

# ECE Weekly

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The Ohio State University Department of Electrical and Computer Engineering

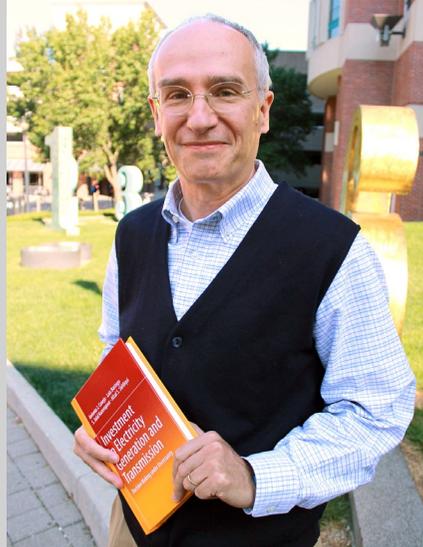
## The future of the power industry

Electricity increasingly powers the trajectory of modern culture. Smart phones, lap tops, household devices, and even vehicles, all require a constant supply of readily-available energy 24 hours a day, seven days a week.

To help make sure this delicate balance of energy and market does not fail, **Antonio Conejo**, a professor of electrical and computer engineering, as well as integrated systems engineering at The Ohio State University, recently published the book, "Investment in Electricity Generation and Transmission."

More at the link:

<http://go.osu.edu/conejobook>



## Ertin's mobile sensor work featured

The **MIT Technology Review** recently featured an Ohio State ECE professor's work in mobile health sensors, as it relates to a \$10.8 million National Institutes of Health multi-university project.

Professor **Emre Ertin** helped develop a wearable device that goes further than any currently on the market (i.e. Apple Watch) by creating the MotionSense "HRV" wristband, which uses three types of LED sensors (red, infra-red and green). The data from the sensors not only enables heart rate monitoring, but also provides simultaneous heart rate variability data between beats as well.

More:

<http://go.osu.edu/emresensors>

## Schniter's team wins IEEE Signal Processing Society 'Best Paper Award'

The **IEEE Signal Processing Society** named an Ohio State ECE research team among its 2016 Best Paper Award winners.

ECE Prof. **Philip Schniter's** team won for its work on the two-part paper: "Bilinear Generalized Approximate Message Passing - Part I: Derivation" and "Part II: Applications," published in IEEE Transactions on Signal Processing, Volume 62, No. 22, November 2014. The first author of the paper, **Jason T. Parker**, earned his BS, MS and PhD degrees in ECE at Ohio State and is now with the Air Force Research Lab in Dayton.

The winning team also includes **Prof. Volkan Cevher** from Ecole polytechnique federale de Lausanne in Switzerland.

More: <http://go.osu.edu/schniter>



## Senior Makes Academic List



ECE student **Rachel Weber** makes 2016 **Ohio State Fall Academic All-Big Ten List**, for her combined efforts as a student and athlete on the Women's Cross Country Team.

## ECE team wins 2016 IEEE app prize

An Ohio State ECE team was among winners of the 2016 IEEE Vehicular Networking Conference held this month in Columbus.

ECE graduate student **Harihara Varma Indukuri** and professor **Can Emre Koksal** won third prize and \$1,000 in a competition to create an app designed to advance innovation in vehicular networking and communication systems.

More: <http://go.osu.edu/IEEEapp>



## Student honors Reano

Ohio State ECE professor **Ronald Reano** was honored by one of his PhD students, citing his skills as

a mentor. The praise was featured on the Optical Society "Honor Your mentor" page:

<http://go.osu.edu/r-mentor>



## VIDEO:

Well, the first snow of the season was cool while it lasted...

<http://go.osu.edu/16snow>