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Science. -- Designing Geospatial Tools to Address Maternal and Infant Health Disparities: Analyzing Low-Birth Weight Patterns. -- LLM-Augmentation for Idea Evaluation: Developing a Reference Model for Evaluation Pipelines. -- A Design of Sensible Generative Artificial Intelligence Systems to Understand User Intent. -- Designing Grammar-Guided LLM Outputs for Open Data Integration – A DSR Approach to IoT Data Platforms. -- DSR Education. -- Artifact Validity in Design Science Research (DSR): A Comparative Analysis of Three Influential Frameworks. -- Designing Knowledge for Conversational AI Applications: A Bloom's Taxonomy Perspective. -- Designing a Large Language Model Based Conversational Agent for Language Acquisition. -- Designing Digital Infrastructures for Trans-situated Learning. -- Healthcare Systems, Ageing and Wellbeing. -- Towards Digital Pause: A Framework for Promoting Well-Being in Adults Through Conscious Unplugging. -- From Stress to Success: Designing a Diagnosis and Intervention Platform for Knowledge Workers. -- Designing for Trust: Integrating Self-Referencing in Large Language Model-Based Health Coaching.

Sommario/riassunto

The two-volume proceedings set LNCS 15703 and 15704 constitutes the refereed proceedings of the 20th International Conference on Local Solutions for Global Challenges, DESRIST 2025, which was held in Montego Bay, Jamaica, during June 2–4, 2025. The 36 full and 2 short papers presented in this book were carefully reviewed and selected from 111 submissions. The papers presented in these volumes are organized into the following topical sections:- Part I: Emerging DSR Methods and Novel DSR Applications; Data-Driven Design Science; DSR Education; Healthcare Systems, Ageing and Wellbeing Part II: Responsible Artificial Intelligence Design; Cybersecurity, Privacy, and Ethics; Innovation and Entrepreneurship; Sustainable Development and Environmental Solutions.
