

Bench-top Robot Arms

low cost easy to program
strobotics.com



All the news that's fit to assimilate



[Home | Blogs | Events | Robots | Humans | Projects | Podcasts | About | Account]

Robot of the Day

Gaston



Built by
Chris Veigl

Recent blogs

- 16 Jul 2012 Flanneltron
- 13 Jul 2012 mwaibel
- 8 Jul 2012 steve
- 7 Jul 2012 Mubot
- 2 Jul 2012 AI4U
- 22 Jun 2012 Keith Rowell
- 4 Jun 2012 jmhenry
- 26 May 2012 svo
- 17 Apr 2012 Myzhar
- 13 Apr 2012 JamesBruton
- 12 Apr 2012 KerwinLumpkins
- 11 Apr 2012 WhoPhlungPoo
- 5 Apr 2012 evilrobots
- 29 Mar 2012 megaduty
- 26 Mar 2012 MatthiasLutz
- 25 Mar 2012 jkkroll
- 15 Mar 2012 robandix
- 9 Mar 2012 hoba518

Newest Robots

- 7 Aug 2009 Titan EOD
- 13 May 2009 Spacechair
- 6 Feb 2009 K-bot
- 9 Jan 2009 3 in 1 Bot
- 15 Dec 2008 UMEEBOT
- 10 Nov 2008 Robot
- 10 Nov 2008 SAMM
- 24 Oct 2008 Romulus
- 30 Sep 2008 CD-Bot
- 26 Sep 2008 Little Johnny

Artificial Cerebellum

Posted 15 Jul 2012 at 22:57 UTC by John_RobotsPodcast

Researchers in the Department of [Computer Architecture and Technology](#), University of Granada, and in the Department of [Computer Architecture and Electronics](#), University of Almería, have developed a biologically-inspired adaptive microcircuit which functions as an artificial cerebellum, controlling a robotic arm with human-like precision.

To date, although robot designers have achieved very precise movements, such movements are performed at very high speed, require strong forces and are power consuming. This approach cannot be applied to robots that interact with humans, as a malfunction might be potentially dangerous. To solve this challenge, University of Granada researchers have implemented a new cerebellar spiking model that adapts to corrections and stores their sensorial effects; in addition, it records motor commands to predict the action or movement to be performed by the robotic arm. This cerebellar model allows the user to articulate a state-of-the-art robotic arm with extraordinary mobility.

(Source: [Canal UGR](#))

Name:

Pass:

[forgot password?](#)

[Create an account](#)

Interface with robots.net!

- [Follow us on twitter](#)
- [Become a fan on facebook](#)
- [Subscribe to our RSS feed](#)

Popular Stories

- [2011 Top 10 Robot Christmas Gift Ideas](#)
- [Review: Apocalyptic AI by Robert M. Geraci](#)
- [Raspberry Pi Interview with Eben Upton](#)
- [Review: Robotics Programming 101](#)
- [2011 VEX Robotics World Championship](#)
- [Giant Dallas Robot Cited as Best Public Art](#)
- [There's More Than One Way to Skin a Robot](#)
- [Polulu 3pi: the 10,000 Mile Review](#)
- [Day of the Androids at Hanson Robotics](#)
- [Machinima Review: Stolen Life](#)

University in Spain

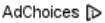
International degrees, transferable credits,
IE University in Spain
www.ie.edu/university

Light-Duty Robot Arm

Fast humanoid arms for light tasks. Easy
to set up. Starting under \$4K.
www.robai.com

50 Hotels in Granada

Compare hotels and save up to 75%!
Save time, book at Booking.com
www.booking.com/Hotels-Granada



User Cert Key

- Observer
- Apprentice
- Journeyer
- Master

Website design and hosting by NCC