World Money Fair 26 | Technical Forum

Titel

AI Powered Digital Minting: Case Studies and Evolution

Company

Royal Canadian Mint & Carveco

Abstract

This presentation explores the cutting-edge integration of artificial intelligence in the domain of digital minting, highlighting recent collaborative research and development efforts between the Royal Canadian Mint and Carveco. Through a series of innovative case studies, we will showcase how AI-powered capabilities are being applied to coin design and tooling design processes, driving new levels of creativity, precision, and efficiency.

About the Speaker

Robert Newman is Managing Director of Carveco specialising in Bas Relief Design and AI-driven innovation. With over 20 years in the high-tech industry, he brings deep cross-functional expertise across product leadership, global channel development, and digital transformation.

Robert leads with a belief that technology, can reshape industries and elevate design and accessibility at every level. His work supports some of the world's most iconic brands. A frequent public speaker, he welcomes collaboration with forward-thinking Minting Delegates ready to embrace innovation and create lasting impact.

Dr. Xianyao Li is a licensed Professional Engineer (P.Eng) in Canada and holds a Ph.D. in Materials Science and Engineering. As Chief Technology Officer at the Royal Canadian Mint, Dr. Li has played a pivotal role for more than two decades in developing and implementing some of the world's most advanced coinage and security technologies.

In his leadership role, Dr. Li combines deep technical expertise with strategic vision and practical innovation in minting and manufacturing. He is passionate about advancing sustainable manufacturing practices and fostering cross-sector collaboration to drive innovation in minting technologies.

Dr. Li holds several international patents and has co-authored technical handbooks that serve as Minting industry standards and Guidelines. His contributions are recognized through numerous peer-reviewed publications and technical presentations at global conferences.