

Metropolis Newsletter # 11

Campus News



Robots and humans collaborate to revolutionize architecture

Two Princeton researchers, architect Stefana Parascho and engineer Sigrid Adriaenssens, dreamed of using robots to simplify construction, even when building complex forms. "We want to use robots to build beautiful architecture more sustainably," said Adriaenssens, ...

www.princeton.edu



The multiple benefits of a world without air conditioning | School of Engineering and Applied Science

To demonstrate the effect of radiant cooling, Forrest Meggers, assistant professor of architecture and the Andlinger Center for Energy and the Environment, and a team of researchers built a "Cold Tube," in Singapore last year. It was an outdoor pavilion lined with novel insulated radiant panels...

engineering.princeton.edu

Students step up summer research, with increased support, amid pandemic's challenges | School of Engineering and Applied Science

For undergraduates in the engineering school, summer often means a chance to apply their learning in new ways, whether conducting field research, working in industry or volunteering abroad. Last summer, with the COVID-19 pandemic disrupting many of these plans, some students' research projects took them in unexpected directions.

engineering.princeton.edu



Making of the Modern Metropolis: Evidence from London* | The Quarterly Journal of Economics | Oxford Academic

Abstract. Using newly constructed spatially disaggregated data for London from 1801 to 1921, we show that the invention of the steam railway led to the first I
academic.oup.com

National and International News



Innovative architecture and urban mobility solutions from the U.S.A.

Dozens of cities across the U.S. seem to be in a race to build the next headline-grabbing building. Not just taller, but more innovative, striking, and sustainable. As U.S. urban populations boom, so does construction and new urban mobility solutions. URBAN HUB takes a closer look.

www.urban-hub.com



Episode 12: Generative Design. Could machine learning help us find... | by City of the Future | Sidewalk Talk | Oct, 2020 | Medium

“City of the Future” is a podcast that explores ideas and innovations that could transform cities. In this episode, hosts Eric Jaffe and Vanessa Quirk discuss how generative design can help

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medium.com



US cities are spending millions on trees to fight heat – but are their plans equitable?

As US cities cope with rising temperatures, some are investing in planting and maintaining trees – but experts warn the coverage might benefit wealthy neighborhoods more

www.theguardian.com



Solar power could be 'the new king' as global electricity demand grows

Renewable energy, led by solar power, could make up 80% of the growth in electricity generation over the next decade, according to a report published Tuesday.

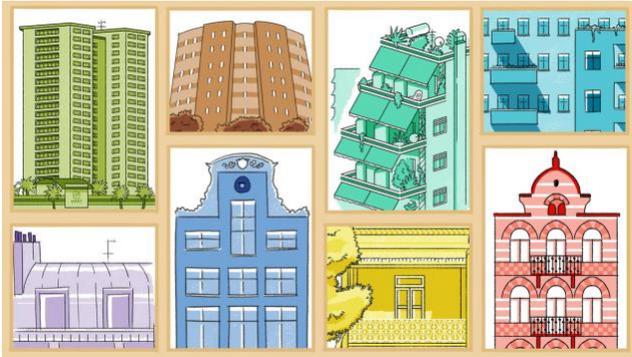
www.cnn.com



The Indian megacity digging a million wells - BBC Future

The school is housed in a nondescript two-storey building in a densely populated district of south-east Bangalore. Pillars painted in the orange, white and green of the Indian national flag add a ...

www.bbc.com



The Iconic Home Designs That Define Our Global Cities

To understand a city, start with the foundation. Floor plans from homes around the world explain how the way we live has shaped the design and architecture of urban neighborhoods — and vice versa.... www.bloomberg.com



Electrifying Homes And Cars Could Save The Climate -- And \$2,500 Per U.S. Household

New research shows that the U.S. can rapidly decarbonize with existing technology and no real lifestyle changes. www.huffpost.com



Dutch city redraws its layout to prepare for global heating effects | World news | The Guardian

The Dutch city of Arnhem is digging up asphalt roads and creating shady areas around busy shopping districts after concluding that the consequences of global heating are unavoidable. www.theguardian.com

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