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APES WITH APPS

CAN APES REALLY TALK OR ARE THEY JUST MIMICKING HUMANS? RESEARCHERS USING A NEW TABLET COMPUTER APP AIM TO SETTLE THE DEBATE

STREAMING THE OLYMPICS


THE BIGGEST BROADCAST OPERATION IN SPORTS HISTORY WILL FEATURE LIVE, HIGH-DEFINITION COVERAGE OF EVERY EVENT

COMMENTARY

ALTERNATIVE ENERGY IS A MIRAGE

VACLAV SMIL ARGUES THAT TECHNICAL DIFFICULTIES AND HIGH COSTS WILL MARGINALIZE SOLAR, WIND, AND BIOMASS FOR YEARS TO COME



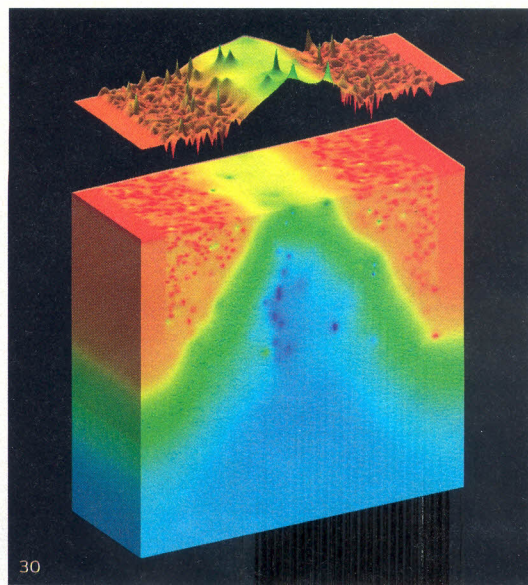
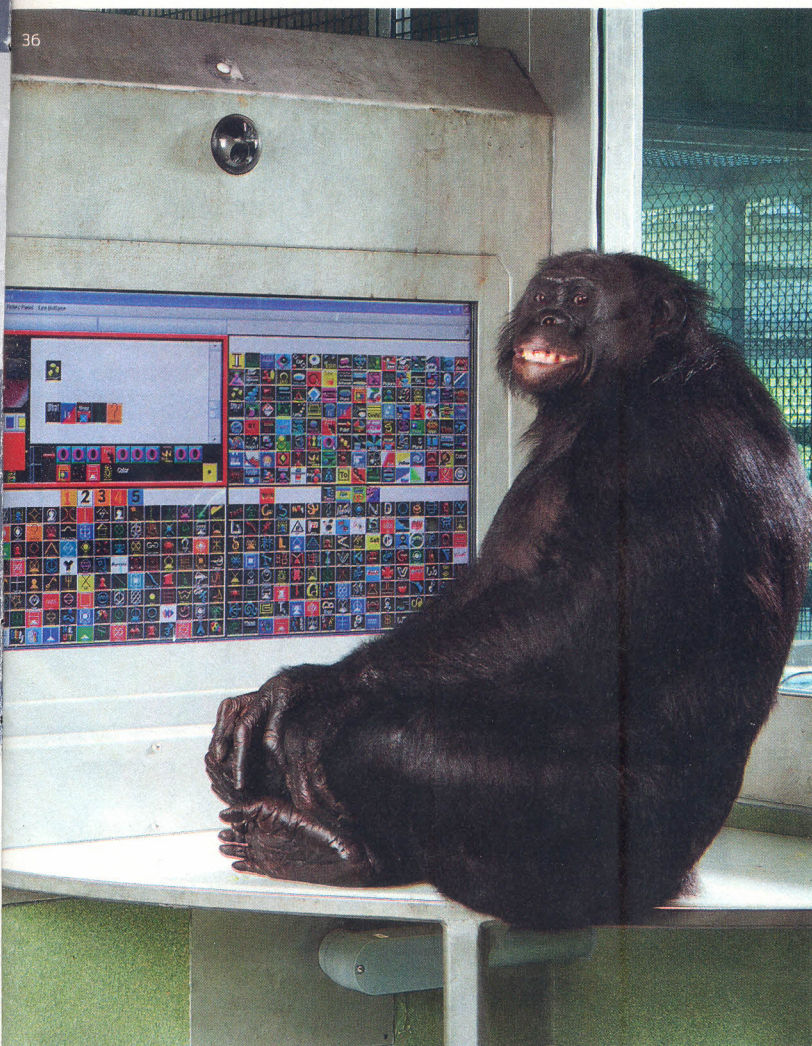
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COVER STORY

36 APES WITH APPS

Scientists have long debated whether apes can truly comprehend human language. With the help of customized software, touch screens, and tablet computers, this small group of bonobos has the answer: Yes, they can. *By Ken Schweller*

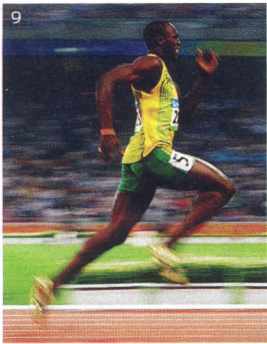
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By Marc Mosko & Victoria Bellotti

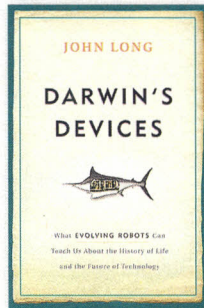
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By Ritchie S. King

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Robots and Human Evolution

What happens when you put successive generations of



robotic tadpoles in a tank of water with a predatory robotic sea turtle? You find out why fish have the number of vertebrae they do and why they have two flippers instead of four.

In a recent "Techwise Conversations," host Steven Cherry talked with bioroboticist John Long about his new book, *Darwin's Devices: What Evolving Robots Can Teach Us About the History of Life and the Future of Technology*.

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researchers and practitioners in the fields of life sciences, engineering, and computing.

VOLUNTEER IN THE SPOTLIGHT

IEEE Foundation president Leah Jamieson talks about her role in creating the public visibility initiative, forming the New Technology Directions Committee, and more.

LIFE SCIENCE NEWSLETTER DEBUTS

Want to learn more about implantable neural interfaces, medical equipment standards, or the role that machine learning plays in computational biology? Then check out the new monthly *IEEE Life Sciences Newsletter*. Launched in April, the electronic publication aims to promote collaboration between

KEEPING MEDICAL DEVICES HACK FREE

Two IEEE Fellows are part of a research group determined to protect wireless medical devices like pacemakers, insulin-delivery systems, and brain implants from getting hacked. The group has developed a prototype firewall to block would-be hackers from tampering with the devices and causing catastrophic damage.

ONLINE WEBINARS & RESOURCES

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