Abstract

Development of quality software is the prime need of the development world. Proper planning and requirement analysis are the contributory factors for the successful development of a system or software. The cost being an important factor to be considered for any such development requires a deep insight for its estimation in advance. With the increased requirement of complex systems, the need of a quality software meeting the cost, schedule, and performance targets as per the estimations and plans is also needed. Systems engineering concepts, tools and technologies play a vital role in achieving the targets associated with any development project. Thus, to ensure the achievement of goals in an effective manner, the Systems Engineering (SE) tools and technologies are to be revived to match its pace with the requirements. A brief introduction of System Engineering and its relevant concepts has been presented in this paper. The Productive System Engineering Model has been introduced with its implementation and performance evaluation. The paper described the implementation of the proposed model in a real world.


Index Terms

Computer Science
Software Engineering

Keywords
Systems Engineering, Size Drivers, Cost Drivers, Cost Estimation, Cost Estimation Relationship