

Dear Organizing Committee,

Please find attached our extended abstract entitled "Simulation-Based Measurement of Information Value in Circular Economy Networks" for consideration at the 20th IMEKO TC10 Conference on Measurement for Diagnostics, Optimization and Control to Support Competitiveness and Innovation.

The paper proposes a simulation-based framework for quantifying the operational value of information sharing in cooperative circular production networks. Using a demonstrative European spare-part fulfilment network implemented in AnyLogic, the study compares three information-sharing scenarios and evaluates their effect across service, circularity, economic, and environmental performance dimensions. The contribution is a diagnostic simulation concept that connects measurement-oriented decision support to circular economy network operations, which we believe aligns well with the conference track on Diagnostics, Optimization and Control for sustainability and innovation.

The full six-page paper will be developed upon acceptance, including extended simulation results, sensitivity analysis, and a more detailed discussion of the decision logic underlying each scenario.

Thank you for considering our submission.

Kind regards,

A handwritten signature in black ink, appearing to read 'László Zahorán'.

László Zahorán
on behalf of the authors

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