P53 - Transformation in Business Model Ecosystems to Achieve Climate-Neutral Electrification with Smart Technologies

24. TECHNOLOGICAL CHANGE and BUSINESS MODEL INNOVATION **Koteshwar Chirumalla**¹ (Koteshwar.chirumalla@mdu.se)

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Track summary: In an era marked by digitalization, electrification, and the imperative of a circular economy, industries are undergoing profound structural changes that are reshaping traditional approaches to product development, services, production, and technology. These shifts have prompted a fundamental transformation in how industries operate, adapt, and innovate. In response, this special track focuses on examining the pivotal role of business model ecosystems to drive climate-neutral electrification. The track centers its attention on electric vehicles, batteries, charging/energy infrastructure, and the overarching goal of achieving climate neutrality. The core objective of this special track is to explore innovative strategies, transformative approaches, and dynamic business models that can propel the transition towards climate-neutral electrification within industries. With a distinct emphasis on the integration of smart and digital technologies, we seek a deeper understanding of the management challenges in these domains and aspire to uncover cuttingedge solutions that will pave the way for a sustainable, electrified future. Authors are encouraged to submit papers that: 1) Investigate how business models can be digitally transformed to expedite the adoption of electric vehicles and achieve climate neutrality, 2) Explore the pivotal role of batteries in realizing climate-neutral electrification, particularly focusing on the synergy between batteries and smart technologies, 3) Examine how smart and digital technologies are revolutionizing the development, accessibility, and business models surrounding charging and energy infrastructure, with an emphasis on climate neutrality. We eagerly anticipate submissions of empirical studies, case analyses, conceptual papers, and interdisciplinary research that address the multifaceted challenges and opportunities within this domain.

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