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Nota di contenuto	Digital Twin Models in CBM Apps. A Framework for their Functionality Description & Requirements Analysis -- Understanding Opinions and Emotions of Generative Artificial Intelligence Assets using the Gartner Hype Cycle and Kübler-Ross Change Curve -- Optimising Solar and Battery Energy Storage System Using Yearly Interval -- Intelligent fault diagnosis method of robot joint-harmonic reducer based on EMD and

SVM -- Modelling Traffic Conditions in Developing Urban Areas: A Combined Approach of Explainable Artificial Intelligence and Mobile Crowd-Sourcing -- : Application of Unmanned Aerial Vehicle and YOLOv5 Model to Identify Water for Risk Assessment of Dengue Fever -- Development Perspective of Electrostatic Machine -- A novel method for gearbox fault diagnosis based on shift-invariant and shared dictionary learning -- Integrating Predictive Analytics with RAMS Analysis to Quantify Performance Improvement -- Incorporating Environmental Impacts and End-of-Life Potentials for Sustainable Asset Management Decision Making -- Increasing Asset Management Capabilities of Local Authorities in Sri Lanka; -- Assessment design before and after the emergence of generative AI -- Issues and Challenges in fault detection for commercial solar panels with Smart AI image processing techniques – A case study in an Australian utility company.

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#### Sommario/riassunto

17th WCEAM Proceedings provides a record of some of the intellectual discussions (including keynote addresses, research paper presentations, panel debates and practical workshops) that took place among the attendees and participants of the 17th World Congress on Engineering Asset Management (WCEAM), held from 18 - 20 October 2024 at the Sheraton Saigon Hotel and Towers, Ho Chi Minh City, Vietnam. The events were organized by the International Society for Engineering Asset Management (ISEAM) and hosted by RMIT University Vietnam LLC (RMIT VN), Ho Chi Minh City. The content of the book includes topics listed below under a general theme of Sustainable Management of Engineered Assets in a Post-Covid World: Industry 4.0, Digital Transformation, Society 5.0 and beyond Sustainable asset investment, acquisition, operations, maintenance, and retirement strategies Production-service transformation and product-service systems Sustainable asset acquisition, operations, maintenance, and retirement processes Modeling and simulation of acquisition, operations, maintenance, and retirement processes Reliability and resilience engineering Applications of the Fourth Industrial Revolution (4IR) technologies in EAM, e.g., Digital Twins Cybersecurity issues in asset management Asset condition, risk, resilience, and vulnerability assessments Asset management and decision support systems Applications of international and logical guidelines and standards in EAM Human dimensions and asset management performance Case studies of asset management in various industries and sectors This proceedings is an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students. .

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