

Cyber-Physical Systems Security Workshop

October 18-19, 2019

University of Rhode Island, Kingston, RI

web.uri.edu/dura/2019workshop

THE
UNIVERSITY
OF RHODE ISLAND
COLLEGE OF
ENGINEERING

Workshop Program

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The electrical grid is arguably the most essential infrastructure in modern society since most critical sectors are inherently contingent on reliable supply of electricity. As the electrical grid becomes increasingly “smarter”—more integrated with control systems, communication technologies, and computer processing—it has also become more vulnerable to both cyber and physical threats. In addition to research and technology development to improve the security, resilience, and reliability of the grid, a strong and talented workforce can lessen vulnerabilities to such a critical infrastructure.

This two-day Cyber-Physical Systems Security Workshop on October 18 and 19, 2019 will foster communications and discussions among different communities from academia, industry, and government to discuss and outline the important opportunities and challenges in this critical field, ranging from fundamental research, technology innovation, and workforce and outreach development.

This Workshop includes the following two themes, with focused keynote addresses, panels, and breakout group discussions:

The theme of the first day (October 18, 2019) is “Smart Grid Security: Science and technology advancements and challenges”. It will provide a platform for industry and government to present the smart grid vulnerabilities they are facing and discuss the current approaches being taken to mitigate threats, as well as future opportunities. Meanwhile, academia will be able to give industry and government insights into the new, innovative and transformative research being done in order to influence technology transformation, adoption, and policy making.

The theme of the second day (October 19, 2019) is “Cyber-physical Systems Security: Education and workforce development”. It is well known that a strong and talented labor force can lessen vulnerabilities to critical infrastructure; however, there is a significant shortage of qualified professionals in the field of cyber-physical systems security. Therefore, the emphasis of the second day will be to facilitate in depth and engaging discussions between academia, industry, and government to develop strategies for tackling the workforce shortage.

For more information please visit our website at <https://web.uri.edu/dura/2019workshop/>



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Workshop Agenda

Friday, October 18th, 2019
Memorial Union Ballroom, University of Rhode Island

Theme of Day 1:

Smart Grid Security: Science and Technology Advancements and Challenges

7:15 am to 8:00 am	Continental Breakfast Opening Ceremony <i>Master of Ceremonies: Haibo He, University of Rhode Island</i>
8:00 am to 8:30 am	<i>David M. Dooley, President, University of Rhode Island</i> <i>Peter J. Snyder, Vice President of Research and Economic Development, University of Rhode Island</i> <i>Raymond M. Wright, Dean, College of Engineering, University of Rhode Island</i>
8:30 am to 9:20 am	Keynote Address: Demystifying Smart Grid Cyber Security <i>Session Chair: Katharine Flynn, University of Rhode Island</i> <i>Mukund Ravipaty, Director, Enterprise Security Architecture, National Grid</i>
9:20 am to 10:10 am	Keynote Address: Resilient, Cyber-Physical Secure Electrical Systems for the Navy and Marine Corps <i>Session Chair: Haibo He, University of Rhode Island</i> <i>Michele Anderson, Office of Naval Research, Program Manager</i>
10:10 am to 10:30 am	Coffee Break Panel 1: Smart Grid Security: Opportunities and Challenges <i>Moderator: Chee-Wooi Ten, Michigan Technological University</i> <i>George Baker, Harvard University and Co-Founder of VCharge</i> <i>Jianhui Wang, Southern Methodist University, Editor-in-Chief of IEEE Transactions on Smart Grid</i> <i>Masood Parvania, University of Utah, ONR DURA</i> <i>Michael Brawner, CONFORM C5I Systems Capability and Technology Team Lead, General Dynamics Electric Boat</i> <i>B. Joey Souza, Scientist, Naval Information Warfare Center PAC</i>
10:30 am to 12:00 pm	
12:00 pm to 1:00 pm	Lunch Keynote Address: Resilience by Design: Perspectives on Grid Security from Alaska and the Arctic <i>Session Chair: Aranya Chakraborty, North Carolina State University</i> <i>Gwen Holdmann, Director of Alaska Center for the Energy and Power</i>
1:00 pm to 1:50 pm	
1:50 pm to 2:40 pm	Keynote Address: Cyber-Physical System Security of the Power Grid <i>Session Chair: Lei Wu, Stevens Institute of Technology</i> <i>Chen-Ching Liu, Director of Power and Energy Center, Virginia Tech</i>
2:40 pm to 3:00 pm	Coffee Break
3:00 pm to 5:00 pm	Poster and Networking Session
5:00 pm to 7:00 pm	Banquet <i>Fascitelli Center for Advanced Engineering, University of Rhode Island</i>

Workshop Agenda

Saturday, October 19th, 2019

Fascitelli Center for Advanced Engineering, University of Rhode Island

Theme of Day 2:

Cyber-Physical Systems Security: Education and Workforce Development

7:30 am to 8:30 am	Continental Breakfast
	Keynote Address: National Institute for Undersea Vehicle Technology: Focus Areas and Workforce Development <i>Session Chair: Yan (Lindsay) Sun, University of Rhode Island</i>
8:30 am to 9:20 am	<i>Erik Brine, Executive Director, National Institute for Undersea Vehicle Technologies</i> <i>Arun Shukla, Co-Director, National Institute for Undersea Vehicle Technologies</i>
	Keynote Address: Workforce and Economic Development Initiatives within the Defense Cluster <i>Session Chair: Dave Kring, Senior VP of Science and Technology, Navatek LLC.</i>
9:20 am to 10:10 am	<i>Molly Donohue Magee, Executive Director, Southeastern New England Defense Industry Alliance (SENEDIA)/Maritime Cybersecurity Center/Undersea Technology Innovation Consortium</i>
10:10 am to 10:30 am	Coffee Break
	Panel 2: Building a Workforce for Cyber-Physical Systems Security <i>Moderator: Erik Brine, Executive Director, National Institute for Undersea Vehicle Technologies</i>
10:30 am to 12:00 pm	<i>Jessica Mayernik, RI Department of Labor & Training - Real Jobs RI</i> <i>CDR Joseph Benin, U.S. Coast Guard Academy</i> <i>Julian L. Alssid, Vice President of Workforce Partnerships, Community College of Rhode Island</i> <i>Nathan Johnson, Arizona State University, ONR DURA</i> <i>Stephanie Murphy, Navatek LLC. and University of Rhode Island, ONR DURA</i>
12:00 pm to 1:00 pm	Lunch
	Keynote Address: Education and Workforce Development in Cyber-Physical Security for Autonomous Systems: Perspective from a Naval Research Company <i>Session Chair: Tao Wei, ONR YIP, University of Rhode Island</i>
1:00 pm to 1:30 pm	<i>Dave Kring, Senior VP of Science and Technology, Navatek LLC.</i>
	Keynote Address: Including Physical Systems into Cyber Security Education <i>Session Chair: Stephanie Murphy, Navatek LLC. and University of Rhode Island, ONR DURA</i>
1:30 pm to 2:20 pm	<i>Anthony R. Shaw Jr., Scientist, Naval Information Warfare Center PAC</i>
2:20 pm to 2:40 pm	Coffee Break
	Breakout Session
2:40 pm to 4:00 pm	Group 1: Research innovation <i>Moderator: Chen-Ching Liu, Director of Power and Energy Center, Virginia Tech</i> Group 2: Technology advancement & adoption <i>Moderator: Dave Kring, Senior VP of Science and Technology, Navatek LLC.</i> Group 3: Workforce and education <i>Moderator: Nathan Johnson, Arizona State University, ONR DURA</i>
4:00 pm to 4:30 pm	Breakout Session Reports
4:30 pm to 4:45 pm	Closing Remarks

Poster Session

Poster	Title	Authors	Affiliation
1	Enhancing the Security and Resiliency of Cyber-Physical Systems	Dr. Konstantinou Group: A. Sayghe, X. Liu, I. Zografopoulos, F. Matloob, D. Bauer	FAMU-FSU College of Engineering
2	Graduate Certificate in Ethics and Emerging Military Technology	Thomas Creely	U.S. Naval War College
3	RAINCOAT: RANdomization of Network Communication in Power Grid Cyber INfrastructure to Mislead Attackers	Hui Lin	University of Nevada
4	Enhancing Smart Grid Resilience Using Software-Defined Networking	Hui Lin	University of Nevada
5	Robust Frequency Control of Power Systems under Time-varying Loads	Zhenhua Wang, Haibo He, Yan Sun	University of Rhode Island
6	Constrained EV Charging Scheduling Based on Safe Deep Reinforcement Learning	Hepeng Li, Zhiqiang Wan, Haibo He	University of Rhode Island
7	PMU Data-based Cyber-attack Detection and Mitigation in Transmission and Distribution Systems	Ying Zhang, Xinan Wang, Jianhui Wang	Southern Methodist University
8	Flexible Cyberattack Detection and Moving-Target-Defense for Distribution Systems	Mingjian Cui, Jianhui Wang	Southern Methodist University
9	ICS/SCADA Device Recognition: A Hybrid Communication-Patterns and Passive-Fingerprinting Approach	Alaa Al Ghazo, Ratnesh Kumar	University of Hartford, Iowa State University
10	A2G2V: Automatic Attack Graph Generation and Visualization and Its Applications to Computer and SCADA Networks	Alaa Al Ghazo, Ratnesh Kumar	University of Hartford, Iowa State University
11	Automated Switching Operation For Resilience Enhancement Of Distribution Systems	Mohammad Mehdi Hosseini, Masood Parvania	University of Utah
12	Automated Resilience Enhancement of Critical Loads Against Hurricanes Using Distributed Energy Resources	Hieu Trung Nguyen, John Muhs, Masood Parvania	University of Utah
13	Domain-Adversarial Transfer Learning for Robust Intrusion Detection in the Smart Grid	Yongxuan Zhang, Jun Yan	Concordia University
14	Quantum-Sim: An Open-Source Co-Simulation Platform for Research on Secure Quantum Key Distribution in Smart Grid Communications	William Lardier, Quentin Varo, Jun Yan	Concordia University
15	Cyber-Attack Recovery Strategy for Smart Grid	Fanrong Wei, Zhiqiang Wan, Haibo He	University of Rhode Island

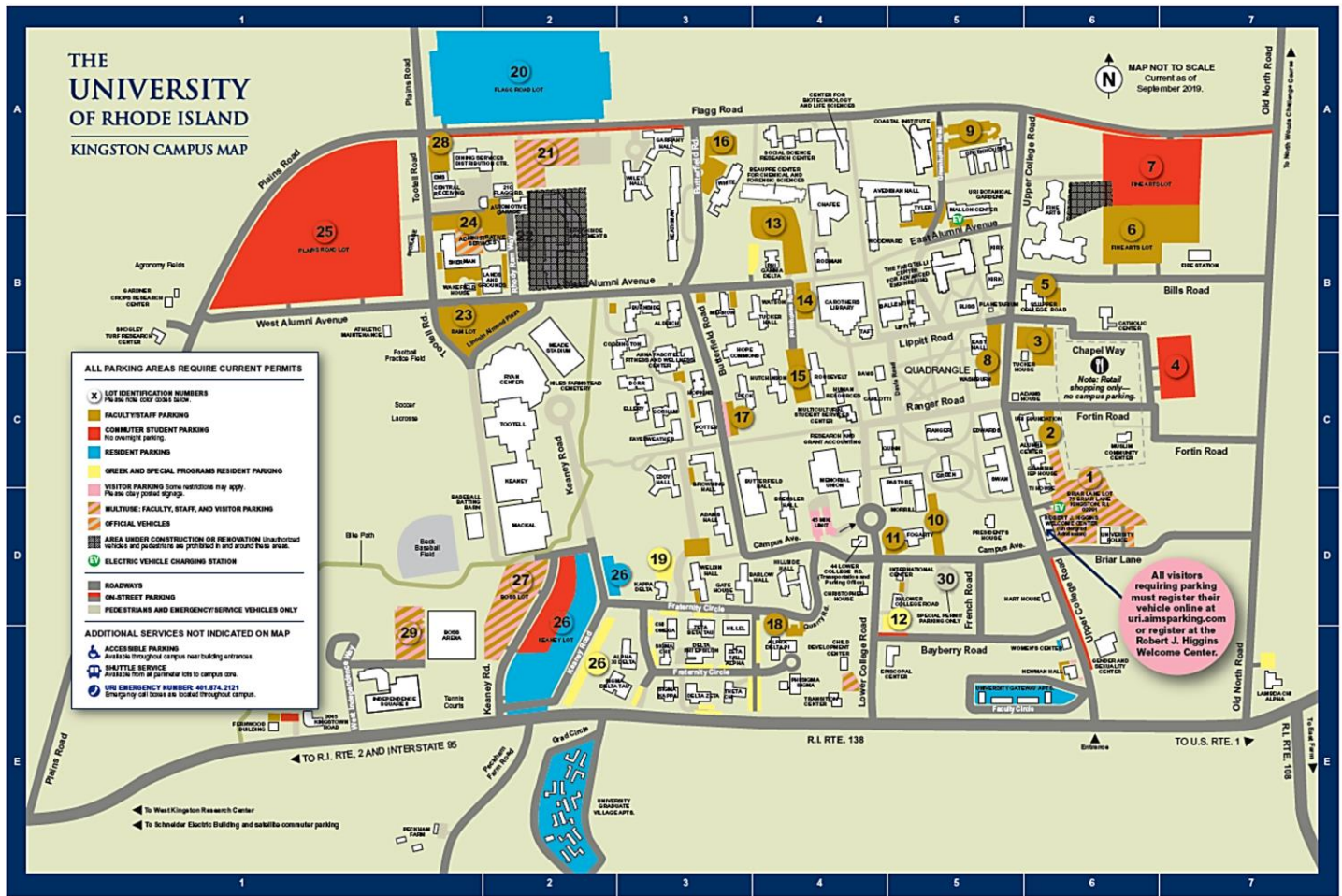
Poster Session

Poster	Title	Authors	Affiliation
16	PCONV: A Desirable Sparsity Dimension for Real-time Acceleration -From Algorithm to Framework	Xiaolong Ma, Fu-Ming Guo, Wei Niu, Bin Ren, Yanzhi Wang	Northeastern University
17	Cybersecurity of Operational Technology in Electric Grids	Shammya Saha, Raksha Ramakrishna, Teklemariam Tesfay, Gary Morris, Anna Scaglione, Nathan Johnson	Arizona State University
18	Protection, Sensing and Monitoring of Direct-Current (DC) Power Networks and Smart Grids	Yucheng Zhang	Old Dominion University
19	Intelligent Control in Networked Cyber-Physical Systems	Xiangnan Zhong	Florida Atlantic University
20	Event-triggered Learning in Partial Observable Cyber-Physical Environment	Xiangnan Zhong	Florida Atlantic University
21	Dispatchability Limits for PV Generation in Unbalanced Distribution Networks	Mohammad Ramin Feizi, Shengfei Yin, Mohammad Khodayar	Southern Methodist University
22	Decentralized Unbalanced Operation of Networked Microgrids in Distribution Networks	Abdulraheem Alobaidi, Mohammad E. Khodayar	Southern Methodist University
23	Cyber-Physical Attacks Recovery in Smart Grids: Security, Resiliency, and Interdependency	Wei Sun	University of Central Florida
24	Cloud Based Intrusion Detection and Prevention System for Microgrids	Jonathon Brugman, Mohammed Khan, Sneha Kasera, Masood Parvania	University of Utah
25	Cyber Deception for Securing SCADA Energy Systems (Decepti-SCADA)	B. Joey Souza	Naval Information Warfare Center
26	Reconfigurable and Dynamic Microgrids with Interdependencies between Cyber and Physical Networks	Yuhua Du, Xiaonan Lu, Jianhui Wang, Yuxi Men	Temple University, Southern Methodist University
27	Optimal Offloading for Dynamic Compute-Intensive Applications in Wireless Networks	Bin Li	University of Rhode Island
28	Dynamic Loading For Multi-user Virtual Reality Over Wireless Networks	Xiangqi Kong, Bin Li	University of Rhode Island
29	Networked Microgrids for Cyber-Physical Systems Security	Bo Chen, Feng Qiu, Jianzhe Liu, Yichen Zhang, Shijia Zhao	Argonne National Laboratory
30	Enabling Integrated Control of Interdependent Smart Grid Systems using Software-Defined Network (SDN) Technology	Xin Liu, Yicheng Zhang, Yanfeng Qu, Christopher Hannon, Jiaqi Yan, Dong Jin, Bo Chen	Illinois Institute of Technology Argonne National Laboratory

Poster Session

Poster	Title	Authors	Affiliation
31	PMU-based Abrupt Change Detection for Power System Reliability and Security Enhancement	Shiming Xiang, Bo Tang, Yong Fu	Mississippi State University
32	Detection of False Data Injection Attacks in Smart Grid	Bo Tang, Jun Yan, Steven Kay, Haibo He	Mississippi State University, University of Rhode Island
33	Resilient and Trustworthy Cloud Security Framework for Power Grid Applications	Feng Qiu, Alinson Santos Xavier	Argonne National Laboratory
34	Wide Area Monitoring Protection and Control (WAMPAC) Cybersecurity for HVDC Applications	Bo Chen, Sang-il Yim, Hyekyung (Clarisse) Kim	Argonne National Laboratory
35	A Strategic Analysis of Attacker-Defender Repeated Game in Smart Grid Security	Shuva Paul, Zhen Ni	South Dakota State University, Florida Atlantic University
36	A Hierarchical Control Structure for Residential Community Energy Optimization	Zhen Ni	Florida Atlantic University
37	Towards Faster-Than-Real-Time Grid Stability Assessment Using a Differential Transformation Method	Yang Liu, Kai Sun, Rui Yao, Bin Wang	University of Tennessee
38	Nonlinear Modal Decoupling Based Real-Time Power Grid Stability Monitoring	Bin Wang, Kai Sun, Xin Xu	University of Tennessee, Texas A&M University
39	Distributed Inverse Covariance Estimation for Anomaly Detection in Smart Grids	Javad Mohammadpour Velni, Mohammadreza Davoodi	University of Georgia
40	ANGEL: An Intelligent Digital Twin Framework for Microgrid Security	William Danilczyk	University of Rhode Island
41	Digital Twin of the USCGA Satellite Ground Station	Richard Bew, Peyton Henderson, Lee Hartshorn, Joseph Benin	United States Coast Guard Academy
42	Establishment of Enhanced Load Modeling by Correlating with Occupancy Information	Yachen Tang, Shuaidong Zhao, Chee-Wooi Ten, Kuilin Zhang, Logenthiran Thillainathan	GEIRI North America National Grid, Michigan Technological University, University of Washington–Tacoma
43	CP-SAM – Cyber-Physical Security Assessment Metric	Venkatesh Venkataramanan, Adam Hahn, Anurag Srivastava	Washington State University

University of Rhode Island Kingston Campus Map



THE UNIVERSITY OF RHODE ISLAND

KINGSTON CAMPUS MAP INDEX

Academic and Service Buildings

- ** 44 Lower College Rd., Transportation and Parking Office (TAP) (D4)
- 95 Upper College Rd. (B6)
- 177 Plains Rd. (D1)
- 210 Flagg Rd. (A2)
- 3045 Kingstown Rd. (E1)
- * Adams House (C5)
- * Administrative Services (B2)
- * Agronomy Fields (B1)
- * Alumni Center (C6)
- * Anna Fascitelli Fitness and Wellness Center (C3)
- * Athletic Maintenance Facility (B1)
- * Automotive Garage (A2)
- * Avedisian Hall, pharmacy (A4)
- * Ballentine Hall, business (B5)
- * Baseball Batting Barn (D1)
- * Beapre Center for Chemical and Forensic Sciences (A4)
- * Bliss Hall, engineering (B5)
- * Boss Arena (E1)
- * Carlotti Administration Building (C4)
- * Carothers Library and Learning Commons (B4)
- * Catholic Center (B6)
- * Center for Biotechnology and Life Sciences, environment and life sciences (A4)
- * Central Receiving Warehouse (A1)
- * Chafee Social Science Center, arts and sciences (A4)
- * Child Development Center (E4)
- * Christopher House (D4)
- * Coastal Institute (A5)
- * Davis Hall (C4)

- Dining Services Distribution Center (A1)
- * East Farm (off Rte. 108)
- * East Hall (B5)
- ** Edwards Hall (C5)
- Emergency Medical Services Station (EMS) (A1)
- * Episcopal Center (E5)
- * Fernwood Building (Rte. 138 W.) (E1)
- * Fine Arts Center (A6)
- * Fire Station (B7)
- * Fogarty Hall (D5)
- * Gardner Crops Research Center (B1)
- Gender and Sexuality Center (E6)
- * Grandin IEP House (C6)
- * Green Hall, enrollment services (C5)
- * Greenhouses (A5)
- * Hart House (D6)
- * Hillier (E3)
- ** Human Resource Building (C4)
- * Independence Square II (E1)
- * International Center (D5)
- * Keaney Gymnasium (C2)
- * Kirk Applied Engineering Lab (B5)
- * Kirk Center for Advanced Technology (B5)
- * Lands and Grounds (B2)
- * Lippitt Hall (B5)
- * Mackall Field House (D2)
- * Mallon Outreach Center (A5)
- * Meade Stadium (B2)
- * Memorial Union (C4)
- * Morrill Hall (D5)
- * Multicultural Student Services Center (C4)

- * Muslim Community Center (C6)
- ** Newman Hall (E6)
- * Niles Farmstead Cemetery (C2)
- North Woods Challenge Course (off campus)
- (590 Old North Rd.)
- * Pastore Hall and Annex (D5)
- * Peckham Farm (E1)
- * Planetarium (B5)
- * Police (University) (D6)
- * Potter Building, health services (C3)
- * Quinn Hall, health sciences, graduate admission (C5)
- * Ranger Hall (C5)
- * Research and Grant Accounting (C4)
- * Robert J. Higgins Welcome Center, undergraduate admission (D6)
- * Rodman Hall (B4)
- * Roosevelt Hall, University College for Academic Success (C4)
- * Ryan Center (C2)
- * Skogley Turf Research Center (B1)
- * Sherman Building (B1)
- * Schneider Electric Building, engineering (off campus) (Fairgrounds Road, off Rte. 138 W.)
- * Social Science Research Center (A4)
- * Storage (B1)
- * Swan Hall (C5)
- * Taft Hall (B4)
- * Texas Instruments House (TJ) (C6)
- * The Fascitelli Center for Advanced Engineering (B5)
- * Toottell Physical Education Center (C2)

- * Transition Center (E4)
 - * Tucker House (C5)
 - * Tyler Hall (A5)
 - * URI Foundation (C6)
 - * Wakefield House (B1)
 - * Washburn Hall (C5)
 - * Watson House (B4)
 - * West Kingston Research Center (Liberty Lane, off Rte. 138 W.)
 - * White Hall, nursing (A3)
 - ** Women's Center (E6)
 - * Woodward Hall (B4)
- #### Residential Buildings and Dining Halls
- * 29 Lower College Rd. (D5)
 - * Adams Hall (D3)
 - * Aldrich Hall (B3)
 - * Barlow Hall (D3)
 - * Bressler Hall (D4)
 - * Brookside Apartments (B2)
 - * Browning Hall (C3)
 - * Burnside Hall (B3)
 - * Butterfield Hall (C3)
 - * Coddington Hall (B3)
 - * Dorr Hall (C3)
 - * Eddy Hall (C3)
 - * Ellery Hall (C3)
 - * Fayerweather Hall (C3)
 - * Garrahy Hall (A3)
 - * Gate House (D3)
 - * Gorham Hall (C3)
 - * Grandin IEP House (C6)
 - * Heathman Hall (A3)
 - * Hillside Hall (D4)
 - * Hopkins Hall (C3)
 - * Hutchinson Hall (C4)
 - * Mellow Hall (B3)
 - * Peck Hall (C3)
 - * President's House (D5)

- Texas Instruments House (TJ) (C6)
- * Tucker Hall (B3)
- * University Gateway Apts. (E5)
- * University Graduate Village Apts. (E2)
- * Weldin Hall (D3)
- * Wiley Hall (A3)
- ** Women's Center (E6)

Fraternities and Sororities

- * Alpha Delta Pi (E4)
- * Alpha Xi Delta (E3)
- * Chi Omega (E3)
- * Delta Phi Epsilon (E3)
- * Delta Zeta (E3)
- * Kappa Delta (D3)
- * Lambda Chi Alpha (E7)
- * Phi Gamma Delta (B4)
- * Phi Sigma Sigma (E4)
- * Sigma Chi (E3)
- * Sigma Delta Tau (E3)
- * Sigma Kappa (E3)
- * Theta Chi (E3)
- * Zeta Beta Tau (E3)
- * Zeta Tau Alpha (E3)

Unless marked by an asterisk, buildings are fully accessible.

** Public space is accessible.

* Limited or no access.

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Directions and Parking

There are three parking lots we are recommending people who are attending the workshop to park: (1) the Robert J. Higgins Welcome Center Visitor Parking Lot, (2) the Tyler Hall Faculty Parking Lot, and (3) the Fine Arts Faculty Parking Lot.

Note, the University of Rhode Island scans license plates rather than supplying parking permits. Therefore, **you must register your car** at <https://uri.aimsparking.com/> before the workshop. For more information regarding parking at the University of Rhode Island please visit: <https://web.uri.edu/transportation/parking/visitors/>.

Robert J. Higgins Welcome Center Visitor Parking Lot

This lot is the closest lot for the first day of the workshop.

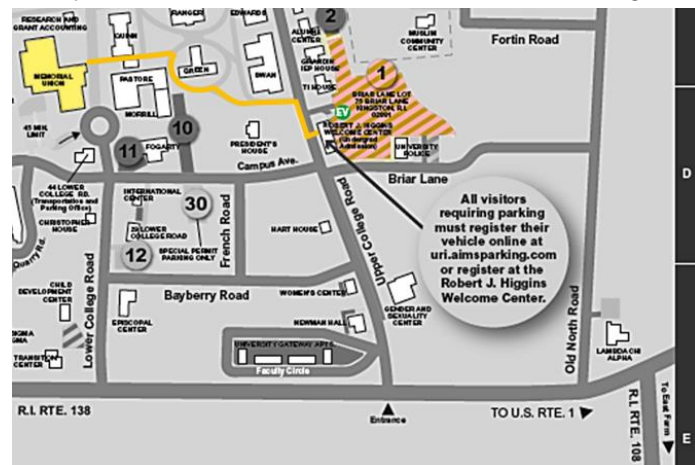
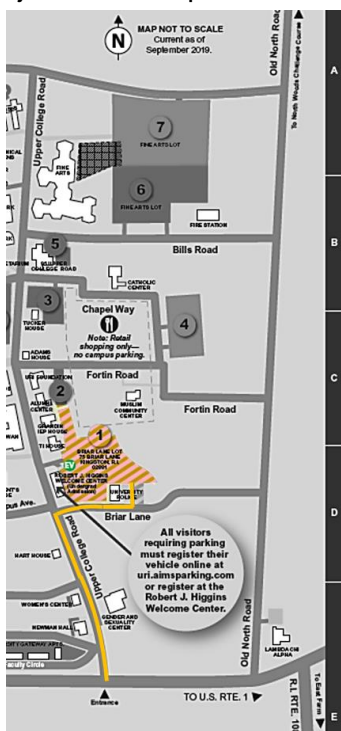
Driving Directions

Set your GPS to: 75 Briar Lane, Kingston, RI (Closest address to the Robert J. Higgins Welcome Center Parking Lot)

- Turn onto Upper College Road, the main entrance to URI.
- Turn right onto Briar Lane at the first intersection.
- Turn left into the parking lot just after the police station.

Walking Directions to the Memorial Union

- From the front of the Robert J. Higgins Welcome Center, cross Upper College Road.
- Turn right and head north on Upper College Road.
- Turn left on the walking path before Swan Hall.
- Follow the walking path around the back of Green Hall and then turn left on the walking path that goes past Pastore Hall.
- Cross Lower College Road and enter through the main entrance of the Memorial Union under the clock tower.
- The first day of the workshop will be hosted in the Memorial Union Ballroom (Room 227). Continue down the hallway and at the end of the hallway turn left. The ballroom is located on the right



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Directions and Parking

Tyler Hall Faculty Parking Lot

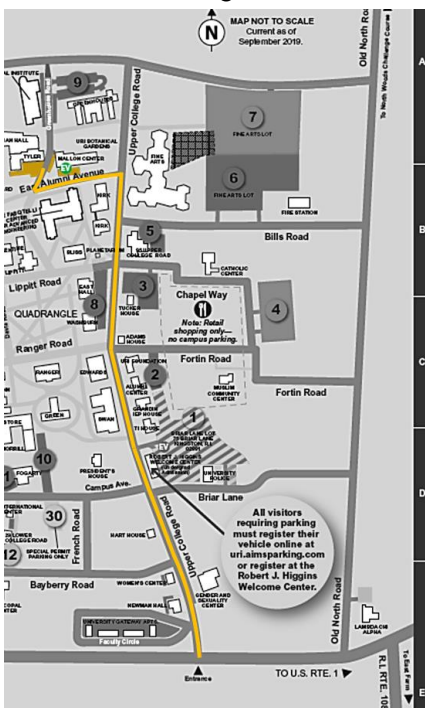
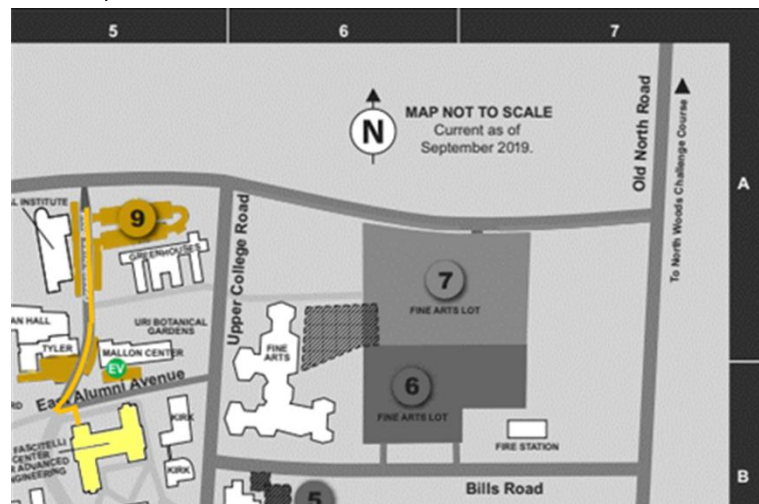
This lot is the closest lot for the second day of the workshop.

Driving Directions

- Set your GPS to: Tyler Hall
9 Greenhouse Road, Kingston,
RI (Closest address to the Fine
Arts Center)
- Turn onto Upper College Road, the main entrance to URI.
 - Turn left onto East Alumni Avenue at the last intersection.
 - Take the first right into the parking lot.
 - From the Parking lot, you will see the back of the Fine Arts Center. Enter the building and continue straight through the next set of doors to get to the front of the building.

Walking Directions to the Fascitelli Center for Advanced Engineering

- From the parking lot head south and cross East Alumni Avenue
- Enter through the northwest entrance of the Fascitelli Center for Advanced Engineering
- Continue down the hallway to the rooms in the south west section of the building.
- The second day of the workshop will be hosted in the Fascitelli Center for Advanced Engineering Active Learning Rooms (Rooms 010 & 025).



Directions and Parking

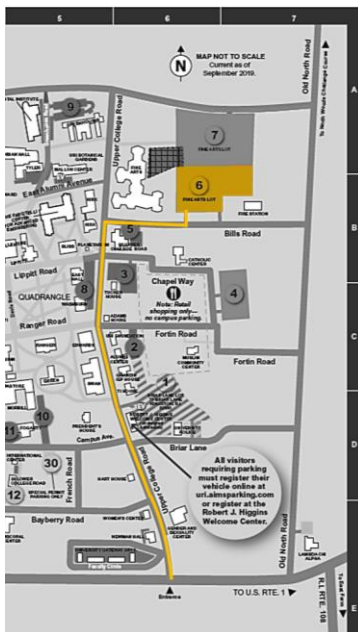
Fine Arts Faculty Parking Lot

This lot should be used as an overflow lot should parking fill up in the two lots described above for the recommended day since the other lots are closer to the buildings the workshop will take place.

Driving Directions

Set your GPS to: 35 Bills Road, Kingston, RI (Closest address to the Fine Arts Center)

- From Route 138, turn onto Upper College Road, the main entrance to URI.
- Turn right onto Bills Road just before the Fine Arts Building.
- Turn left into the parking lot just before the fire station.

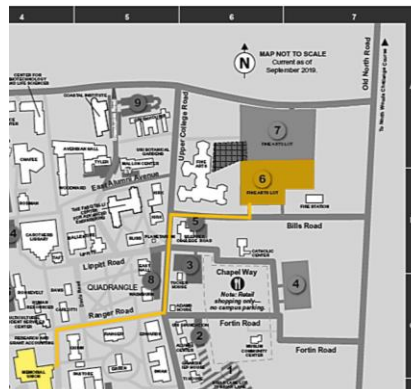


Walking Directions

Memorial Union

The first day of the workshop will be hosted in the Memorial Union Ballroom (Room 227).

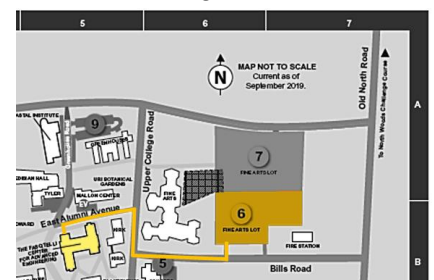
- Proceed to Upper College Road
- Cross Upper College Road
- Turn left and continue south down Upper College Road
- Turn right onto Ranger Road (the street between Edwards and Washburn Halls)
- The road will curve to the left and become Lower College Road.
- Cross Lower College Road and enter through the main entrance of the Memorial Union under the clock tower.
- At the end of the hallway turn left
- The ballroom is located on the right



The Fascitelli Center for Advanced Engineering

The second day of the event will be hosted in the Active Learning Classrooms in the Fascitelli Center for Advanced Engineering.

- Proceed to Upper College Road
- Cross Upper College Road
- Turn right and continue north on Upper College Road
- Turn left onto East Alumni Avenue
- Enter through the northwest entrance of the Fascitelli Center for Advanced Engineering
- Continue down the hallway to the rooms in the south west section of the building.



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Workshop Website

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Car towed?

If your car has been towed from a campus parking area, please call the Public Safety dispatcher at 1-401-874-4910 to find the towing company's contact number.