



Engineering the Digital Twin: A Benelux LMAG Visit to Siemens Digital Industries Software

The IEEE Benelux Life Members Affinity Group was treated to a captivating visit at the Siemens Digital Industries Software facility in Heverlee on December 5, 2024. The event, organized by former CTO Prof. Herman Van Der Auweraer, delved into the heart of industrial digitalization.

The company originally started as LMS, Leuven Measurement Systems, the second spin-off of KU Leuven in 1979, bringing advanced dynamic testing, analysis and simulation software solutions to the worldwide automotive, aerospace and other high-performance industry markets. After a successful expansion over 30 years, LMS was acquired by Siemens in 2013 to complement the Siemens Digital Industries Software portfolio with its unique solutions, to become the headquarters of the Simulation and Testing Solutions Segment.

Technical presentations showcased how the software addresses core industry shifts, from vehicle electrification to autonomous driving, emphasizing the pivotal role of AI and cloud computing. The tour brought this to life, featuring an acoustic test hall for NVH analysis, a high-fidelity vehicle sound simulator, and a thrilling 6-DoF Stewart platform driving simulator which participants could experience by themselves. The visit brilliantly illustrated the fusion of deep engineering knowledge with the power of the digital twin.