

Special session proposal for IJCIEOM 2025 conference SPS11

1. Session title:

Circular Ecosystems and systemic innovation – actors, structures, goals and flows for sustainability

2. Session objectives:

There has been growing interest on circular ecosystems, enabling more circular and resource efficient material flows in different industry sectors and society. The concept of circular ecosystem is inherently diverse and therefore this session calls for studies on industrial ecosystems, business ecosystems, innovation ecosystems, platform ecosystems and other types of system entities. This session aims to gather together studies that build our understanding of diverse circular ecosystems: How circular ecosystems organize, and how they are comprised or facilitated to enable circular flows? How human and material interplay is organized in the circular ecosystems? What is the role of technology development and innovation changing operations and flows in circular ecosystems? Circular ecosystems typically spread over conventional industry boundaries and incorporate not only industrial actors, but also public sectors as well consumer-citizens, raising more questions: how to sense make and manage sector-crossing circular ecosystems, where resources need to flow over industry borders. And what is the role of non-industrial actors in circular ecosystems (such as regulators, policy makers, public sector and consumer citizens)?

3. Organizer(s):

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