Portal Messages with BERT-based Language Models

Identifying Major Depressive Disorder From Clinical Notes Using Neural Language Models with Distant Supervision

Detecting Reddit Users with Depression Using A Hybrid Neural Network SBERT-CNN

Extracting periodontitis diagnosis in clinical notes with RoBERTa and regular expression

Q&A

Empirical Study of Mix-based Data Augmentation Methods in Physiological Time Series Data



Cluster Analysis to Find Temporal Physical Activity Patterns Among US Adults

Spatial-Temporal Networks for Antibigram Pattern Prediction

CVAE-based Generator for Variable Length Synthetic ECG

Twelve Lead Double Stacked Generalization for ECG Classification

Q&A

Enforcing Explainable Deep Few-Shot Learning to Analyze Plain Knee Radiographs: Data from the Osteoarthritis Initiative

Quantification of racial disparity on urinary tract infection recurrence and treatment resistance in Florida using algorithmic fairness methods

PheME: A deep ensemble framework for improving phenotype prediction from multi-modal data

FROM DIGITAL PHENOTYPE IDENTIFICATION TO DETECTION OF PSYCHOTIC RELAPSES

A Lightweight Segmentation Method for Mandibular Canal Based on Arch Shape and Hough Transform

Q&A

Improving prediction of late symptoms using LSTM and patient-reported outcomes for head and neck cancer patients

Early Diagnosis of Mild Cognitive Impairment Using Deep Neural Network with and without Multi-input Analysis

Zero-Shot Meta-Learning for Small-Scale Data From Human Subjects

Live births forecasting across health regions of Goiás using artificial neural networks: a clustering approach

Q&A

### **Presentation Title**

Case Volumes in Users and Non-Users of a Digital Application to Visualize Surgical Workflow Data

Intent Recognition on Low-Resource Language Messages in a Health Marketplace Chatbot

Document Understanding for Healthcare Referrals

Validation of a Hospital Digital Twin with Machine Learning

DATA PLATFORM TO ACCELERATE HEALTHCARE INSIGHTS GENERATION

Invited talk - Sponsor TBD



<b>Presenters</b>	<b>Location</b>	<b>Paper ID</b>
Sirui Ding	Auditorium	1161
Ahmed Mohammed Patel		1338
Zidu Xu		2216
Ge Gao		3273
Zehan Li		3800
Edward Tsien		4019

<b>Presenters</b>	<b>Location</b>	<b>Paper ID</b>
Bingyu Mao	Auditorium	4228
Benjamin Corriette		4252
Pallabi Bhowmick		5310
Ayomide Owoyemi		8033
Mikel Ngueajio Kengni		9368
Juandalyn Coffen-Burke, Kai- Wen Yang, Casey Overby Taylor	BRC-282	1773
Laila Rasmy, Ziqian Xie, Degui Zhi	BRC-284	3665

Vincent Major, Walter Wang, Yindalon Aphinyanaphongs Haohan Wang	BRC-285	3737
TBD	BRC-286 Auditorium Auditorium	9419
Haoyu Yang	BRC - 282	1922
Steven Mertens		7053
Matteo Mantovani		8271
Lin Li		8547
Michal Monselise		9708
Dirk Queck	BRC - 285	643
Ming Huang		1578
Erhan Pisirir		2159
Juandalyn Coffen-Burke		2375
Bárbara Ramalho		5209
Yunfan Li	BRC - 285	192
Hilda Klasky		3490
Yiming Li		8571
Sara Comai		8819
Andri Färber		9671

Event/Exhibit  
ion Space  
SBMI

Presenters	Location	Paper ID
Pulakesh Upadhyaya	Auditorium BRC - 282	3894

Yunzhe Xue		5823
Md Motiur Rahman		6701
Yuhang Jiang		645
Liyue Fan		9933
Homa Hosseinmardi	BRC - 284	1918
Tingyi Wanyan		6322
Shayan Fazeli		8594
Evilasio Costa Junior		1342
Chen Lin		8385
Hamid Mansoor	BRC - 285	7186
Riyad Bin Rafiq		8437
Xing Chen		8784
Yan Jia		9116
Fatemeh Navazi	BRC - 282	6366
Yuelyu Ji		6922
Minhaz Mahmud		8651
Mirna Elizondo		4140
Degan Hao		4444
Chia-Hsuan Chang	BRC - 284	319
Yang Ren		988
Kurt Miller		2868
Ziyi Chen		4100
Yao-Shun Chuang		6907
Peikun Guo	BRC - 285	5551

Jiaqi Guo	6798
Xingbo Fu	6842
Sagnik Dakshit	8182
Sagnik Dakshit	3356

Nickolas Littlefield	BRC - 282	8560
Inyoung Jun		3664
Ruixiang Tang		841
Niki Efthymiou		1002
Maira Beatriz Hernandez Moran		8724

Yaohua Wang	BRC - 284	456
Pouneh Abbasian		726
Julie Jiang		1067
Arthur Ricardo Sousa Vitoria		2721

Auditorium  
TBD

Presenters	Location	Paper ID
	Auditorium	
Jeffrey Voien	Auditorium	4188
David Tresner-Kirsch		4414
Jimit Mistry		6208
Muhammad Ahmad		8115
Arun Sundararaman		9931

Auditorium



### **Authors**

Sirui Ding

Ahmed Mohammed Patel

Zidu Xu, Jiao Li and Maxim Topaz

Ge Gao and Min Chi

Zehan Li, Iqra Ameer and Hua Xu

Edward Tsien, Dezhi Wu and Ana Lopez-De Fede

### **Authors**

Bingyu Mao, Ziqian Xie, Laila Rasmy, Masayuki Nigo and Degui Zhi

Benjamin Corriette, Darryl Parsons, Chidindu Alim, Teanna Barrett, Tariq Cranston and  
Gloria Washington

Pallabi Bhowmick

Ayomide Owoyemi

Mikel Ngueajio Kengni and Gloria Washington

Juandalyn Coffen-Burke, Kai-Wen Yang, Casey Overby Taylor

Laila Rasmy, Ziqian Xie, Degui Zhi



Vincent Major, Walter Wang, Yindalon Aphinyanaphongs

Haohan Wang

Haoyu Yang, Roshan Tourani, Jia Li, Pedro Caraballo, Michael Steinbach, Vipin Kumar  
and Gyorgy Simon

Steven Mertens and Frederik Gailly

Matteo Mantovani, Andrea Caravati, Giuseppe Pozzi, Carlo Combi and Roberto Salvia

Lin Li, Mimi Liu, Cong Lai, Weidong Ji, Kewei Xu and Yi Zhou

Michal Monselise and Christopher Yang

Dirk Queck, Iannis Albert, Michelle Turner, Georg Volkmar, Rainer Malaka and Marc  
Herrlich

Ming Huang, Aditya Khurana, George Mastorakos, Jiawei Zhou, Nansu Zong, Yue Yu,  
Julie E. Prigge, Christi A. Patten, Hongfang Liu and Brian A. Costello

Erhan Pisirir, Jared Wohlgemut, Evangelia Kyrimi, Rebecca Stoner, Zane Perkins, Nigel  
Tai and William Marsh

Juandalyn Coffen-Burke, Kai-Wen Yang, Zoljargal Lkhagvajav, Yuzhi Lu, Tamisha  
Segbefia, Natalie Wang, James Stevenson and Casey Taylor  
Bárbara Ramalho, Sandra Gama and Francisco Nunes

Yunfan Li, Himanshu Gupta, Haibin Ling, Iv Ramakrishnan, Prateek Prasanna, Aaron  
Sasson and Georgios Georgakis

Hilda Klasky, Ozgur Ozmen, Olufemi Omitaomu, Mohammed Olama, Merry Ward, Angela  
Laurio and Jonathan Nebeker

Yiming Li, Xueqing Peng, Jianfu Li, Suyuan Peng, Donghong Pei, Hua Xu and Na Hong

Sara Comai, Lorenzo Carpaneto, Andrea Masciadri, Giuseppe Pozzi and Fabio Salice

Andri Färber, Alexandre de Spindler, Adrian Moser and Gerhard Schwabe

## **Authors**

Pulakesh Upadhyaya, Yaobin Ling, Luyao Chen, Yejin Kim and Xiaoqian Jiang

Yunzhe Xue, Olanrewaju Eletta, Justin Ady, Nell Patel, Advait Bongu and Usman Roshan  
Md Motiur Rahman, Miad Faezipour, Smriti Bhatt and Sudip Vhaduri

Yuhang Jiang and Ramakanth Kavuluru  
Liyue Fan and Luca Bonomi

Homa Hosseinmardi, Amir Ghasemian, Shrikanth Narayanan, Kristina Lerman and Emilio Ferrara  
Tingyi Wanyan, Mingquan Lin, Ying Ding, Benjamin S Glicksberg, Fei Wang and Yifan Peng  
Shayan Fazeli, Alireza Samiei, Thomas Lee and Majid Sarrafzadeh  
Evilasio Costa Junior, Rossana Andrade and Leonardo Sampaio  
Chen Lin, Jianghong Zhou, Jing Zhang, Carl Yang and Eugene Agichtein

Hamid Mansoor, Walter Gerych, Abdulaziz Alajaji, Luke Buquicchio, Kevin Chandrasekaran, Emmanuel Agu and Elke Rundensteiner  
Riyad Bin Rafiq, Syed Araib Karim and Mark V. Albert  
Xing Chen, Yegin Genc and Zhan Zhang

Yan Jia, John McDermid, Nathan Hughes, Mark Sujan, Tom Lawton and Ibrahim Habli

Fatemeh Navazi, Yufei Yuan and Norm Archer

Yuelyu Ji, Yuhe Gao, Runxue Bao, Qi Li, Disheng Liu, Yiming Sun and Ye Ye

Minhaz Mahmud, Md Rakibul Hasan, Reabal Najjar and Md Zakir Hossain

Mima Elizondo, Rasim Musal, June Yu and Jelena Tesic  
Degan Hao and Mohammadreza Negahdar

Chia-Hsuan Chang, Fang-Yu Chang and San-Yih Hwang  
Yang Ren, Dezhi Wu, Aditya Khurana, George Mastorakos, Sunyang Fu, Nansu Zong, Hongfang Liu and Ming Huang  
Kurt Miller, Bhavani Singh Agnikula Kshatriya, Nicolas Nunez, Manuel Gardea-Resendez, Euijung Ryu, Brandon Coombes, Sunyang Fu, Mark Frye, Joanna Biemacka, Ming Huang and Yanshan Wang  
Ziyi Chen, Ren Yang, Sunyang Fu, Nansu Zong, Hongfang Liu and Ming Huang  
Yao-Shun Chuang, Chun-Teh Lee, Oluwabunmi Tokede, Ryan Brandon, Trung Duong Tran, Xiaoqian Jiang and Muhammad F. Walji

Peikun Guo, Huiyuan Yang and Akane Sano

Jiaqi Guo, Marah Aqeel, Luotao Lin, Saul Gelfand, Heather Eicher-Miller, Anindya Bhadra, Erin Hennessy, Elizabeth Richards and Edward Delp  
Xingbo Fu, Chen Chen, Yushun Dong, Anil Vullikanti, Eili Klein, Gregory Madden and Jundong Li  
Sagnik Dakshit and Balakrishnan Prabhakaran  
Sagnik Dakshit and Balakrishnan Prabhakaran

Nickolas Littlefield, Hamidreza Moradi, Soheyla Amirian, Hilal Maradit Kremers, Johannes F. Plate and Ahmad P. Tafti  
Inyoung Jun, Sarah Ser, Jie Xu, Jiang Bian and Mattia Proserpio

Ruixiang Tang, Sirui Ding, Shenghan Zhang, Haoxuan Li, Laila Rasmy, Degui Zhi, Na Zou and Xia Hu  
Niki Efthymiou, George Retsinas, Panagiotis Filintisis, Christos Garoufis, Athanasia Zlatintsi, Emmanouil Kalisperakis, Vasiliki Garyfalli, Thomas Karantinos, Marina Lazaridi, Nikolaos Smyrnis and Petros Maragos  
Maira Beatriz Hernandez Moran, Larissa Aparecida Vaz Oliveira, Marcelo Faria, Luciana Bastos, Gilson Giraldo, José Firmino Nogueira Neto and Aura Conci

Yaohua Wang, Lisanne Van Dijk, Abdallah S. R. Mohamed, Mohamed Naser, Clifton David Fuller, Xinhua Zhang, G. Elisabeta Marai and Guadalupe Canahuat  
Pounheh Abbasian and Tracy Hammond

Julie Jiang, Kristina Lerman and Emilio Ferrara  
Arthur Ricardo Sousa Vitoria, Adriel Lennner Vinhal Mori, Diogo Fernandes Costa Silva, Daniel do Prado Pagotto, Clarimar José Coelho and Arlindo Rodrigues Galvão Filho

### **Authors**

Jeffrey Voien, Ameya Shere, Robert Mostellar and Gretchen Jackson

David Tresner-Kirsch, Amanda Azari Mikkelsen, Chika Yinka-Banjo, Mary Akinyemi and Siddhartha Goyal  
Jimit Mistry and Natalia Arzeno  
Muhammad Ahmad, Vijay Chickarmane, Farinaz Ali Sabzpour, Nima Shariari and Taposh Roy  
Arun Sundararaman