



Gizmag's YouTube Channel



Follow Gizmag on Twitter



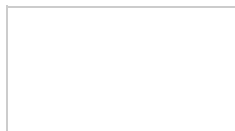
Explore Gizmag



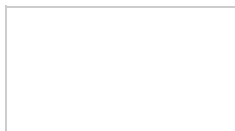
Subscribe

Search

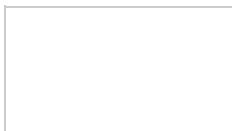
Latest news from WWDC 2012



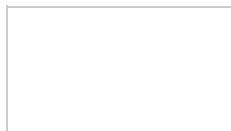
"Eco-Pak" expands on shipping container houses



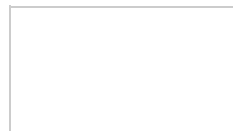
Artificial spinal disc designed to treat chronic lower back pain



The Jetovator flying water bike adds momentum to the "firehose" market



Beamed core antimatter propulsion - more efficient, but don't hold your breath!



Aviator Travel Jib takes DSLR cinematography to new heights

[MORE TOP STORIES »](#)

GOOD THINKING

New software aims to better predict street noise levels

By [Darren Quick](#)

01:10 June 14, 2012



New software could be used to more accurately predict noise levels in a street

(Photo: [Shutterstock](#))

[Field balancing](#)

and more with the Smart Balancer of Schenck
www.schenck-rotec.com

[Laser Gas Monitoring](#)

Accurate, robust, trace gas analysis CO, NO, N2O, HCl, HF, H2O, CO2, CH4
www.tdi-sensors.co.uk

[Vibration Measurement](#)

Portable vibration analyzer 4~32 channel vibration analyzer
www.bensone.com

[Particle Size Measurement](#)

Concentrated system. No dilution. Zeta potential optional. Titration
www.Dispersion.com

AdChoices

Ads by Google

Forecasting Software - www.Quantrix.com

Download Free 30 Day Trial Now. Share Forecasts Fast w/ Web Reports

Expat Insurance in Spain - www.libertyexpatriates.es

Expats Insurance Specialists! 100k international clients in Spain

Dwyer Instruments LTD - www.dwyer-inst.co.uk

Superior Quality Float Switches. Wide Range, Large Selection!

Gas Monitoring Systems - www.LumaSenseInc.com

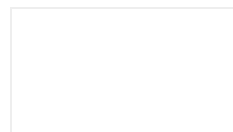
Photoacoustic gas measurement for industry, agriculture, anesthetic

House hunters could soon have a useful tool to turn to when seeking out a potential new pad. Researchers from the University of Granada have developed software that they claim can accurately predict future noise levels in a street. The system not only predicts the frequency of noise, but the type of noise that potential residents would have to put up with.

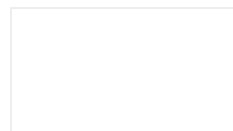
While paying a visit to a property will provide potential purchasers with much of the information required to make a decision on whether to buy or not, reliably forecasting the amount of noise will depend largely on the time of the visit. And with noise classified as a pollutant by the World Health Organization (WHO), it is one of the major factors affecting one's enjoyment and ability to relax at home.

The software designed by researchers from the University of Granada Departments of Computer Sciences and Artificial Intelligence, Civil Engineering and Applied Physics applies a neural network model in a system that they claim can predict

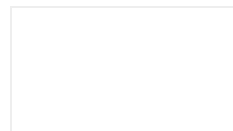
Recent popular articles in Good Thinking



Reaction system promises versatile, cost effective emergency housing



Rinser toothbrush doubles as a mouth-rinsing fountain



Students develop portable sign-language translator

urban noise levels with a reliability of 95 percent.

The system takes into account a number of variables, including street type, road conditions, average speed of passing vehicles, and road works, to produce a forecast of future noise levels. The researchers are currently working to reduce the number of variables required to form an accurate noise forecast.

Unlike mathematical models that rely on a specific set of data, which are usually employed to predict noise levels, the team claims theirs is the first urban noise assessment system to use “soft computing”, a field of computer science that tolerates a bit of imprecision and approximation within its calculations.

The research team relied on a set of noise data collected in Granada in 2007 to develop their system, but they are now collecting further data in other cities against which to validate their model.

Results of the team's study have been partially published in a number of journals, including *Building and Environment* and *The Journal of the Acoustical Society of America*.

Source: [University of Granada](#)

Ads by Google

Peak Laboratories - [www.puregasproducts.com](#)
Spare Parts, Consumables, Service, PP1, RGD, RCP, RGA3, RGA5

Share

0

Like

0

Share

Tags

» [Acoustic](#) » [Software](#) » [University of Granada](#)

Post a Comment

Login with your gizmag account:

Email

Password

Log In

[Register here](#) [Forgotten your password?](#)

Or Login with Facebook:

Log In

Related Articles



“Noise sponge” cuts jet engine noise at the source of combustion



Noise Snare – photo radar for loud vehicles



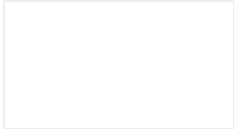
Hearing Components \$79.95 noise reducing Comply NR-10 earphones



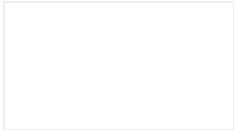
Bose releases Bluetooth headset Series 2



Silica nanoparticles used to make mosquito-repellant clothing



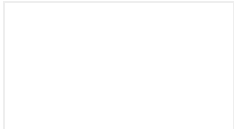
MS-afflicted volleyball player designs award-winning Sports Walker



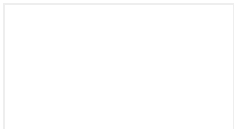
LiquiGlide coating means you'll never waste a drop of ketchup again



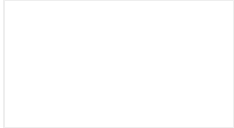
The Green Wheel would grow herbs and veggies, Halo-style



The LifeStraw makes dirty water clean



The anti-mirror... and more



A rooftop fish farm for every family?

AdChoices

[Stata Software](#)
Lowest prices in Europe. Official Stata Distributor.
[www.metriska.se](#)

[ARM: Selected topics 2011](#)
edited by Adèr and Mellenbergh available in bookshops and online
[www.ivank.nl/ARMSelected](#)

[G+H Acoustics](#)
Noise control, Noise screens Noise hoods and silencers
[www.ghakoestiek.com](#)

[Level measurement](#)
High precision sensors for continuous level measurement
[www.veqa.com](#)

[Predict and forecast](#)
Using artificial intelligence. Download free trial software.
[www.peltarion.com](#)

Sections

[Aero Gizmo](#)

[Architecture](#)

[Around The Home](#)

[Automotive](#)

[Baby Gizmo](#)

[Childsplay](#)

[Digital Cameras](#)

[ecoGizmo](#)

[Electronics](#)

[Games](#)

[Good Thinking](#)

[Health and Wellbeing](#)

[Holiday Destinations](#)

[Home Entertainment](#)

[Inventors and Remarkable People](#)

[Laptops](#)

[Military](#)

[Mobile Technology](#)

[Motorcycles](#)

[Music](#)

[On the Water](#)

[Outdoors](#)

[Personal Computing](#)

[Pet Gizmos](#)

[Podcasts](#)

[Research Watch](#)

[Robotics](#)

[Science and Education](#)

[Sports](#)

[Spy Gear](#)

[Telecommunications](#)

[Urban Transport](#)

[Wearable Electronics](#)