Conf-IRM 2027 Bogota, Colombia, 31 May – 2 June, 2027

Conference Theme: **Intelligent & Fragile Infrastructures: Governing Complexity in Information Systems**

Track Number	4
Track Name	Socio-Technical Design for Resilience & Human Capability
Track Chair	**Sonia Camacho** (Universidad de los Andes, Colombia), so-camac@uniandes.edu.co **Indrapriya Kularatne** (Auckland International Campus, Otago Polytechnic and Future Skills, New Zealand), indrapriya@op.ac.nz
Track Description	Over the last decade, we have witnessed the exponential development of emergent technologies (e.g., AI, robotics, automation, data-driven platforms) that have transformed the business landscape and that require the transformation of human capabilities needed to perform job processes. Amid these rapid advances, there are concerns around the limits of such technologies and recommendations to "keeping humans in the loop". This requires that information systems and technologies must be purposefully adapted to human needs, agency, and contexts. Researchers are invited to submit their work focusing on analyzing, designing, and evaluating alternatives such that digital technologies can actively incorporate and promote human capabilities, well-being, and organizational resilience. Conceptual, empirical, and methodological submissions are welcomed on topics including, but not limited to: 1. **Human-Centric & Inclusive AI Design:** Designing intelligent systems that augment human decision-making, autonomy, and capabilities rather than replacing them. 2. **Socio-Technical Systems for Organizational Resilience:** Exploring how IT infrastructure and architecture support adaptiveness, crisis response, and continuous business functioning during environmental, economic, or social disruption. 3. **Information Systems for Human Capability and well-being:** Applying capability frameworks to assess technology's contribution to human empowerment, digital inclusion, and quality of life. 4. **Human-in-the-Loop Frameworks & Practice:** Critical evaluations and practical implementations of meaningful human control, oversight, and intervention mechanisms in automated workflows**.** 5. **Empirical Case Studies & Methodological Innovations:** Novel socio-technical frameworks, participatory design techniques, and field studies in varied socio-economic contexts—especially across emerging markets and diverse socio-cultural settings. 6. **Sustainable and ethical Digital Transitions:** Examining how digital technologies and socio-technical design can support environmental sustainability, climate adaptation, circular-economy practices, and equitable transitions for workers, organizations, and communities.