

INVITATION and PROGRAM (preliminary)

SEMINAR: LEVERAGE IoT, COMMUNICATION, SOCIAL MEDIA AND DATA SCIENCE TO PROTECT CIVIL INFRASTRUCTURE AND SAVE LIVES

Hosted by: The Norwegian Consulate General, Houston

DATE:	TIME:	PLACE:	LANGUAGE:	ADMISSION:
April 27, 2018	9:00 am – 1:00 pm	Norway House 3410 W Dallas Street, Houston, Texas 77019	English	Free

The Centre for Integrated Emergency Management (CIEM) at the University of Agder, the Ken Kennedy Institute for Information Technology at Rice University, and the Global Center of Expertise NODE (GCE NODE) invite you to a seminar on the utilization of Big Data for emergency response systems.

Globally, we are seeing increasing storm frequency and intensity resulting in excessive flooding, landslides and other natural catastrophes. Recent events such as Hurricanes Harvey, Irma, and Maria, which devastated portions of the Gulf, Caribbean, and Atlantic coasts; the northern California wildfires; and the southern tornado outbreak made 2017 the costliest year ever for US natural disasters. At the same time, the counties of Agder and Rogaland located in Southern Norway, experienced the worst flooding in decades while the entire Norwegian coast has been subjected to numerous storms and hurricanes.

These disasters have a detrimental impact on, infrastructure, transportation, communication, and lives. Data collected from sensors and cameras located throughout the region can be mined for knowledge that can be used in responding to disasters in real-time as well as facilitate recovery post-hazard. Advances in data science, data analytics, and machine learning should be leveraged to predict patterns and influence short-term and long-term outcomes.

The seminar will bring together leaders in the field to explore how IoT, Communication Technologies, Social Media, and Data-Science can be leveraged for risk-assessment, improve wellness checks and efficiency of emergency response and guide emergency response actions, pre, during and post disaster. Topics include opportunities and challenges in technology-supported emergency preparedness and response, flood warning and impact of climate change on world-wide security with emphasis on land-based and maritime security and disaster prevention.

The goal is to share information about current projects across borders and entities as well as strengthening partnerships and collaboration. We look forward to welcoming you.

8:30 – 9:00	REGISTRATION AND COFFEE
9:00 – 9:10	OPENING
	WELCOME AND OPENING REMARKS
SESSION 1:	
9:10 – 9:35	TECHNOLOGY-SUPPORTED EMERGENCY MANAGEMENT: OPPORTUNITIES AND CHALLENGES Bjørn Erik Munkvold, Director, CIEM, University of Agder
9:35 – 10:00	RICE UNIVERSITY
10:00 – 10:25	BRIDGING THE GAP BETWEEN CYBER AND PHYSICAL WORLDS: INTEGRATED FRAMEWORK FOR MANAGING THREATS TARGETING CRITICAL INFRASTRUCTURE Nadia Noori, Post-Doc Research Fellow, CIEM, University of Agder
10:25 – 10:45	COFFEE BREAK
SESSION 2:	
10:45 – 11:10	RICE UNIVERSITY
11:10 – 11:35	THE SECURITY IMPLICATIONS OF CLIMATE CHANGE: CHALLENGES FOR MARITIME SECURITY Christian Webersik, Deputy Director, CIEM, University of Agder
11:35 – 12:00	RICE UNIVERSITY
12:00 – 12:10	SUMMARY AND CLOSING REMARKS
12:10 – 1:00	LUNCH

PROGRAM COMMITTEE Ann Marchioro, GCE NODE Bjørn Erik Munkvold, CIEM, University of Agder Jan Erik Ødegård, Rice University	REGISTER HERE Contact: Ann Marchioro Telephone: +47 90 02 18 13 Email: ann@gcenode.no
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