

Special Session
Eco-design for Product-Service Systems
IPSS'2015: <http://ipss2015.emse.fr/>

Scope

PSS offer the opportunity to combine innovative eco-designed products with useful and intangible services. As a preventive and systematic approach eco-design seeks to integrate the environmental aspects of system at each stage of its life cycle (and other included loops: remanufacturing, upgrading, etc.). Eco-designed products are balanced in terms of technical, environmental, and economic performances, whereas PSS approaches are not always designed to be sustainable. Strategies of remanufacturing the product for instance can be anticipated during design, which may imply involving competencies and know-how from other domains. In addition the business strategy of the company providing the service to customers can be revisited: dematerialisation can be adopted in some case. PSS therefore offer opportunities to rethink business-as-usual practices in detail and at each level of decision: business strategy, project management, product design processes.

The appropriate use of **transdisciplinary knowledge required to influence decision-making** is considered. Which tools and methods are appropriate to support this decision in a transdisciplinary collaboration context of PSS; and which tools are required to assess the sustainability added value of such a business, making its transition toward sustainable PSS?

The session is open to every theoretical and applicative contribution to eco-design for product-service systems within the scope of sustainability and involving transdisciplinary collaboration.

This session welcomes research contributions to this topic that have integrated specific organisational innovation supports in the development of eco-designed PSS in industry.

Session Organizers

Tatiana Reyes, CREIDD- UTT, tatiana.reyes@utt.fr

Romain Allais, CREIDD-UTT, romain.allais@utt.fr

Rio Maud, G-SCOP-UJF, maud.rio@g-scop.eu

Topics/ Keywords

- Eco-design tools and methods (life cycle thinking and assessment)
- Tools developments applied to product-service systems: environmental analysis, life cycle assessment for sustainable product-service systems, interoperability between multi-domain product design tools, etc.
- Sustainable value chain (sustainable logistic, end of life strategies) for PSS
- Eco-design strategies for PSS (sustainable manufacturing, DFX, etc.)

Submission procedure

Acceptance of papers is based on review of the full manuscript (up to 6 pages). Instruction for authors is available on <http://ipss2015.emse.fr/>

When submitting on the web site, you have to indicate (1) the name of the Conference IPSS 2015, then (2) the name of the special session. Please follow the submission procedure on: <http://ipss2015.emse.fr/>, with copy of your paper sent by email to the chairs of the special session.

Dead line for submission of full papers of special sessions: **January, 31st 2015.**