

Program at a Glance (IEEE ICSC/AIMHC 2024)

All times are in Pacific Time (PT)

Monday, February 5		
Time (PT)\Place	Crystal 1 + Virtual Room	Crystal 2 + Parallel Virtual Room (AIMHC 2024)
07:30 - 17:00	Registration	
07:30 - 08:30	Breakfast @Foyer (next to Crystal 1)	
08:30 - 09:00	Opening Ceremony (Chairs: Phillip Sheu, David Ostrowski, Kyle Li, Bryan Chou)	
09:00 - 10:00	Keynote 1: Dick Bulterman (Chair: David Ostrowski)	
10:00 - 10:20	Coffee break @Foyer (next to Crystal 1)	
10:20 - 11:50	Session (ICSC-1) - Best Paper Candidates (I) (4 regular papers) (Chair: Lubomir Stanchev)	Session (AIMHC-1) - Analytics of Medical & Health Related Big Data (2 regular paper, 1 short paper, 3 position papers) (Chair: Soo Kyung Bae)
11:50 - 13:00	Lunch @Cafe, first floor	
13:00 - 13:45	Session (ICSC-13) - Best Paper Candidates (II) (2 regular papers) (Chair: Kyle Li)	Session (AIMHC-2) - COVID-19 Research & Cardiovascular Disease (1 regular papers, 3 short papers) (Chair: Bryan Chou)
13:45 - 15:05	Session (ICSC-2) - Image and Video Analysis (3 regular papers, 1 short papers) (Chair: Ramazan Aygun)	
15:05 - 16:15	Session (ICSC-5) - NLP (I) (1 regular paper, 3 short papers) (Chair: Ramazan Aygun)	Session (AIMHC-3) - Chronic Diseases (1 regular papers, 2 short papers, 2 position papers)

		(Chair: Gary Glesener)
16:15 - 16:30	Coffee break @Foyer (next to Crystal 1)	
16:30 - 17:25	Session (ICSC-3) - Ontology-based Systems (1 regular papers, 2 short papers) (Chair: Robert Mertens)	Session (AIMHC-4) - Computational Neuroscience & Human-Computer Interaction (1 regular paper, 3 short papers) (Chair: Bryan Chou)
17:25 - 17:40	Session (ICSC-4) - Text Classification and Analysis (3 regular papers) (Chair: Takafumi Nakanishi)	
17:40 - 18:30		Session (AIMHC-5) - Humanized Assistant & Knowledge and Data Engineering (2 regular papers, 1 short paper) (Chair: Bryan Chou)
18:30- 20:30	Reception in(Emerald Lounge, first floor)	

Tuesday, February 6		
Time (PT)\ Place	Crystal 1 + Virtual Room	Crystal 2 + Parallel Virtual Room (AIMHC 2024)
07:30 - 17:00	Registration	
07:30 - 08:30	Breakfast @Foyer (next to Crystal 1)	
8:30 - 9:50	Tutorial and Workshop on Generative AI (Chair: David Ostrowski)	Session (AIMHC-6) - Best Paper Candidates (4 regular papers) (Chair: Mira Kim)
9:50 - 10:10	Coffee break @Foyer (next to Crystal 1)	
10:10 - 11:10	Keynote 2: Jason H. Moore (Chair: Mira Kim)	
11:10 - 12:10	Keynote 3: Ramesh Srinivasan (Chair: Jenny Jin)	
12:10 - 13:10	Lunch @Cafe, first floor	

13:10 - 14:40	Panel on AI and Medicine (Plenary) (Chair: Jacob Shreve)	
14:40 - 15:00	Coffee break @Foyer (next to Crystal 1)	
15:00 - 15:55	Session (ICSC-7) - NLP (II) (1 regular paper, 1 short paper, 4 position papers) (Chair: Takafumi Nakanishi)	Session (AIMHC-7) - Intelligent Healthcare & AI Assisted Living (1 regular paper, 2 short papers) (Chair: Pauline N. Kawamoto)
15:55 - 16:20		Session (AIMHC-8) - Computational Medicine & Precision Medicine (2 short papers, 1 position paper) (Chair: Jenny Jin)
16:20 - 16:40	Session (ICSC-6) - Knowledge Representation and Processing (I) (3 regular paper, 2 short papers, 1 position paper) (Chair: Robert Reynolds)	Session (AIMHC-9) - Deep Learning (I) (1 regular paper, 2 short papers) (Chair: Jenny Jin)
16:40 - 18:05		
18:10 - 18:30	A chart bus will depart in front of the hotel at 18:10	
18:30 - 20:30	Banquet (University Club) (Chair: Kyle Li) A chart bus will depart in front of the UCI Club at 20:30	

Wednesday, February 7			
Time\ Place (PT)	Crystal 1 + Virtual Room	Crystal 2 + Parallel Virtual Room (ICSC 2024)	Crystal 3 + Parallel Virtual Room (AIMHC 2024)
07:30 - 17:00	Registration		
07:30 - 08:30	Breakfast @Foyer (next to Crystal 1)		
8:30 - 9:30	Keynote 4: Tinglong Dai (Chair: Bryan Chou)		

09:30 - 11:35	Session (ICSC-8) - Invited Papers I (5 papers) (Chair:Giovanni Pilato)	Session (ICSC-9) - Invited Papers II (4 papers) (Chair: Bryan Chou)	Session (AIMHC-10) - Robotic Intelligence & Computer Vision (2 regular papers, 3 short papers, 1 position paper) (Chair: Pauline N. Kawamoto)
11:35 - 11:50	Coffee break @Foyer (next to Crystal 1)		
11:50 - 13:05	Session (ICSC-10) - Knowledge Representation and Processing (II) (2 regular papers, 2 position papers) (Chair: Takafumi Nakanishi)	SMC Workshops (Chair: Giovanni Pilato)	Session (AIMHC-11) - Deep Learning (II) (2 regular papers, 1 short paper) (Chair: Gary Glesener)
13:05 - 14:25	Lunch @Cafe, first floor		
14:25 - 15:20	Session (ICSC-11) - Knowledge Extraction (1 short paper, 2 position papers) (Chair: Giovanni Pilato)	IKGRC Workshop (I) (Chair: Kouji Kozaki)	Session (AIMHC-12) - Invited Papers (3 papers) (Chair: Soo Kyung Bae)
15:20 - 15:40	Award Announcements (Chair: Kyle Li)		
15:40 - 16:00	Coffee break @Foyer (next to Crystal 1)		
16:00 - 17:30	IKGRC Workshop (II) (Hybrid) (Chair: Takanori Ugai)	SDI Workshop (Chair: Srividya Bansal)	SCSN Workshops (Chair: Giovanni Pilato)
17:30 - 18:15			

Detailed Sessions (IEEE ICSC 2024)

Session	Title	Authors	Type	Virtual/In-person
Session 1: Best Paper Candidates (I) (4 regular papers) (20 min/paper) (85 min) (Chair: TBD)	<i>Improving Document Classification by Integrating Human-Crafted Semantic Knowledge</i>	<i>Lubomir Stanchev and Zachary Weinfeld</i>	<i>Regular</i>	
	<i>AMP-BiLSTM: An Enhanced Highlight Extraction Method Using Multi-Channel Bi-LSTM and Self-Attention in Streaming Videos</i>	<i>Sheng-Jie Lin, Chien Chin Chen and Yung-Chun Chang</i>	<i>Regular</i>	
	<i>ReFrESH – Relation-preserving Feedback-reliant Enhancement of Subjective Content Descriptions</i>	<i>Magnus Bender, Tanya Braun, Ralf Möller and Marcel Gehrke</i>	<i>Regular</i>	
	<i>A Privacy-Preserving Edge Computing Solution for Real-Time Passenger Counting at Bus Stops using Overhead Fisheye Camera</i>	<i>Pardis Ghaziamin, Kairavi Bajaj, Nizar Bouguila and Zachary Patterson</i>	<i>Regular</i>	
Session 13: Best Paper Candidates (II) (2 regular papers) (20 min/paper) (45 min) (Chair: TBD)	<i>Unlocking the Emotional States of High-Risk Suicide Callers through Speech Analysis</i>	<i>Alaa Nfissi, Wassim Bouachir, Nizar Bouguila and Brian L. Mishara</i>	<i>Regular</i>	
	<i>Towards Automated Semantics-Driven Web Service Composition: Case Study on Question Answering Systems</i>	<i>Aleksandr Perevalov, Andreas Both and Mike Scherfner</i>	<i>Regular</i>	
Session 2: Image and Video Analysis (3 regular	<i>Class probability-guided Ensemble Learning-based Semantic Segmentation to Predict Cancerous Regions on Hematoxylin and Eosin Images</i>	<i>Sanghoon Lee, Sai Chandana Koganti, Inchan Hwang and MinJae Woo</i>	<i>Regular</i>	

papers, 1 short papers) (20 min/ regular paper) (15 min/ short paper) (75 min) (Chair: Ramazan Aygün)	<i>A Framework to Construct Financial Causality Knowledge Graph from Text</i>	<i>Ziwei Xu, Hiroya Takamura and Ryutaro Ichise</i>	<i>Regular</i>	
	<i>Anomaly Detection Through Graph AutoencoderBased Learning of Screenshot Image Logs</i>	<i>Yuki Ohkawa and Takafumi Nakanishi</i>	<i>Short</i>	
	<i>Supervised Semantic Segmentation of Murine THz Spectroscopy Images with Imprecise Annotations</i>	<i>Haoyan Liu, Nagma Vohra, Keith Bailey, Magda El-Shenawee and Alexander Nelson</i>	<i>Regular</i>	
Session 3: Ontology-based Systems (1 regular paper, 2 short papers) (20 min/ regular paper) (15 min/ short paper) (50 min) (Chair: Robert Mertens)	<i>Enabling Development of an Extensible, Multi-Perspective Ontology</i>	<i>Abha Moitra, Daniel Russell, Eric Mertens, Kit Siu, Paul Cuddihy, David Archer and Kevin Quick</i>	<i>Regular</i>	
	<i>A Context-Aware Framework for Analysing Automotive Vehicle Security</i>	<i>Teena Kumari, Abdur Rakib, Arkady Zaslavsky, Hesamaldin Jadidbonab and Valeh Moghaddam</i>	<i>Short</i>	
	<i>Semantic Computing for Organizational Effectiveness: From Organization Theory to Practice through Semantics-Based Modelling</i>	<i>Mena Rizk, Daniela Rosu and Mark Fox</i>	<i>Short</i>	
Session 4: Text Classification and Analysis (3 regular paper) (20 min/ regular paper) (60 min) (Chair: Takafumi Nakanishi)	<i>Investigating Questioner's Explicit Information Influences in Transformer-based Community Question Answering</i>	<i>Macedo Maia and Markus Endres</i>	<i>Regular</i>	
	<i>NORMY: Non-Uniform History Modeling for Open Retrieval Conversational Question Answering</i>	<i>Muhammad Shihab Rashid, Jannat Ara Meem and Vagelis Hristidis</i>	<i>Regular</i>	
	<i>Stable or Shaky? The Semantics of ChatGPT's Behavior Under Repeated Queries</i>	<i>Tasnia Ashrafi Heya, Ynes Ineza, Abdul Serwadda, Sayed Erfan Arefin and Godsgift Uzor</i>	<i>Regular</i>	

Session 11: Knowledge Extraction (1 short paper, 2 position papers) (15 min/ short paper) (10 min/ position paper) (35 min) (Chair: Giovanni Piliato)	An Open Source Application for Data Processing and Analysis of Mobile Networks over IP Multimedia Subsystem (IMS)	Maria Gabriela Lima Damasceno, Renata Kellen Gomes Dos Reis, Caio Bruno Bezerra De Souza, Jussif Junior Abularach Arnez and Tarcisio Fernandes	Position	
	TWIG: Towards pre-hoc Hyperparameter Optimisation and Cross-Graph Generalisation via Simulated KGE models	Jeffrey Sardina, John D Kelleher and Declan O'Sullivan	Short	
	Evaluating Tabular and Textual Entity Linking in Financial Documents	Rungsiman Nararatwong, Natthawut Kertkeidkachorn and Ryutaro Ichise	Position	
Session 5: NLP (I) (1 regular paper, 3 short papers) (20 min/ regular paper) (15 min/ short paper) (65 min) (Chair: Ramazan Aygün)	Semanformer: Semantics-aware Embedding Dimensionality Reduction Using Transformer-Based Models	Mallika Boyapati and Ramazan Aygün	Regular	
	<i>Transfer Learning and Lexicon-Based Approaches for Implicit Hate Speech Detection: A Comparative Study of Human and GPT-4 Annotation</i>	<i>Saad Almohaimeed, Saleh Almohaimeed and Ladislau Boloni</i>	Short	
	Temporal Analysis of Editorial Trends in Major Newspapers Following the Prime Minister's Speech	Taichi Ohno, Yusuke Hoshino and Takafumi Nakanishi	Short	
	Interacting LLMs: A Dive into Collaborative AI	Grant Cheng, Alyssa Adams, Martin Biehl, Olaf Witkowski, Luc Caspar and Oliver Wang	Short	
Session 7: NLP (II) (1 short paper, 4 position papers) (15 min/ short paper) (10 min/ position paper)	Urgency Detection in Social Media Texts Using Natural Language Processing	Navya Makkana and Islam Abm	Position	
	Functional Validation of Supervised Learning Tasks for Reproducible Machine Learning	Ayush Patel and Ramazan Aygün	Short	

(55 min) (Chair: Takafumi Nakanishi)	Exploring Current Challenges in Integrating NLP for Automating Regulatory Compliance: Towards Cross-Linguistic and Cross-Domain Dimensions	Ashley Caselli and Giuseppe Samo	Position	
	ParsyBot: Chatbot for Baskent University Related FAQs	Zeynep Karkiner, Begum Yaman, Begum Zengin, Feride Nursena Cavli and Mustafa Sert	Position	
	<i>Comprehending Emotional and Syntactic Cues in Reddit Suicidal Post</i>	<i>Salim Sazzed</i>	Position	
	<i>Diversity Measures: Domain-Independent Proxies for Failure in Language Model Queries</i>	<i>Noel Ngu, Nathaniel Lee and Paulo Shakarian</i>	<i>Regular</i>	
Session 6: Knowledge Representation and Processing (I) (1 regular paper, 3 short papers, 1 position paper) (20 min/ regular paper) (15 min/ short paper) (10 min/ position paper) (75 min) (Chair: Robert Reynold)	Scalable Semantic Non-Markovian Simulation Proxy for Reinforcement Learning	Kaustuv Mukherji, Devendra Parkar, Lahari Pokala, Dyuman Aditya, Paulo Shakarian and Clark Dorman	Regular	
	Detection of Latent Gender Biases in Data and Models Using the Approximate Generalized Inverse Method	Takafumi Nakanishi	Short	
	Veni, Vidi, Vici: Solving the Myriad of Challenges before Knowledge Graph Learning	Jeffrey Sardina, Luca Costabello and Christophe Guéret	Short	
	Enhancing Log Anomaly Detection through Knowledge Graph Integration	Guan-Fu Chen, Tai-Ju Yang and Chien Chin Chen	Position	
	Automatically Constructing Geospatial Feature Taxonomies from OpenStreetMap Data	Basel Shbita and Craig Knoblock	Regular	

	Unsupervised Ensemble Semantic Segmentation for Foreground-Background Separation on Satellite Image	Jaelen Tarry, Xishuang Dong, Xiangfang Li, Lijun Qian, Leah Chance, Philip Morrone and Stanley Wennedt Short	Short	
Session 10: Knowledge Representation and Processing (II) (2 regular papers, 2 position papers) (20 min/ regular paper) (10 min/ position paper) (60 min) (Chair: Takafumi Nakanishi)	Ethical Considerations in the Use of AI for Higher Education: A Comprehensive Guide	Zongxu Li, Ajay Dhruv and Vijal Jain	Regular	
	GLIMPSE of Future Power Grid Models	Armando Mendoza Sanchez and Sumit Purohit	Regular	
	Graphical and Textual Models Embedded in a Constructor-Driven Transformation	Johannes Schick, Marc Wagner and Wolfram-Manfred Lippe	Position	
	Representing the Interaction between Users and Products via LLM-assisted Knowledge Graph Construction	Julio Vizcarra, Shuichiro Haruta and Mori Kurokawa	Position	
Session 8: Invited Papers I (5 papers) (25 min/ paper) (125 min) (Chair: Giovanni Pilato)	Mapping Natural Language Interactions to Mobile User Interfaces	A.B. Siddique	Invited	
	A Study on Efficient Indexing for Table Search in Data Lakes	Ibraheem Taha, Matteo Lissandrini, Alkis Simitsis, Yannis Ioannidis	Invited	
	Designing Social Good Semantic Computing - Architectures for the Long Tail: Case Studies, Evaluation, and Challenges	Mayank Kejriwal	Invited	
	Functional Food Knowledge Graph-based Recipe Recommendation System Focused on Lifestyle-Related Diseases	Akio Kobayashi, Shotaro Mori, Akira Hashimoto, Tetsuo Katsuragi, Takahiro Kawamura	Invited	

	Guided Evolution of Dense Blocks with Attention for CheXpert with Cultural Algorithms	Mark Nuppnau, Khalid Kattan, R. G. Reynolds	Invited	
Session 9: Invited papers II (4 regular papers) (25 min/ paper) (100 min) (Chair: TBD)	Optimism and Pessimism in Database Query Optimisation	Sven Helmer, Peter T. Wood, Manuel Stuefer	Invited	
	Knowledge Graph Question Answering Systems based on Large Language Models	Caio Viktor S. Avila, Vania M.P.Vidal, Wellington Franco, Marco A. Casanova	Invited	
	Trend Extraction and Analysis via Large Language Models	Tommaso Soru, Jim Marshall	Invited	
	Semantics of Pilot Data and ML	Joseph R. Barr, Jon C. Haass	Invited	
The 2nd International Knowledge Graph Reasoning Challenge 2024 (IKGRC 2024) (Chair: TBD) (4 workshop papers) (15 min/ paper) (60 min)	Prediction of Actions and Objects through Video Analysis Using Stepwise Prompt	Tsukasa Hirano, Kengo Ozaki, Takeshi Morita	Workshop	
	Prediction of actions and places by the time series recognition from images with Multimodal LL	Tomohiro Ogawa, Kango Yoshioka, Ken Fukuda, Takeshi Morita	Workshop	
	Zero-Shot Query Experiments in Knowledge Graph Reasoning Challenge for Older Adults Safety	Ken Fukuda, Takanori Ugai, Shusaku Egami, Kyoumoto Matsushita	Workshop	
	Event Prediction in Event-Centric Knowledge Graphs Using BERT	Takanori Ugai, Shusaku Egami, Ken Fukuda	Workshop	
The 7th International Workshop on Semantic Data Integration (SDI '24)	NYC CrimeWatch: Crime Analysis Tool	Subham Kumar, Amarjeet Singh and Srividya Bansal	Workshop	

Detailed Sessions (IEEE AIMHC 2024)

Session	Title	Authors	Type	Virtual/In-person
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Session 1: Analytics of Medical & Health Related Big Data (2 regular paper, 1 short paper, 3 position papers) (20 min/ regular paper) (15 min/ short paper) (10 min/ position paper) (Chair: Soo Kyung Bae)	Enhanced Identification of Care Preference Documentation in Patients' Discharge Summaries Using Pre-trained Large Language Models	Saksham Arora and Inas Khayal	<i>Regular</i>	
	EMO-Music: A Music Therapy System Based on Physiological Signals and Deep Learning Emotion Recognition	Hanzhe Guo, Jiawen Zhang, Yueyao Jiang, Yifei Qi, Simeng Chen, Zhen Chen, Weiran Lin, Junwei Cao and Shuang Shou Li	<i>Short</i>	
	Textures and Networks of Healthy and Pathological Voice Signals	Tuan Pham	Position	
	Smartphone-based Architecture for Prolonged Monitoring of Gait	Louise Bart, Amine Bechorfa, Antoine Boutet, Jan Ramon and Carole Frindel	Position	
	Comparison of BERT Implementations for Enhanced Cancer Symptoms Extraction from Electronic Health Records	Nahid Zeinali, Alaa Albashayreh, Weiguo Fan and Stephanie Gilbertson White	Position	
	Machine Learning-Driven Predictions for Janus Kinase 3 Protein Drug Effectiveness	Awani Gadre, Sindhu Ghanta and Bharath Ramsundar	Regular	
Session 2: COVID-19 Research & Cardiovascular Disease (1 regular papers, 3 short papers) (20 min/ regular paper) (15 min/ short paper) (Chair: TBD)	Deep Residual Dilated Convolutional Learning for Detection of Large Vessel Occlusion in Ischemic Stroke Patients	Rohan Chatterjee, Dikshant Sagar, Farnaz Mohammadi, Arpit Vaishya, Mohammad Pourhomayoun, Manveen Kaur, Jung Soo Lim and Navid Amini	<i>Regular</i>	
	Modeling and Feature Engineering of COVID-19 Statistical Trends Using Social Media Responses	Kiev Glasscock, Antone Evans, Yingyuan Yang and Sunshin Lee	Short	Virtual
	Enhancing Data Accessibility in COVID Research - A Synthetic Data Generator for the RADx Data Hub	Asiyah Ahmad, Griffin Roupe, Leigh Ann Samsa, Ashok Krishnamurthy and Robert Hubal	Short	
	Detecting Sinus Bradycardia From ECG Signals Using Signal Processing And Machine Learning	Rishi Salvi	Short	
Session 3: Chronic Diseases	Prediction of BPSD using environmental and vital sensor data	Hyuta Onuma, Naoya Tokiwa, Junichi Shibata, Toshikazu Sizuki, Takehiko Kashiwagi, Tatsuya Moe,	<i>Regular</i>	

(1 regular paper, 2 short papers, 2 position papers) (20 min/ regular paper) (15 min/ short paper) (10 min/ position paper) (Chair: Gary Glesener)		Kaito Kamura, Tatsunoshin Shinmi, Shunichi Tano and Yasuhiro Minami		
	Vital Sign Forecasting for Sepsis Patients in ICUs	Anubhav Bhatti, Yuwei Liu, Chen Dan, Bingjie Shen, San Lee, Yonghwan Kim and Jang Yong Kim	Short	
	Analysis of EEG Signals for Predicting Neurological Recovery in Post-Cardiac Arrest Comatose Patients	Shria Guntunur, Shreya Varma, Shubangi Saxena, Supreeta Sagere and Gowri Srinivasa	Short	
	Exploration of multimorbidity patterns of chronic diseases in patients with atrial fibrillation or flutter(AFF) using BEHRT and BERTopic	Sookyung Bae, Bomi Park, Hwiyoung Kim and Yeonjae Kim	<i>Position</i>	
	Extending Machine Learning-Based Early Sepsis Detection to Different Demographics	Surajsinh Parmar, Tao Shan, San Lee, Yonghwan Kim and Jang Yong Kim	<i>Position</i>	
Session 4: Computational Neuroscience & Human-Computer Interaction (1 regular paper, 3 short papers) (20 min/ regular paper) (15 min/ short paper) (Chair: TBD)	Incorporating Motor Imagery-Controlled Gaming into Paralysis Rehabilitation	Vaishnavi More and Kiran George	<i>Regular</i>	
	Label-Efficient Sleep Staging Using Transformers Pre-trained with Position Prediction	Sayeri Lala, Hanlin Goh and Christopher Sandino	Short	
	LSTM Model for Brain Control Interface Based-Lie Detection	Mohammad Affan Khalil, Michael Babinec and Kiran George	<i>Short</i>	
	Brain-Computer Interface for Color Perception in Gaming using AI and ML Techniques	Jinendra Gambhir, Mohammad Khalil and Kiran George	<i>Short</i>	
Session 5: Humanized Assistant & Knowledge and Data Engineering (2 regular papers, 1 short paper)	Comprehensive Personal Health Knowledge Graph for Effective Management and Utilization of Personal Health Data	Rasha Hendawi and Juan Li	<i>Regular</i>	Virtual
	AI Chatbot for Generating Episodic Future Thinking (EFT) Cue Texts for Health	Sareh Ahmadi and Edward Fox	<i>Regular</i>	

(20 min/ regular paper) (15 min/ short paper) (Chair: TBD)	AI-Powered Social Determinants of Health Extraction from Patient Records: A GPT-Based Investigation	Fatemeh Shah-Mohammadi and Joseph Finkelstein	<i>Short</i>	
Session 6: Best Paper Candidates (4 regular papers) (20 min/paper) (Chair: Mira Kim)	Enhancing Drug Safety and Efficacy: Wasserstein Distance-Based Graph Kernel for Drug Property Prediction	Mohammed Aburidi and Roummel Marcia	<i>Regular</i>	
	Differentially-Private Federated Learning with Non-IID Data For Surgical Risk Prediction	Bjarne Pfitzner, Max M. Maurer, Axel Winter, Christoph Riepe, Igor M. Sauer, Robin van de Water and Bert Arnrich	<i>Regular</i>	
	Deep Learning Image Analysis of Macular Optical Coherence Tomography Angiography Images for Detection of Progression in Glaucoma	Aylin Mousavian, Jabiz Jarkaneh, Mohammad Pourhomayoun, Manveen Kaur, Rohan Chatterjee, Sajad Besharati, Kouros Nouri-Mahdavi and Navid Amini	<i>Regular</i>	
	Smart Medication Management: Enhancing Medication Adherence with Automatic Pill Dispensing into a Smart Cup	Vinay Peddisetti, Pavan Kumar Kandregula, Joel Anil John, Suseela Poomdla, Kiran George and Anand Panangadan	<i>Regular</i>	
Session 7: Intelligent Healthcare & AI Assisted Living (1 regular paper, 2 short papers) (20 min/ regular paper) (15 min/ short paper) (Chair: Pauline N. Kawamoto)	Interactive-Wear: An intelligent watch application to aid memory for intentions and everyday functioning in older adults with cognitive impairments	Sasha Neil Pimento, Hritvik Agarwal, Bryan Minor, Saumya Karia, Diane Cook, Maureen Schmitter-Edgecombe, Sarah Tomaszewski Farias, Rahma Lorabi and Alyssa Weakley	Regular	
	Personalized Health Assistant with Reinforcement Learning	Jennifer Jin, Mira Kim and Soo Dong Kim	Short	
	Design of a Multisensor System for a Smart Cooking Assistant	Gustavo Ruiz, Sai Chaitanya Kilambi, Pratishtha Soni, Kiran George and Anand Panangadan	Short	
Session 8: Computational Medicine & Precision				

Medicine (2 short papers, 1 position paper) (15 min/ short paper) (10 min/ position paper) (Chair: Jenny Jin)	Towards Better Debriefing through Context-aware Video Segmentation in Standardized Patient Encounter Ear Exams	Sol Vedovato, Michael J. Holcomb, Krystle K. Campbell, Daniel J. Scott, Thomas O. Dalton, Gaudenz Danuser, Andrew R. Jamieson and Shinyoung Kang	Short	
Session 9: Deep Learning (I) (1 regular paper, 2 short papers) (20 min/ regular paper) (15 min/ short paper) (Chair: Jenny Jin)	The Multi-Tier Artificial Intelligence Prediction Architecture: A Novel Approach to Intracranial Hemorrhage Detection	Shiven Balaji and Sindhu Ghanta	Regular	
	Forecasting Exercise Exertion Levels Using LSTM Modeling of Wearable Physiological Data	Aref Smiley and Joseph Finkelstein	Short	
	Predicting Incipient Symptom Deterioration from Serial Patient-Reported Data During Cancer Chemotherapy Course Using LSTM Modeling	Joseph Finkelstein, Aref Smiley, Christina Echeverria and Kathi Mooney	Short	
Session 10: Robotic Intelligence & Computer Vision (2 regular papers, 3 short papers, 1 position paper) (20 min/ regular paper) (15 min/ short	Deploying a Sustainable Deep Learning Pipeline for Poison Ivy Image Classification	Sumin Cho, Wonjun Park, Subin Kim, Jiyeon Lee, Jack Mahedy, Nebey Gebresalssie and Minji Lee	Short	
	Parkinson's Disease Classification from Scanned Images of Spiral Drawings	Anusid Wachiracharoenwong, Panyawut Sri-lesaranusorn, Decho Surangsirat, Pattara Leelaprute, Pattamon Panyakaew and Roongroj Bhidayasiri	Position	
	Robotic Healthcare Companion for the Elderly and the Differently Abled with Indoor Human Following and Fall Detection Capability	Savin Seneviratne, Jiana De Zoysa, Sithara Senarathna, Sajith Pallemulla and Chandula Padmasiri	Regular	

paper) (10 min/ position paper) (Chair: Pauline N. Kawamoto)	Medical Surgery Stream Segmentation to Detect and Track Robotic Tools	Syed Abdul Khader, Vysakh Ramakrishnan, Arian Mansur, Chi-Fu Jeffrey Yang, Lana Schumacher and Sandeep Manjanna	Regular	
	Multimodal Interaction in an Adaptive Dementia Exercise Robot	Nadine Mirkovic and Christian Wolff	Short	
	Mapping the Invisible: Face-GPS for Facial Muscle Dynamics in Videos	Juni Kim, Zhikang Dong and Pawel Polak	Short	
Session 11: Deep Learning (II) (2 regular papers, 1 short paper) (20 min/ regular paper) (15 min/ short paper) (Chair: Gary Glesener)	A Machine Learning Approach to Solving Biochemical Systems	Joshua Ologbonyo, Emmanuel Adara and Roger Sidje	Short	
	Neural Network Model for Tissue Thickness Estimation	Henna Jethani and Zoya Popovic	Regular	
	3D Reconstruction of the Carotid Artery from Handheld Ultrasound Videos	Omkar Kulkarni, Abhishikta Bandyopadhyay and Tim Oates	Regular	
Session 12: Invited Papers (3 papers) (20 min/ paper) (Chair: Soo Kyung Bae)	Reducing Diagnostic Uncertainty Using Large Language Models	Joseph Finkelstein, Wanting Cui, Keaton Morgan, Kensaku Kawamoto	Invited	
	Explainable Multiple Receptive Attention Network for Expert Cardiologist Compatible Incomplete Kawasaki Disease Diagnosis on Echocardiography	Kyungsu Lee, Haeyun Lee, Moon Hwan Lee, Sewoong Kim, Jaeseung Yang, Youngsoon Eun, Lucy Youngmin Eun, and Jae Youn Hwang	Invited	
	Evaluating and Improving the Performance and Racial Fairness of Algorithms for GFR Estimation	Zhang, Linying	Invited	