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## **Model-Driven Engineering (MDE)**

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Model-driven engineering (MDE) has been applied in several industry sectors to provide automated and semi-automated synthesis of executable code from models. Within the automotive industry, such approaches are used for the production of in-car control systems. MDE can be further extended to enable the automated synthesis of complete software systems from high-level logical goals. This could enable robotic and AI systems to autonomously implement software to extend their own capabilities according to required goals. An example of this approach are techniques for the correlation and integration of knowledge conforming to different ontologies, leading to the automated production of software to translate information between different data representations.

### **Biography**

Dr Lano has worked for 30 years in the fields of system specification and verification. He has over 250 published papers and has authored or co-authored 10 books. He was one of the originators of Model-Driven Engineering (MDE) and has been a leading advocate of improving the precision of software modeling and software development. In recent years he has worked on the integration of MDE and agile development.

### **Notes:**