

TUESDAY 04/06/2024

09:30 - 17:10 Accreditation desk opening hours

Conference room of Hall 4 (BEC)

Remember that you have the option of registering for the conferences through the website and/or at the accreditation desk in Hall 4 during the event. Until then, get your accreditation in advance by clicking on the following [link](#).

10:00 - 10:10 Welcome and Opening of BIEMH TALKS

Participants: BEC and AFM

10:10 - 10:30 KEYNOTE OPENING: Políticas e iniciativas en el Cloud - edge - data continuum y su aplicación en la transformación digital de la industria

Leire Orue-Echevarria Arrieta - Policy Officer - **DG CONNECT European Commission**

Cloud y Edge computing son tecnologías habilitadoras para la transformación digital de la industria y están asimismo revolucionando la forma en la que las empresas gestionan y usan sus datos. La economía del dato se ha convertido actualmente en un pilar fundamental en la industria donde la gestión, captura, almacenamiento, procesamiento y uso de los datos, tanto en arquitecturas centralizadas (cloud) como descentralizadas (Edge) y federadas, es crucial, sobre todo en lo que concierne a la toma de decisiones estratégicas y la innovación. En este contexto, la Comisión Europea ha lanzado varias iniciativas y políticas para fortalecer las infraestructuras digitales y la seguridad de los datos en la Unión Europea. En esta Keynote se hablará sobre el proyecto importante de interés común europeo (IPCEI) en infraestructuras y servicios cloud (IPCEI-CIS), en el que participan más de 100 empresas de 12 Estados Miembros y con una inversión de 2.6 billones de euros, la creación de un middleware inteligente en software abierto para la federación de espacios de datos e infraestructuras, el Data Act que favorece la portabilidad e interoperabilidad entre servicios cloud o el Data Governance Act, que busca crear un marco regulatorio común para el intercambio de datos entre empresas garantizando la seguridad y privacidad de los datos, entre otras, y su aplicación al sector industrial.



Leire Orue-Echevarria Arrieta

SESSION 1: DIGITALIZATION AND SMART SYSTEMS IN INDUSTRY

10:35 - 10:50 LECTURE: AFM CLUSTER/STECH initiatives in the field of AI as applied to advanced manufacturing

Jon Núñez - Especialista en Tecnología - AFM

En esta ponencia se presentarán las distintas iniciativas que se están llevando a cabo desde AFM CLUSTER y STECH en el ámbito de la Inteligencia Artificial aplicada a la fabricación. Se presentarán proyectos en los que AFM y STECH están participando y que suponen una oportunidad para las empresas industriales, así como grupos de trabajo que se están dinamizando dentro del clúster.



Jon Núñez

10:55 - 11:30 DISCUSSION PANEL: Application of AI to the manufacturing industry

Participants:

- José Antonio Lorenzo - Data Area Manager - Lantek
- Nerea Aranguren - Innovation Manager - DanobatGroup

Moderates:

- Jon Núñez - AFM



José Antonio Lorenzo



Nerea Aranguren



Jon
Núñez

11:30 - 11:55 Coffee Break & Networking

11:55 - 12:10 Success story: Digital Twin of a handling robot and usage of a AI-based controller software to compensate environmental changes in stretch blow molding machines

Jens Lerche Senior Application Engineer - **MathWorks**

Krones AG, headquartered in Germany, specializes in producing complete production lines for the process, filling, and packaging industry, including handling robots and stretch blow molding machines for PET bottles. The challenge was creating lighter, recycled PET bottles, as minor raw material and environmental changes significantly impacted product quality. Krones developed Contilooop AI, an AI-controlled blow molder, using reinforcement learning to adjust to various inputs and outputs. This innovative solution, combining new hardware and AI software, adapts to changes in materials and conditions, reducing manual adjustments and ensuring consistent bottle quality by monitoring light transmission during production. Contilooop AI efficiently handles rPET, supports lightweight bottle production, and is retrainable for new materials or designs via the Krones IIoT platform.



Jens Lerche

12:15 - 12:30 Success story: AI for value chain planning, sequencing and synchronisation in the automotive industry

Borja Iglesias - Managing Director and partner - **Kaizen Institute**

Jorge García - Production Systems Manager - **Maier**

Maier success story:

The overall planning of the value chain still features many manual processes, which leads to labour expenditure and decision-making without an overall view of the value chain, and consequently unoptimised resources, high intermediate stocks and low quality of service. Facing this challenge, Maier is looking for a smart factory, by generating automatic line planning and sequencing algorithms, connecting real orders with production constraints, optimising the sequence that maximises efficiency, and synchronising the value chain in real time using pull algorithms and electronic kanbans. Thus, we see a significant reduction in the value chain's lead, the lead time and service levels are guaranteed, and finally, the efficiency of the equipment is guaranteed.



Borja Iglesias



Jorge García

12:35 - 12:50 Success story: Beyond the data: Cometel and Digitalentu towards Innovation and Scalability

Álvaro José Zevallos - Founding partner - **Digitalentu**

Sandra Montes - Managing director - **Cometel**

Explore Cometel's transformation with Digitalentu, from data governance to improve internal efficiency, to the creation of advanced services and digital business models to ensure growth and scalability. In the digital age, where data flow with unprecedented abundance, the real challenge lies not in accumulating data, but in harnessing them strategically. Cometel S.A., a family company and a world leader in the execution of complete projects for the transport, treatment and distribution of industrial waste, was at a critical point in its evolution. Surrounded by data generated by various IT and OT technologies, the key question they faced was: "How can we turn them into our greatest asset for innovation and scalability?"



Álvaro José Zevallos



Sandra Montes

SESSION 2: EMERGING DIGITAL TECHNOLOGIES IN THE INDUSTRY

12:55 - 13:10 LECTURE: Guía sobre cómo aplicar IA Generativa en la

Industria

Iñaki Suárez - Head of Technology - **BAIC (Basque Artificial Intelligence Center)**

Exploraremos cómo la Inteligencia Artificial generativa está transformando diversos sectores, mediante la automatización y optimización de procesos. Discutiremos los desafíos prácticos, como la calidad de datos y los requerimientos técnicos, y proporcionaremos una guía concisa para su adopción exitosa y sostenible en las empresas. Esta sesión es esencial para comprender el impacto y las oportunidades de la IA generativa en el mundo empresarial.



Iñaki Suárez

13:15 - 13:30 LECTURE: Data economy through reliable, sovereign and secure sharing and exploitation of data

Francisca Rubio - General Manager - **GAIA-X España**



Francisca Rubio

13:35 - 14:10 DISCUSSION PANEL: Quantum Technologies in Industry

Participants:

- Aitor Moreno - Responsable del Departamento de Inteligencia Artificial & Quantum Computing - Ayesa
- Anton Asla Manzarraga - Gerente de Innovación - Grupo Erhardt
- Iraia Ibarzabal - Chief Growth Officer - Multiverse Computing
- Juan Carlos Villanueva - IT Manager - Mercedes

Moderates:

- Esther Villar Rodríguez - Responsable de Tecnologías Cuánticas - Tecnalía



Esther Villar Rodríguez



Aitor Moreno



Anton Asla
Manzarraga



Juan Carlos Villanueva



Iraia Ibarzabal

14:10 - 15:30 End of the morning session - Free visit to the exhibition

area

SESSION 3: INDUSTRIAL CIBERSECURITY

15:30 - 15:45 LECTURE: European strategy and research in Cybersecurity**Ana Ayerbe** - Board of Directors (**ECSO**) and President (**RENIC**)

Se abordará el dinámico contexto de la ciberseguridad Europea ofreciendo una panorámica de la Estrategia Europea en ciberseguridad abordando aspectos que cubran, tanto el mercado de la ciberseguridad como la I+D y Roadmap Tecnológicos, así como aspectos regulatorios asociados (CRA, NIS2, AI Act, ...), y una reflexión sobre su traslación a nuestro contexto en ciberseguridad.



Ana Ayerbe

15:50 - 16:05 Success story: The importance of cybersecurity in international expansion processes**Asier Riaño** - Director of Customer Service and Systems - **GHI Hornos Industriales****Mikel Villar** Cybersecurity Business Unit Manager - **Irontec**

As part of its international expansion process, GHI develops innovative products in the field of Industry 4.0, applying Machine Learning and AI techniques. This product has been exceptionally well received in the international market, but faces the problem of responding to the cybersecurity requirements of potential customers who are concerned about the lifecycle of their data.

After an in-depth analysis and with the help of IRONTEC, the need was determined to carry out a regulatory adaptation of international certification in ISO 27001 which encompasses, on the one hand, the part of procedures in matters of information security, and on the other hand, the effective alignment of the standard with the implemented cybersecurity measures.

The results of this union translate into greater product visibility in cybersecurity-conscious markets, extra support in the commercial task, reduced entry time into new international markets, and a response to all the protection, confidentiality and traceability needs that the client required, among others.



Asier Riaño



Mikel Villar

16:10 - 16:25 Lecture to be confirmed

16:30 - 17:00 DISCUSSION PANEL: Cybersecurity data spaces

Participants:

- Etxahun Sanchez Bazterretxea - Responsable de Innovación - Perseus Cybersecurity Services
- Nerea Baez Zaldua - Managing director - JakinCode

Moderates:

- Maite Álvarez - Project manager - Tecnalía

Etxahun Sanchez
Bazterretxea

Nerea Baez Zaldua

Maite
Álvarez

17:00 - 17:05 Last conclusions

17:10 - 18:10 Afterwork Drink

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** Preliminary programme subject to change*