

Symposium Program

Computer Sciences and Information Technologies [CIT]

Symposium Chair: Jeho Park (Harvey Mudd College)

Co-Chairs: Eunjee Song (Baylor University), Woontack Woo (KAIST)

August 10, Thursday, 8:00-9:40AM at Potomac IV	
CIT/EEC Interdisciplinary Session: Cybersecurity	
Chair: Young Choi (Regent University), Co-Chair: Tom Oh (Rochester Institute of Technology)	
8:00 AM	[Invited] Effectiveness of TM Forum and LoRa Alliance Resources Usage in Communications Security Research and Education Young Choi (Regent University)
8:20 AM	Assembly Level Clock Glitch Insertion Attack into An XMEGA MCU Chansu Yu (Cleveland State University)
8:40 AM	The Role of IT/IS in International Marketing Research: Antecedents, Processes, and Outcomes Jin Ho Kim (Old Dominion University)
9:00 AM	Internet of Everything Security Threats Jungwoo Ryoo (Pennsylvania State University-Altoona)
9:20 AM	Increasing Efficiency of Android Malware Analysis Tae (Tom) Oh (Rochester Institute of Technology)
August 10, Thursday, 1:20-3:20PM at Potomac IV	
CIT Session: Machine Learning and Data Science	
Chair: Jeongkyu Lee (University of Bridgeport)	
1:20 PM	[Invited] Mining Social Networks Using Topology Jeongkyu Lee (University of Bridgeport)
1:40 PM	Massive Scale Deep Learning for Predicting Extreme Climate Events Sookyung Kim (Georgia Institute of Technology)
2:00 PM	Automatic paragraph generation using neural networks Chulwoo Kim (Pace University)
2:20 PM	Mining Course Trajectories of Successful and Failure Students: An Extended Abstract Jin Soung Yoo (IPFW)
2:40 PM	Robotic Process Automation and Cognitive John Lee (KPMG)
3:00 PM	Graph-based Attention Model for Healthcare Representation Learning Edward Choi (Georgia Institute of Technology)
August 10, Thursday, 1:20-3:20PM at Potomac I	
CIT/CEA Interdisciplinary Session: Connected and Automated Vehicles (CAV-1)	
Chair: Yu Seung Kim (Ford Motors), Co-Chair: Guiling Wang (NJIT)	
1:20 PM	[Invited] Intelligent Trucking System - Connected and Automated Sungbok Kwak (FLEETUP)
2:00 PM	An efficient key establishment scheme for VANETs Kiho Lim (University of South Dakota)
2:20 PM	Speed Harmonization using Optimal Control Algorithm under Mixed Traffic of Automated Vehicles and Human Driven Vehicles Sungah Hong (University of Virginia)
2:40 PM	An Effects Analysis of Logistics Collaboration: The Case of Pharmaceutical Supplies in Seoul Dongju Park (University of Seoul)
3:00 PM	Simulation-based Framework for Connected and Automated Vehicle (CAV) Impact Assessment Joyoung Lee (NJIT)
August 10, Thursday, 3:40-5:40PM at Potomac I	
CEA/CIT Interdisciplinary Session: Connected and Automated Vehicles (CAV-2)	
Chair: Joyoung Lee (NJIT), Eonsoo Lee (NJIT)	

3:40 PM	[Invited] Distributed Intersection Management Protocol for Driver's Safety, Efficiency, and Comfort. Gulling Wang (NJIT)
4:20 PM	Study on Infra-less Authentication for Inter-Vehicular Communications Yu Seung Kim (Ford Motors)
4:40 PM	Integrated Simulation Framework for Evaluating Safety Performance of Connected and Automated Vehicles Lian Cui (University of Virginia)
5:00 PM	Older Adult Crashes Associated with Roadway Features Jun-Seok Oh (Western Michigan University)
5:20 PM	Multi-Objective Optimization Framework for Cooperative and Automated Vehicle Platooning Eonsoo Lee (NJIT)

August 10, Thursday, 3:40-5:40PM at Washington B
CEA/CIT Interdisciplinary Session: Smart City
Chair: Soolyeon Cho (NCSU)

3:40 PM	[INVITED] Shared Autonomous Electric Mobility for Smart Cities Donna Chen (University of Virginia)
4:20 PM	Assessment of Roadway Reservation System towards Smart City Brian Park (University of Virginia)
4:40 PM	Before Sunrise or Before Midnight?: Tackling Temporally Uncertain Contextual Effects in Measuring Nighttime Urban Vitality Young-Long Kim (Clark University)
5:00 PM	Characteristics of Artificial Intelligence Algorithms in Building Systems Yeobeom Yoon (North Carolina State University)
5:20 PM	Adaptive Façade: Smart Building for Improved Energy Efficiency and Human Comfort Majd Hijazi (North Carolina State University)

August 11, Friday, 8:00-9:40AM at Potomac IV
CIT Session: Digital Experience, Education, and Entertainment
Chair: Si Jung Kim (Univ of Nevada, Las Vegas)

8:00 AM	[Invited] The High Roller - A Las Vegas STEAM Paper Folding Si Jung Kim (University of Nevada, Las Vegas)
8:20 AM	Scaling the Production of Complex Data Visualization Using Visual Programming Daniel Eun (Pegasystems)
8:40 AM	Managing Online Disinhibition with Identity Communication Hyerin Kim (University of Texas at Austin)
9:00 AM	A Study of Challenges and Practices with Undergraduate Capstone Projects Sook Ha (Virginia Military Institute)
9:20 AM	Teaching HPC and Big Data to non-CS students in Liberal Arts Colleges Jeho Park (Harvey Mudd College)

August 11, Friday, 1:20-3:20PM at Potomac IV
CIT Session: AR/VR
Chair: Woontack Woo (KAIST)

1:20 PM	[Sponsor] Introduction to NAVER Labs Chongmok Park (NAVER) (Woontack Woo, KAIST)
1:30 PM	[Invited] Digital Avatars, a second identity for VR/AR Jihun Yu (BinaryVR)
1:50 PM	[Invited] Social Influence of Virtual Humans in Mixed Reality Applications Sin-Hwa Kang (USC)
2:10 PM	The AR Strip: A City Based Augmented Reality Educational Curriculum Si Jung Kim (University of Nevada, Las Vegas)
2:30 PM	Creating Virtual Culture for Museum and Art Kyungjin Yoo (University of Maryland)

2:50 PM	Augmented Experience: Beyond Augmented Reality Woontack Woo (KAIST)
3:00 PM	<p>Speed Talks:</p> <p>Depth Estimation of a 3D Face Model from a 2D Face Image Seong Kong (Sejong University)</p> <p>“Say hello to my little friend” Towards Utilizing Social Media for Understanding Taboo Topics Albert Park (University of Utah)</p> <p>Borderless Marker Detection for Augmented Reality Eun Young Ahn (Hanbat National University)</p> <p>Basics of Cyber Security for Small and Medium Size Enterprises Sungyong In (Ichthus International Law PLLC)</p> <p>Writing a new song using AI Taewan Ryu (Cal State University, Fullerton)</p> <p>A Case Study of Reengineering a Database Application with Model-View-Controller (MVC) and 3-Layered Architecture Hong Jung (Southern Illinois University)</p> <p>MVC Architecture-Driven Software Reengineering: A Case Study of Modernizing a Bank System of Java Application Yeonhoon Park (Southern Illinois University)</p> <p>Methods to Computer Vision's Madness: A Comparative Analysis of Real-Time Appearance and Feature-Based Object Recognition Techniques Bum Mook Oh (Univ of Washington)</p> <p>OCL-Based Validation of Security and Timing Requirements Eunjee Song (Baylor University)</p> <p>Architecture of Web Objects enabled Self-Directed Ubiquitous Learning Ilyoung Chong (Hankuk University of Foreign Studies)</p> <p>So You Think You Can Dance: EEG Signal Controlled Nao Robots Sudhir Shenoy (University of Virginia)</p>

August 11 Friday, 3:40-5:40PM at Independence A

CIT Poster Session

Chair: Eunjee Song (Baylor University)

CIT-P01	Depth Estimation of a 3D Face Model from a 2D Face Image Seong Kong (Sejong University)
CIT-P02	“Say hello to my little friend” Towards Utilizing Social Media for Understanding Taboo Topics Albert Park (University of Utah)
CIT-P03	Borderless Marker Detection for Augmented Reality Eun Young Ahn (Hanbat National University)
CIT-P04	Basics of Cyber Security for Small and Medium Size Enterprises Sungyong In (Ichthus International Law PLLC)
CIT-P05	Writing a New Song Using AI Taewan Ryu (Cal State University, Fullerton)
CIT-P06	A Case Study of Reengineering a Database Application with Model-View-Controller (MVC) and 3-Layered Architecture Hong Jung (Southern Illinois University)
CIT-P07	MVC Architecture-Driven Software Reengineering: A Case Study of Modernizing a Bank System of Java Application Yeonhoon Park (Southern Illinois University)
CIT-P08	Methods to Computer Vision's Madness: A Comparative Analysis of Real-Time Appearance and Feature-Based Object Recognition Techniques Bum Mook Oh (Univ of Washington)
CIT-P09	OCL-Based Validation of Security and Timing Requirements Eunjee Song (Baylor University)
CIT-P10	Architecture of Web Objects enabled Self-Directed Ubiquitous Learning Ilyoung Chong (Hankuk University of Foreign Studies)
CIT-P11	So You Think You Can Dance: EEG Signal Controlled Nao Robots Sudhir Shenoy (University of Virginia)

August 12, Saturday, 8:00-9:40AM at Potomac IV

CIT Session: Optimization and Software Engineering

Chair: Sam Chung (Southern Illinois Univ)

8:00 AM	[Invited] From Programming to DevOps in Java Sam Chung (Southern Illinois University)
8:20 AM	Simulation of yo-yo Effect to Detect Data Flow Anomalies Jeong Yang (Texas A&M University-San Antonio)

8:35 AM	Fast Multiplication Algorithm by Clearing Leading-zeros in Binary Numbers Donghoon Kim (Arkansas State University)
8:50 AM	Software Reengineering a Legacy Game Application with Model-View-Controller (MVC) Architecture, Unit Testing, and Input Data Validation Shane Mueller (Southern Illinois University)
9:05 AM	Social community detection in networks Jongeun Kim (University of Florida)
9:20 AM	Analysis of Pathfinding Heuristics in Hybrid Charging of Rechargeable Wireless Sensor Networks <u>Rory McDaniel</u> and Hwajung Lee (Radford University)