



Special Session

From Cost Estimation to Cost Engineering in Industrial Product Service Systems

IPSS 2016: <http://ipss2016.unibg.it/>

Scope

Industrial Product-Service Systems (IPS²s) are integrated and mutually determined valuable co-created offerings of an extended product with its service shares that delivers added-value in industrial applications by means of function-, availability- or result-oriented business models. IPS²s value constellations are supported by business-to-business relationships in extended value networks where risks, resources, responsibilities and rewards are shared among IPS² partners acting as a joint entity in order to deliver the service level agreement contracted by the customer. In this context, IPS²s value offerings represent socio-technical solutions where the separation between a tangible product and intangible service(s) is no longer feasible and creates new interactions and financial flows during the entire lifecycle of both the product and its integrated service(s), giving shape to the IPS²s business model – including cost structures and revenue streams. From a costing perspective, IPS²s represent a new challenge for *Cost Engineering*, in terms of Whole Life Cycle Costing (WLCC) and Through Life Cycle Costing (TLC). “Whole” and “through” words acquire a broader and more holistic meaning including not only an integrated analysis of the product life cycle costs, but also its service(s) life cycle(s) expenditures, since an IPS² costing is greater than the sum of the life cycle cost of its parts.

Cost Engineering is defined as “the area of engineering practice where engineering judgment and experience are used in the application of scientific principles and techniques to problems of cost estimating, cost control, business planning and management science, profitability analysis, project management, and planning and scheduling”, according to the Association for the Advancement of Cost Engineering (AACE). This special session calls for position and practitioner papers moving forward from – cost estimation – techniques to more scientific – cost engineering – approaches for IPS² offerings costing, as well as for papers exploring the limited existence of IPS² costing analysis. Furthermore, due to their strong relation to IPS²s, service costing approaches are very welcome too.

Session Organizers

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Topics/ Keywords (not limited to)

- IPS²/PSS Cost Engineering Principles
- IPS²/PSS Cost Engineering Modelling Approaches
- IPS²/PSS Cost Engineering Techniques
- IPS²/PSS Cost Engineering Assessments
- IPS²/PSS Cost Engineering Prediction Models
- IPS²/PSS Cost Engineering Case Studies

Submission procedure

Acceptance of papers is based on review of the full manuscript (up to 6 pages).

Instructions for authors are available on <http://ipss2016.unibg.it/>

To ensure the correct identification of the manuscript for inclusion into the correct Procedia Special Issue, it is important to select "**SI: 8th IPSS 2016**" for the "Article Type".

When submitting please indicate the name of the special session in the "**Comments**" section.

Please follow the submission procedure on: <http://ipss2016.unibg.it/>, 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: 15th December 2015.