



Simposio Internacional / *International Symposium:*

Diseñando el futuro: innovación y tecnología para la empresa. Oportunidades y desafíos

*Designing the future: Innovation and technology for businesses.
Opportunities and challenges*

Madrid, 30 de noviembre de 2017 / November 30th, 2017

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Dr. Abel Sanchez holds a Ph.D. from the Massachusetts Institute of Technology (MIT). He is the Executive Director of MIT's Geospatial Data Center, architect of "The Internet of Things" global network, and architect of data analytics platforms for SAP, Ford, Johnson & Johnson,

Accenture, Shell, Exxon Mobil, and Altria.

In cyber security, Dr. Sanchez architected impact analysis of large-scale cyber attacks designing Cyber Ranges for the Department of Defense (DOD). In password security, Dr. Sanchez led the design of a password firewall (negative authentication) for the Intelligence Advanced Research Projects Activity (IARPA) agency. In machine learning, addressing fraud detection, Dr. Sanchez designed a situational awareness framework that exploits different perspectives of the same data and assigns risk scores to entities for Accenture. He led the design of a global data infrastructure simulator, modeling follow-the-sun engineering, to evaluate the impact of competing architectures on the performance, availability and reliability of the system for Ford Motor Company.

He has been involved in developing E-Educational software for Microsoft via their I-Campus Program and with establishing the Accenture Technology Academy, an online resource for over 200,000 employees. He has 10 years of experience with learning management systems and has made deployments in America, Asia, and Europe.

He teaches MIT courses on cybersecurity, engineering computation, and data science and has produced over 150 educational videos.