



TRN

Technology Research News

Home Archive Research Orgs Researchers Resources Search Ad Finder About

Ads by Google



August 4/11, 2008

[Solar Technologies Report](#)

Revolutionary Solar Technology Hits the Market: Special Investor Report

www.GreenChipStocks.com/Solar

[New Technology News](#)

All The News, All the Views Videos, Blogs, Reviews & Comment

www.itpro.co.uk

[Futurist Dr. James Canton](#)

Technology Futurist Dr James Canton For Keynotes, Consulting & Research

www.GlobalFuturist.com

[10 Rules of Flat Stomach](#)

Cut Down 9 lbs of Stomach Fat every 11 Days by Obeying these 10 Rules.

FatLoss4Idiots.com

[Telecommunications Tech](#)

Browse innovative products for faster telecommunications w/ Intel

www.Intel.com

[Seeing logic](#)

It turns out that you can compute just by looking at something, as long as the something is a visual representation of a logic circuit. A novel method of computing takes advantage of human visual perception... [\[more\]](#)

[Software sees structure](#)

Software that analyzes data sets determines the most appropriate data structure to use. [\[more\]](#)

[Programming biology](#)

A programming language for simulating biology makes it easier for scientists to create computer models of protein molecules, whole organisms and everything in between. [\[more\]](#)

[Tiny microscope goes with the flow](#)

Position a series of microscopic pinholes over digital camera pixels and you have a microscope-on-a-biochip without the bulky lenses of traditional microscopes. [\[more\]](#)

[Rubber biochips get sophisticated](#)

Pretreat portions of the rubber sheets that will form the channels and containers of disposable biochips, and after the biochips are made you can put microscopic pores, patterns and electrodes on channel and container side walls. [\[more\]](#)

[Cut nanotubes speed flexible circuits](#)

Cut single layers of overlapping, randomly oriented carbon nanotubes into strips and you've got an inexpensive route to high-performance, flexible electronics. [\[more\]](#)

FEATURES

[View from the High Ground](#)

Email conversations with researchers in high places.

[How It Works](#)

Get the nitty-gritty on nanotechnology, biochips, self-assembly, DNA technologies, quantum cryptography, and more.

[Last Issue](#)

[Physics phd jobs](#)

Rise to the Top of the Resume Pile. Sign up & Find 70,000 Opportunities



[Official Ford Site](#)

Ford is Making Your Life Easier, More Engaging & A Lot More Fun.

Ads by Google

Ad links:

[Addiction Treatment](#)

[Drug Rehab Program](#)

[Computer Training Courses London](#)

[Projector Lamp Retailer](#)



News [RSS feed](#) [XML](#)
Blog [RSS feed](#) [XML](#)

RESEARCH WATCH

August 5 th, 2008

[The power of perception](#)

An item in the current TRN issue about computing via visual perception has me wondering if the method could be adapted to take advantage of one of the great strengths of the human brain: pattern recognition. [\[more\]](#)

July 30th, 2008

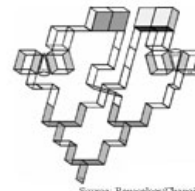
[Nanotech poised to pull in the bucks](#)

June 24th, 2008

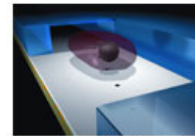
[North Pole melt](#)

June 9th, 2008

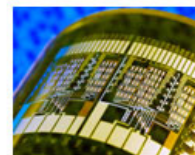
[Changes to TRN](#)



Source: Kensei/Changji



Source: Changhui Yang



Source: Beckman Institute, U. of Illinois

"Physics is to the rest of science what machine tools are to engineering. A corollary is that science places power in our hands which can be used for good or ill. Technology has been abused in this way throughout the ages from gunpowder to atomic bombs."
- John Pendry, Imperial College London

Thanks to Kevin from GoldBamboo.com for technical support

Ads by Google

**Lab On A Chip**

Lab-on-a-chip solutions for life sciences and chemistry
www.micronit.com

Intel Technology Journal

Discover Intel's Technology w/ the environment in mind. Read more.
www.Intel.com

Looking for Lucent info?

Get the latest Lucent news, tutorials, white papers, and more.
Networking.ITtoolbox.com

Physics phd jobs

Access Our \$100K+ Database Search 70,000 New Opportunities
www.TheLadders.com

Science Master's Degrees

Nanoscale Physics, Subsurface Geo- science and Environmental Analysis
www.profms.rice.edu

[Domain Registration](#)[Bathroom Vanities](#)[Personal Computer](#)[Change iPod Battery](#)[Cell Transfection from Altogen Bio](#)[Drug Treatment](#)[Bikes | Bicycles | Mountain Bikes](#)[Drug Rehab](#)[Frigidaire Parts](#)[Nyt Decra Tag Jylland sjælland fyn](#)[Drug Rehab](#)[Buy Photos on to Canvas Prints](#)[Forex Review](#)[Online Certification & Tests](#)[Drug Treatment](#)[Buy an ad link](#)[Home](#) [Archive](#) [Gallery](#) [Resources](#) [Search](#) [Bookshelf](#) [Glossary](#)[Research Organizations](#) [Events Directory](#) [Researchers](#)[Feeds](#) [Contribute](#) [T-shirts etc.](#) [Ad Finder](#)[Comments](#) [Feedback](#) [About TRN](#)

© Copyright Technology Research News, LLC 2000-2008. All rights reserved.



TRN

The Latest Technology Research News

Home Archive Research Orgs Researchers Resources Search Ad Finder About

Ads by Google

Logic Analyzers

Quickly Browse Through Our Logic Analyzer Manufacturer Listings.
Logic-Analyzers.Industrie

Logic Gates

Search Thousands of Catalogs for Logic Gates
www.globalspec.com

SIGMA - Logic Analyzer

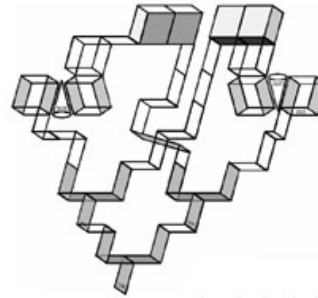
256 Mbit memory, 16 inputs, USB flexible & reconfigurable, € 298.-
tools.asix.net

Computer visual aids

Reading Aid for people w/low vision
Ophthalmologist Recommended
www.LowVisionSolutions

Seeing logic

It turns out that you can compute just by looking at something, as long as the something is a visual representation of a logic circuit. A novel method of computing takes advantage of human visual perception by representing logic circuits as drawings that lead your eyes to perceive the correct output.



Source: Kesselner/Changizi

The scheme includes NOT, OR and AND logic gates -- the basic building blocks of computer logic. The gates are represented as drawings with shaded boxes that appear to tilt either toward or away from the viewer. The two orientations represent 1 and 0 in binary logic. Following a drawing from input to output forces your perceptual system to see the output box in the correct orientation.

If more complicated logic circuits can be represented this way, the method could be used to let people solve logic problems simply by looking at them. It could also help people learn logic.

Research paper:

[Harnessing Vision for Computation Perception](#), July 2008

Researcher's homepage:

[Mark Changizi](#)

Further info:

[View From The High Ground: USC's Michael Arbib](#) -- Arbib is an authority on perception

Back to [TRN August 4/11, 2008](#)

Circuit Diagrams

Quote to Delivery. Full PCB Service Instant Quotes. 24 Hour PCB Support



Logic Analyzers

Rent, Lease, Buy Used Equipment. Agilent, Tektronix & Mainframes

Ads by Google

Ad links: [Clear History](#)

[Buy an ad link](#)

August 4/11, 2008

[Research Watch blog](#)
[View from the High Ground Q&A](#)
[How It Works](#)

RSS Feeds:

[News](#) | [Blog](#)

[Home](#) [Archive](#) [Resources](#) [Feeds](#) [Glossary](#)
[Search](#) [Research Orgs](#) [Events Dir.](#) [Researchers](#) [Bookshelf](#)
[Contribute](#) [T-shirts etc.](#) [Ad Finder](#)
[Comments](#) [Feedback](#) [About TRN](#)

© Copyright Technology Research News, LLC 2000-2008. All rights reserved.