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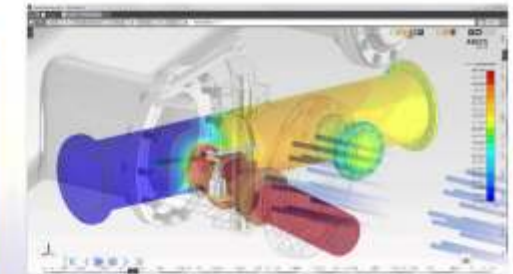
ANSYS 18

Release Focuses on Digital Twin, IoT and Engineering Apps

With the release of ANSYS 18, the computer-aided engineering is extending the journey towards Internet of things (IoT) and digital twin. The next phase for ANSYS was made possible after collaborating with PTC ThingWorx and GE Predix that enables development of applications. Besides the release, the objective of manufacturers is to ensure that simulations go throughout the life-cycle of the product right from design, manufacturing, use, and end of life.

Extending the Scope of ANSYS AIM

The new release has extended the capabilities of AIM with the upcoming of ANSYS Fluent and Mechanical. Previously, AIM was a product with some feature gaps but has now expanded towards some broad applicability. These files are easily transferable into ANSYS flagship simulation software in a way that analysts can explore into physics of designs without starting from the scratch.



IoT and Digital Twin will make CAE widespread

Simulations are going ahead focusing towards the product development in the edging as well as into the operations. The collaboration with the two IoT platforms (PTC ThingWorx and GE Predix) was a right move as both the companies had a head start in the IoT market and hold a significant place in the engineering community for the CAE software. It is a good way to hedge your bets and integrate with the market winners to introduce ANSYS' simulation technology.



Simulation Engineering apps are yet another way to branch out for the design cycle. ANSYS 18 comes packaged with the application building software, which is taken into use for creation of simulation engineering apps. Additionally, consultants and engineers can sell and share the apps to clients via ANSYS app store. Besides share and sell feature, customizing usage and limiting deployment for a specific project is also possible.

Technology Enhancements to ANSYS 18 Portfolio

Noted were a few material advancements in ANSYS Mechanical, Geographical, Electronic, and Biological Simulations. As an example, engineers will soon be able to simulate material with variable properties. Apart from these, ANSYS portfolio will experience ANSYS CFD Enterprise offering a new package of fluid dynamics, ability to study antenna signals, ability to import electrical models based on chip profiles and UI enhancement in the portfolio as per the customer feedback.

As a company seizes the opportunities presented by new trends, ANSYS seems to undergo continuous development keeping the software to lead the world via pervasive engineering simulation.

Global Computer-Aided Design Market 2017-2021

The CAD solutions are widely adopted by industries such as aerospace, automotive and defence. The Computer Aided Design Market Research is done based on the current scenario and development prospects of CAD Industry for the period 2017-2021. The market analysis of CAD reflects growth percentage, competitive landscape, and key vendors within the industry.

Forecasting the global CAD market to grow at CAGR of 7% within 2017-2021

The global computer-aided design market is expected to grow at a slow rate of around 7% in the near future. The increasing adoption of cloud-based CAD will make growth prospects for the CAD market until 2021. The vendors are coming up with 4D CAD solution for improving constructability taking care of granular level information.



The market of CAD is highly competitive due to a large number of regional and international vendors present across the globe such as Autodesk, Dassault Systemes, PTC and many more. These vendors are also persuaded to offer a unique value proposition looking onto the continual advancement in a technological environment.



Segmentation by end-user and CAD Market Analysis

The end-users of CAD are present in various sectors wherein the automotive sector had the maximum market share in 2016 and will continue to dominate in the future years. There will be an increasing demand for sports utility vehicles (SUVs) and crossover vehicles in the coming times.

Segmentation by end-user and CAD Market Analysis

America had the maximal market share in the year 2016 and will continue to grow in near future. Due to increasing rate of investment in R&D, there will be a rise in adoption rate of solutions and software including CAD.

Since, the growth aspects of CAD market are evident; the new solutions will facilitate management of resources while making configuration to the project schedules.



DESIGN AUTOMATION can Boost Indian AUTOMOTIVE SECTOR Embracing BS IV Norms

India is a quick adaptor of technologies and the same notion is suitable when we talk about automotive industry. Adhering to the norms set by Supreme Court, Indian Automotive Sector will experience vehicles equipped with higher efficiency and engine complaint with BS IV standards.

Scope of Advancement in Automotive Sector

The nation is on the verge of becoming a key-market for entry level and high-end/luxury cars. In future, the country will be on the peak of automobile industry wherein the original equipment manufacturers will be benefited with the arrival of custom-made design solutions. The specialized connected vehicles and driverless cars are already imagined rolling out on the roads of India. With the new technology vehicles, global technologies will be transferred to the country for implementation of design automation.

Collaboration Extending Benefits to Automotive & Educational Sector

Invioligic, an IT company specialized in design automation with signing of partnership deed with MHP, a Porsche Company (Germany) targets Indian original market equipment manufacturers. According to the Managing Direction of Invioligic, there will be rapid shift in implementation of technologies from mechanical to electronic and software based. In order to the address the technical advancement, the IT Company might collaborate with major institutions and universities making provision for skills development program.

Over a period, this automation technology has brought huge amount of saving in the automotive industry. Design automation will work wonders for complexity management, right from entry-level to high-end cars.



Inside 3D Printing in Seoul unveils the New Era of Digital Manufacturing



Inside 3D printing is one of the largest 3D printing event series worldwide and will take place on June 28th, 2017 in South Korea. The three days event encompasses international conference and an exhibition. The theme of exhibition revolves around "The New Era of Digital Manufacturing". According to the director general of ministry, financial resources would spend primarily on bio printing, material development, and 3D software.

Preliminary Study on Session

The exhibit category is formed combining 3D scanner, CNC milling machines, metrology, CAD/CAM software, and material highlighting developments in the new era of digital manufacturing. The exhibition is going to witness more than 70 exhibitors from global corporations such as EOS, MakerBot, German Reprap, XYZ Printing, 3D Box, Motion Works, etc.

3D Printing in Digital Manufacturing & Supply Chain

The session will explicitly focus on manufacturing, business, metal, aerospace and automotive industries. For instance, applying 3D printing to manufacturing in aerospace industry to enhance competitiveness and enlarge market share in the global market. Emphasizing on digital manufacturing, it was revealed that enterprise software giant SAP and EOS have made a pact to integrate 3D printing with supply chain processes and build foundation for on-demand manufacturing.

Moreover, the entire session will be exploring the market trend of digital manufacturing and 3D printing foreseeing the future, the community and potential addressable market.

Ransomware, Digital India and the Growing Cyber Threats



The latest ransomware attack "WannaCry" has become a horror for most of the organization and countries. Looking at the speed at which it has spread has in fact raised questions on cybersecurity. Especially in countries like India where the nation is moving towards digitization through initiatives like

"Digital India", this attack has raised doubts on the safety of digital transactions.

With a strong motive to create a cashless economy, the shift towards digital payments has already increased significantly in India. In a survey, around

88% of the respondents showed their willingness to make use of digital payments and 48% were already using it for more than 75% of their transaction. However, all of them were concerned about the security, especially in the end devices. As more number of users is

shifting towards digital payments, the chances to security risks such as online fraud and information theft are also increasing. Tax and advisory service provider point out the lack of awareness and poor digital payment ecosystem as a reason for online fraud and virus attacks.

Addressing the issues, there is a requirement of regulatory framework, foolproof security measures, convenience and immediate settlements to ensure long-term success for digital payments.

Image courtesy: <https://industrial-iot.com> || <https://3dprintingindustry.com> || <http://novabackup.novastor.com> || <http://3dprintingindustry.com> || <https://www.siemens.com> || <https://s3-eu-west-1.amazonaws.com> || <https://static.wixstatic.com> || <https://yimg.com> || <http://www.autocarpro.in> || <https://www.scmp.com> ||