Getting Started Guide - Site Components

Louise Torres - Drupal Cloud Website

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Home

Welcome to my corner of the Internet. I am Dr. Louise Torres, a Postdoc at MIT studying algorithm modalities on artificial intelligence. I welcome opportunities to collaborate on research projects or to speak on my past and current research projects. Please peruse my website and contact me if you have any questions.

About

Louise Torres was born in Athens, Ohio. She received a combined B.S. and M.S. degree in Math with a minor in business in 2010 from the State University of New York in Stony Brook. Torres then moved to Ithaca, NY where she earned her Ph.D. in Cognitive Science from Cornell University in 2013 under the guidance of Professor Samuel Mulvaney. While at Cornell, her graduate work focused on the use of algorithms in artificial intelligence in industry.

Currently, Torres is a postdoctoral fellow at the Sloan School of Management at MIT. Following her postdoctoral training, she aims to establish an independent research program on the uses of artificial intelligence in industrial growth.

Publications

Torres, L., Lee, M. (2015) Factors in Industrial Production. Harvard Business Review. 223: 25-32.

Wilcox, C., Torres, L., Peterson, R. (2014) Smart Production in Today's Plants. Modern Manufacturing. 237: 112-123.

Kay, R., Torres, L., Jennings, W.T., Henderson, K. (2013) Effective Training of Plant Floor Managers. Sloan Management Review. 146: 56-71.

Torres, L., S.J. Allen, D.L. Brock, P. (2013). "The Future of Connective Technology: Greater Integration Through Semantic Modeling," Cutter Business Intelligence Report 5:1.

Torres, L., C. Unahabhokha. (2012). "Master Production Schedule Stability Under Conditions of Finite Capacity," Modern Manufacturing. 235: 243-248.

Torres, L., "Modeling and Control of Manufacturing Processes: Getting More Involved", ASME J. of Dynamic Systems Measurement and Control, 115, June. 2011, pp 291-300.

Blog

Artificial Intelligence Applications in Manufacturing

It might takes years for us to see Ava, the robot in Ex Machina, to become a reality, but AI has already have a profound impact on human life in more subtle ways. Self-driving cars, Siri on your iPhone, weather forecasts, face recognition on your Facebook photos, etc are all examples.

There is, however, one problem for manufacturing robots: thus far, they have been produced for specific purpose . That means if you want a different function, you will need to design and produce a new robot instead of programming the existing ones. According to Robert Atkinson, president of the Information Technology and Innovation Foundation, Google is developing an operating system for robot just like Android system where you can inter-operate platform across various industries at a lower cost . With this operating system, Google is hoping to dominate the AI application in manufacturing industry.

Replacing human with robot in manufacturing is a trend that we can’t stop or avoid. As technology advances, the low cost, high-accuracy and efficiency of robot is going to benefit the human society as a whole on a broader level.

Contact

Please feel free to contact me with questions about my research or if you would like to discuss collaborating with me and my team.

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