

NEWS

VIDEO

EVENTS

ABOUT



THE ENERGY TIMES > NEWS > STUDENTS PIONEER LIGHTING APP

## Students Pioneer Lighting App

### Smart Streetlight Safety Boost

Srinivasan Ramaraju

Feb 10, 2016

EMAIL SHARE Tweet G+1 Recommend 11

COMMENTS 0

Bringing intelligence to urban lighting.



Smart streetlights on the campus of the Illinois Institute of Technology in Chicago.  
Srinivasan Ramaraju



As technology keeps developing, it is critical to ensure whatever we build is future proof, or built to be utilized in a smarter way.

The Illinois Institute of Technology encourages students to get involved in research and develop applications. As IIT Computer Science graduate students, Christopher Hannon, Haohua Du, and I explored new smart city ideas.

As cities and their partner companies explore ways to improve the efficiency and value of smart street lights, we felt that we could add another dimension to the Smart Streetlight system by utilizing lighting to enhance safety for the public.

This enabled us to build two novel applications for the next generation smart streetlight system. Our goal was to develop an application framework that people can use to promptly request help and alert the surroundings in case of any emergency. We have developed an Emergency Response Indicator and Emergency Mobile App as an important step towards this goal.

### Connect



Subscribe to The Energy Times Newsletter

SUBSCRIBE

### LATEST ON ENERGY TIMES



MAR 13, 2016

#### IdeaXchange A Different Game

Recently, I had the opportunity to watch the U.S. national rugby team play Canada in an international match...[More](#)



FEB 29, 2016

#### ARTICLE Buildings Are Getting Energy Savvy

Building operators are ready to start deploying automated products that will steeply slash their energy consumption, says a government official...[More](#)



VIDEO FEB 29, 2016

#### Customers Seize Energy Destiny

Consumers are increasingly taking control of their electric power destiny...[More](#)

VIDEO FEB 29, 2016

#### Empire State's Energy Revolution

The emergency response indicator application is integrated with the physical 911 call buttons on campus to enable adjacent streetlights flash as warning signals upon the activation of a call button.

The emergency mobile application is designed to minimize the user's action. With a single click on the smartphone, the user will be able to send his or her current location and enable the nearby lights to blink continuously.

These applications not only alert the public nearby but also aid emergency responders.

**EDITOR'S NOTE: Silver Spring Networks, allied with the Illinois Institute of Technology's CSMART Smart Grid Lab, helped The Energy Times secure this article.**

PRINT
 REPRINT
 SAVE
 EMAIL
 SHARE
 Tweet
 G+
 Recommend
 11

Discuss this Article 0

NAME:

[Sign In](#) or [register](#) to use your TDWorld ID

EMAIL:

YOUR COMMENT: \*

[SUBMIT COMMENT](#)

Related Articles

- [ComEd Pioneers a New Utility Compact](#)
- [Hydro One Partners with Four Ontario Colleges to Attract Students to Electricity Sector](#)
- [Energy Department Announces New Investments in Pioneering U.S. Offshore Wind Projects](#)
- [Horizon Wind Energy Contracts Engineers for Pioneer Wind Farm Substation](#)
- [Duquesne Light Wins Approval to Leave PJM](#)



New York State is out to change the way customers purchase and use electricity....[More](#)



NOV 9, 2015

**GALLERY**  
**Collaboration and Inspiration at 'Empowering Customer & Cities'**

**Event**

An impressive line-up of energy leaders from utilities, government, and academia gathered in Chicago for "The Energy Times" summit.

**Webinars**

[Novinium Announces Webinar](#)

[NERC PRC-005, Battery Maintenance and Monitoring Options](#)

[The Grid Cyberthreat - Are We Prepared?](#)

[MORE WEBINARS](#)

**White Papers**

[White Paper: The Energy Revolution](#)

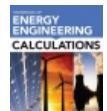
[The Importance of Weather Readiness for Utilities](#)

[MORE WHITE PAPERS](#)

**T&DW Learning Center**

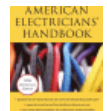
[Handbook of Energy Engineering Calculations](#)

SOLVE ENERGY PROBLEMS QUICKLY AND ACCURATELY



[American Electrician's Handbook Sixteenth Edition](#)

For a century, the *American Electricians' Handbook* has served as the definitive industry reference for...



[Temporary Grounding for Lineworker Protection](#)

This essential safety reference shows how to install grounds...



[VIEW CATALOG](#) [VIEW SHOPPING CART](#)