**FACT SHEET**

## 21 Patents from IBM's 21st Year of U.S. Patent Leadership

Below is a representative sampling of 21 patents issued to IBM inventors during 2013 – the company's 21st consecutive year atop the U.S. patent list.

**1) Patent #8,549,604: User authentication method and system**
Issued: October 1, 2013
http://1.usa.gov/1a9RwZY

**2) Patent #8,538,667: Evaluating road conditions using a mobile device**
Issued: September 17, 2013
http://1.usa.gov/1afSJCu

**3) Patent #8,533,715: Virtual machine management**
Issued: September 10, 2013
http://1.usa.gov/1ii0RV0

**4) Patent #8,516,376: Identification system for network data processing systems**
Issued: August 20, 2013
http://1.usa.gov/1a1fTw5

**5) Patent #8,515,922: Deduplicated caching of queries for green IT management**
Issued: August 20, 2013
http://1.usa.gov/1eralu0

**6) Patent #8,510,327**: **Method and process for semantic or faceted search over unstructured and annotated data**
Issued: August 13, 2013
http://1.usa.gov/1lBuT8M

**7) Patent #8,509,526: Detection of objects in digital images**
Issued: August 13, 2013
http://1.usa.gov/1a9RXDN

**8) Patent #8,498,418: Conversion of cryptographic key protection**
Issued: July 30, 2013
http://1.usa.gov/1eHYhoU

**9) Patent #8,489,745: Optimizing power consumption by dynamic workload adjustment**
Issued: July 16, 2013
http://1.usa.gov/19TQiYr

**10) Patent #8,478,961: Dynamic migration of virtual machines based on workload cache demand profiling**
Issued: July 2, 2013
http://1.usa.gov/19TQw1K

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**11) Patent #8,478,881 System and method for transferring large amount of data in web service transaction**
Issued: July 2, 2013
http://1.usa.gov/1lQgXFb

**12) Patent #8,473,327: Target marketing method and system**
Issued: June 25, 2013
http://1.usa.gov/1a1hWjA

**13) Patent #8,463,651: Non-instrumented perishable product tracking in a supply chain**
Issued: June 11, 2013
http://1.usa.gov/1gEye3P

**14) Patent #8,452,352: Systems and methods for predicting battery drain time caused by smartphone applications**
Issued: May 28, 2013
http://1.usa.gov/1cZKKud

**15) Patent #8,417,974: Power efficient stack of multicore microprocessors**
Issued: April 9, 2013
http://1.usa.gov/KF46dL

**16) Patent #8,412,721: Efficient data extraction by a remote application**
Issued: April 2, 2013
http://1.usa.gov/1aIlnZo

**17) Patent #8,386,329: Social network-based recommendation**
Issued: February 26, 2013
http://1.usa.gov/1aIlpAz

**18) Patent #8,385,554**: **Preventing execution of pirated software**
Issued: February 26, 2013
http://1.usa.gov/1dwQiZE

**19) Patent #8,370,517: Conserving energy in a data processing network**
Issued: February 5, 2013
http://1.usa.gov/KF5Kwa

**20) Patent #8,361,907: Directionally etched nanowire field effect transistors**
Issued: January 29, 2013
http://1.usa.gov/19TSQWI

**21) Patent #8,344,358: Graphene transistor with a self-aligned gate**
http://1.usa.gov/1ghZO5W

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CONTACT: Chris Andrews 914-499-4045 or candrews@us.ibm.com