Information Resources

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How scientists and supercomputers could make oceans drinkable: Removing salt from seawater is an enormous challenge. Researchers may have the answer – but it will require a whole lot of processing power. Aleksandr Noy, a senior researcher at Lawrence Livermore National Laboratory, has devoted a significant part of his career to perfecting the liquid alchemy known as desalination – removing salt from seawater. His stock-in-trade is the carbon nanotube. In 2006, Noy had the audacity to embrace a radical theory: maybe nanotubes – cylinders so tiny, that they can be seen only with an electron microscope – could act as desalination filters. It depended on just how wide the tubes were. The opening needed to be big enough to let water molecules flow through but small enough to block the larger salt particles that make seawater undrinkable. Put enough carbon nanotubes together and you potentially have the world's most efficient machine for making clean water. Article

A User Guide to Neural Networks for the Business: In numerous fields, from medicine to exploring space, neural networks will have an indispensable role. Overall, machine learning powered by ANNs is being put to good use. Today, the concept of neural networks doesn't raise a lot of eyebrows. When someone mentions working with neural networks, people rarely imagine scientists conducting neurological or psychological research. Instead, we think of a clever system powered by artificial intelligence. It feels like we're already in the future, where machines can learn and provide a fantastic output of new opportunities. With the current massive increase in available data and computational power, artificial intelligence, and artificial neural networks, in particular, can be applied to the vast areas of everyday life. What does that really mean, though, for business owners? Let's have a closer look at neural networks in business. Full Post

2018 mobile industry predictions: In the 11th edition of mobile industry predictions, 2018 is already starting off with technological bombshells, thanks to the U.S. FCC repealing network neutrality regulations in 2017. However, this debate is far from over. Blockchain is gold: Any company mentioning blockchain suddenly rises to the top, and public companies discussing blockchain see stock valuations sometimes rise dramatically. Those results are primarily based on the hype that bitcoin and other cryptocurrencies experienced in December. Mobile networks continue to flourish, and 5G will likely become reality this year. Full Post

Future of Work 2018: 10 Predictions You Can't Ignore: The start of winter is often referred to as the "holiday season." But it might also be called the "prediction season." When it comes to human capital management (HCM), most predictions tend to be variations of the same things. A colleague and I even created a scale to rate HCM predictions based on whether they are new or just "old wine in new bottles." The reason HCM predictions do not change much over time is because the "H" in HCM is about people. People do not evolve as fast as technology. Consequently, the basic challenges of HCM are constant: getting the right people in the right roles and providing them with the right work environments while complying with employment laws. The following are my "top ten" predictions about how these will change in 2018. Full Story

8 Internet Of Things Predictions For 2018: 1. The IoT hype is over – but the trough of disillusionment typically precedes mainstream adoption; 2. The IoT cloud platform market will consolidate quickly; 3. IoT vendors will refocus and lead with IoT solutions delivering value to their installed base. To read the rest

Technologies That Will Propel India In 2018: Convenience, affordability, and inclusivity will become the mainstay of innovations that take center stage in India in 2018, according to experts. 2017 saw the Indian economy make significant headway in technology deployment. Cloud-based transactions, artificial intelligence (AI), the Internet of Things (IoT), Big Data analytics, augmented and virtual reality (AR and VR), and blockchain became buzzwords across the country, thanks

to the digital push by the Indian government, a flourishing startup ecosystem, and automation in the commercial space. India's thrust in building a robust broadband infrastructure, coupled with its high mobile penetration, will boost technology adoption further. Sector-wise, game changers vary, and 2018 promises further disruptions. Which technologies are likely to take the spotlight in 2018? We reached out to 10 prominent leaders from across key sectors to assess contemporary technologies and predict the likely digital disruptions that await India in the coming year. Below is Digitalist Magazine's projection for emerging technologies in 2018 and the key determinants of their adoption, based on these conversations. Full Story

Computer Architecture - A Study Guide: Computer architecture provides an introduction to system design basics for most computer science students. Webopedia Study GuideThis computer architecture study guide describes the different parts of a computer system and their relations. Students are typically expected to know the architecture of the CPU and the primary CPU components, the role of primary memory and differences between RAM and ROM. Other topics of study include the purpose of cache memory, the machine instruction cycle, and the role secondary memory plays in computer architecture. Guide

Huge List of 65 Computer and IT Certifications: Have you heard about a computer certification program but can't figure out if it's right for you? Use this handy list to help you decide. Becoming IT certified in a specific skill or product is a way to prove that you have the necessary knowledge to perform a job in a given field or a job that uses specific technologies. Earning certification is a good way for computer science graduates and entry-level IT professionals to improve their resume. Employers often look at a candidate's computer and technology certifications in order to assess whether or not the individual is a viable candidate for a position. Webopedia compiled this alphabetical list of different certifications related to computer technologies with a brief explanation of each certification and links to help interested learners find additional information. See the list

200 universities just launched 560 free online courses: If you haven't heard, universities around the world offering their courses online for free (or at-least partially free). These courses are collectively called as MOOCS or Massive Open Online Courses. In the past six years or so, close to 800 universities have created more than 8,000 of these MOOCs. Here's the full list. See the list

65 Password Security Tips: How to Create and Secure Accounts: From a favorite online bookstore to Facebook and webmail services, we create a lot of online accounts. According to a 2016 poll by Intel Security, the average person has 27 discrete online logins. Add to this number, offline codes and we're virtually swimming in usernames, passwords and PINs. From generating strong passwords to using a password manager many security experts, business owners, and vendors contributed their very best ideas and practical advice for our giant list of password security tips. Learn the tips

Robotics in business: Everything humans need to know: Today, robots are cropping up in offices, hospitals, and schools -- decidedly non-industrial environments -- as well as in warehouses, fulfillment centers, and small manufacturing centers. More and more, they are on our roads and flying overhead. And that's just to name a few spheres in which robots are rapidly gaining traction by doing work more efficiently, reliably, and for less money than previously possible. That's got a lot of people excited -- and a lot of others worried. The stunning pace of development in the industry has raised lots of questions. This guide, written with the enterprise in mind, will address the big questions. And it'll give you the context to make up your mind about others. It'll also give you a handle on an industry that's poised to drive $135.4 billion in spending by 2019, one whose relevance to commerce and day-to-day life in the coming decades cannot be overstated. Guide

Net neutrality: The smart person's guide: Do internet service providers have a right to throttle certain traffic? That's the question at the heart of net neutrality, and here's everything you need to know about it. Guide

More Than Noise: Digital Trends That Are Bigger Than You Think: In the tech world in 2017, several trends emerged as signals amid the noise, signifying much larger changes to come. As we noted in last year's More Than Noise list, things are changing—and the changes are occurring in ways that don't necessarily fit into the prevailing narrative. While many of 2017's signals have a dark tint to them, perhaps reflecting the times we live in, we have sought out some rays of light to illuminate the way forward. The following signals differ considerably, but understanding them can help guide businesses in the right direction for 2018 and beyond. Full Post

Workforce of the future - The competing forces shaping 2030: We are living through a fundamental transformation in the way we work. Automation and 'thinking machines' are replacing human tasks, changing the skills that organisations are looking for in their people. But what will the future look like? This isn't a time to sit back and wait for events to unfold. To be prepared for the future, you have to understand it. Our 'Workforce of the future' study looks at four possible Worlds of Work for 2030 to help you kick-start your thinking. You can also take a closer look at the views of 10,000 people in our survey findings summary. Report

These 42 Tools Will Take Your Content To The Next Level…No Matter Your Strategy, Industry or Skill Level: Whether you're an artist, entrepreneur, marketer, freelancer or something else, we all can agree on one thing: creating solid, online content consistently can be hard as hell! Despite this, content has only a handful of components. By mastering these components, one by one, you will better position yourself to be a top content creator in your field. These components are preparation, execution, and promotion. Preparation and promotion consists of what you'd expect: Strategically preparing your piece of content to provide value to others, promote it to rise above the noise, and get the engagement you deserve. The execution—however complex we would like to think it is—almost always consists of a combination of writing, photography/graphic design, and video. In this post, the author has taken all these components, and boiled down hundreds of contenders to bring you the top 3 of each category. These tools include pieces of content, apps, Chrome extensions, websites, and more. Full Post

Be Prepared To Lose Your Job In The Future… If You Don't Learn This One Skill Now: One question Jeff Bezos is often asked is one we all need to ask ourselves, "What's going to change in the next 10 years?" It's a profound question because the world is changing so rapidly, and because the decisions we make now will determine our destiny. Decide wrong, and you might find yourself on a sinking ship, watching as your whole industry goes bankrupt and the skills you spent years honing become obsolete. Millions of people from journalists to financial analysts now find themselves in this position. Decide right, and you could be set for life. The top artificial intelligence programmers, for example, make as much as NFL superstars. These programmers have suddenly found that the skill set they spent years honing has become incredibly valuable. These two groups, top AI programmers and people whose skills have become devalued, might have spent the same amount of time learning and be equally smart. But selecting different fields took them down completely different paths. Over the last few years, The author has come across a group of people who have spent their whole careers expertly predicting the future, investing based off of their predictions, and then massively profiting decade after decade. What the author had noticed is that they share a common and completely counterintuitive approach toward investing their money and time that bucks conventional wisdom. In this article, the author shares how you can copy the approaches of self-made billionaire entrepreneurs and investors like Jeff Bezos, Ray Dalio, Howard Marks, and Warren Buffett so that you too can 'win' your future. Article

30 Behaviors That Will Make You Unstoppable: A lot of people are good at what they do. Some are even elite. A select few are completely unstoppable. Those who are unstoppable are in their own world. They don't compete with anyone but themselves. You never know what they will do—only that you will be forced to respond. Even though they don't compete with you, they make you compete with them. Are you unstoppable? By the end of this blog post you will be. Blog Post

Twisted questions to expect in IIM-Ahmedabad interviews: First Hand Account: Given the reputation of IIMs in India, and how it's no cake walk to get into one of them, it's a huge mystery as to what an IIM interview is like. What really goes on between a student and the interview panel within closed doors? How tough are the questions asked by interviewers? Here are two candidates Deeptam Tudu Saha and Nishant Shah, now proud students of IIM Ahmedabad , narrating their nerve-wracking moments of the interview in pure honesty, and it's
a treat to read their encounters: Story

These 50 Guy Kawasaki Quotes Will Make You a Better Entrepreneur: "Guy Kawasaki is the chief evangelist of Canva, an online graphic design tool. Formerly, he was an advisor to the Motorola business unit of Google and chief evangelist of Apple. He is also the author of APE, What the Plus!, Enchantment, and nine other books." (Amazon). "He is a marketing specialist, author, and Silicon Valley venture capitalist. He was one of the Apple employees originally responsible for marketing their Macintosh computer line in 1984." Guy Kawasaki via Wikipedia. The 50 Guy Kawasaki Quotes that Will Make You a Better Human, Entrepreneur,
Founder (and Make your Startup actually Start Up) Post

Top Facts to Know About Computer Crime: Computer crime (also called cybercrime), is used to generally describe any criminal act dealing with computers and networks. Usually we would use the phrase to describe malicious hacking, identity theft, e-commerce fraud or phishing – but may also be used to describe illegal acts committed with the use of a computer or device and internet connection, such as stalking or cyber bullying. The following facts and statistics capture the changing landscape of cyber security and how business owners and security professionals are keeping up with these top security challenges. Full Post

The Five Generations of Computers: Each one of the five generations of computers is characterized by a major technological development that fundamentally changed the way computers operate. Most major developments from the 1940's to present day have resulted in increasingly smaller, cheaper, more powerful and more efficient computing devices. In this Webopedia Study Guide, you'll learn about each of the five generations of computers and the advances in technology that have led to the development of the many computing devices that we use today. Full Guide