

IEEE

potentials

THE MAGAZINE FOR HIGH-TECH INNOVATORS

March/April 2016, Vol. 35 No. 2

Where the Wireless Things Are

In this issue

- Industrial Wireless Sensor Networks
- Wi-Fi Booster
- Assessing Electromagnetic Radiation
- Cloud App Sprawl



IEEE potentials

THE MAGAZINE FOR HIGH-TECH INNOVATORS

March/April 2016
Vol. 35 No. 2

FEATURES

6

Classical testing

Raymond E. Floyd and Richard H. Spencer

9

IWSN—Standards, challenges, and the future

Humaira Abdus Salam and Bilal Muhammad Khan

17

Performance boost: Dynamically improving a home's Wi-Fi signal

Akshay Srivatsan

22

Assessing electromagnetic radiation in our environment

Thiago Amaral Teixeira and Syed Faraz Hasan

26

Cloud application sprawl in enterprise applications

Kim Tracy

30

MEMS accelerometer: From engineering to medicine

Sritama Roy, Soumen Mandal, and Nagahanumaiah

34

Prevention of injuries among electricians due to unexpected re-energization of power lines

Aikaterini D. Baka and Nikolaos K. Uzunoglu

40

The clapping TVs

Per Biorn



ON THE COVER: The future of wireless looks wild.

BACKGROUND TREES—@ISTOCKPHOTO/LONELY.
CELL TOWERS—@CAN STOCK PHOTO/NEVENM.
MONSTERS—@CAN STOCK PHOTO/BERTOSZIG.

DEPARTMENTS & COLUMNS

3 editorial

4 the way ahead

45 my first job

48 gamesman problems

MISSION STATEMENT: *IEEE Potentials* is the magazine dedicated to undergraduate and graduate students and young professionals. *IEEE Potentials* explores career strategies, the latest in research, and important technical developments. Through its articles, it also relates theories to practical applications, highlights technology's global impact, and generates international forums that foster the sharing of diverse ideas about the profession.

