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Press

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Siemens updates NX Software with Artificial Intelligence and Machine Learning to increase productivity

- **Latest release of NX software enhanced with new capabilities that leverage machine learning and artificial intelligence technology to create user interfaces based on expected tasks to increase user adoption and productivity**
- **Siemens' Digital Innovation Platform enhanced with machine learning-driven user-interface solutions to enhance design process improvement**

Siemens announced today an expansion of the Digital Innovation Platform with the introduction of the latest version of NX™ software, which has been enhanced with machine learning (ML) and artificial intelligence (AI) capabilities. These new features can predict next steps and update the user interface to help users more efficiently use software to increase productivity. The ability to automatically adapt the user interface to meet the needs of different types of users across multiple departments can result in higher adoption rates, leading to a higher-quality computer-aided technology (CAx) system and the creation of a more robust digital twin.

"NX continues to innovate. NX is the first CAD product to deliver capabilities based on artificial intelligence and machine learning. I see value in the new NX Adaptive User Interface for our causal user, to help them with discoverability and improved productivity," said Mr. HyunMin Kim, principal engineer, Samsung Electronics Co., LTD."

Machine learning is increasingly being leveraged in the product design process to provide a competitive advantage. ML can be used to deliver valuable business insights more quickly and efficiently, and it has the power to process, analyze, and learn from large volumes of data. AI and ML can also be used to monitor the actions of the user, and their success and failures, to dynamically determine how to serve up the right NX

Siemens AG
Communications
Head: Clarissa Haller

Werner-von-Siemens-Strasse 1
80333 Munich
Germany

commands and or modify the interface and leverage learned UI usage knowledge for CAx environment personalization.

"There's always been a capability-usability tradeoff with CAD applications. The more expansive it gets, the more difficult it is to use and master," said Chad Jackson, Chief Analyst at Lifecycle Insights. "The Adaptive UI in NX, however, circumvents that issue. It guides users, new and old, to the right functionality at the right time. Many will benefit."

The Siemens Digital Innovation Platform is continually expanding to enable customers to create the most comprehensive digital twin of the product, the production environment and of the performance of the product. Integrating ML and AI into NX software offers the benefits of speed, power, efficiency and intelligence through learning, without having to explicitly program these characteristics. This offers many opportunities for customers to enhance design process improvement and ultimately their product offerings and reduced time to market. The NX Command Prediction module is the first introduction of the machine learning-enabled NX adaptive user interface architecture to the market, and will be the basis for, and lead to, additional machine learning-driven UI solutions.

"Although extensive research conducted in the field of human-computer interaction has resulted in an excellent static interface, we still lack the perfectly-tailored dynamic interface that can suit all users," said Bob Haubrock, Senior Vice President, Product Engineering Software at Siemens PLM Software. "The latest version of NX uses machine learning and artificial intelligence to monitor the actions of the user, and their successes and failures, so now we can dynamically determine how to serve the right NX commands or modify the interface to make the individual user more productive. Leveraging this learned-user interface knowledge for CAx environment personalization can help our customers improve overall usage and adoption rates, ultimately leading to a more efficient product development processes."

Learn more about the latest version of NX software here.

Siemens PLM Software, a business unit of the Siemens Digital Factory Division, is a leading global provider of software solutions to drive the digital transformation of industry, creating new opportunities for manufacturers to realize innovation. With

headquarters in Plano, Texas, and over 140,000 customers worldwide, Siemens PLM Software works with companies of all sizes to transform the way ideas come to life, the way products are realized, and the way products and assets in operation are used and understood. For more information on Siemens PLM Software products and services, visit www.siemens.com/plm.

Contact for journalists

Natalie Navales
Phone: +1 314 264 8671; E-mail: Natalie.Navales@siemens.com

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