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### Authors: Rwamuhinda Dick, Abednego O. Gwaya, Githae Wanyona

**Paper Title:** Application of Value Management in Conception of Construction Projects in Rwanda

**Abstract:** Value Management (VM) and Value Engineering (VE) are techniques concerned with defining, maximizing and achieving “value for money”. It should be noted that VM is not about reducing the cost but about adding value and where necessary the cost can be added to achieve value. Despite its proven significance in securing maximum output from limited resources, this approach is not a common practice in Rwanda’s construction Industry. This study therefore defines VM and describes all the processes and techniques involved in it. The merits and demerits of VM process in construction projects are discussed in details and relevance of its uses is discussed and recommended in consideration of the scope and complexity of the projects as well as the risks involved. While the benefits of a value management review are often perceived in terms of improved quality and reduced cost, this report discusses the exercise as a functional mechanism to measure value, taking into account monetary and non-monetary benefits and thus demonstrating value for money. While the author has not been able to obtain relevant literature on VM practice in Rwanda, It can be deduced from the review of the related literature that most of the evaluation techniques conducted for construction projects in developing world have mostly relied on evaluation of project performance in terms of cost, quality, delivery and progress. Since project evaluation is carried out after the work has been undertaken, the output of the analysis will just give the client an indication or a good understanding of the project performance. Such evaluations only reveal the competence or incompetence of the project participants instead of providing value for money which is addressed by VM practice which is an ex-ante analysis that takes into consideration of all value parameters. The study used a quantitative survey method of research to obtain responses from professional practitioners in construction industry in Rwanda. The sample size of 115 were selected from members of professional practitioners in the construction industry out of which 106 members were responsive. Finally, it is concluded that VM approach is not used in construction industry in Rwanda and recommended that VM practice be adopted in construction industry in Rwanda as a mandatory requirement for conception of all construction projects with a budget of $20M and above.

**Keyword:** Conception of construction projects, Construction projects, value engineering, value management.

**References:**
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### Authors: Harisimrat Singh, Chetan Marwaha

**Paper Title:** Fog Computing: Terminologies, Architecture and Challenges

**Abstract:** Internet of things (IOT) made the world connected to each other through Internet. These gadgets are important to store data, to exchange data and to collect data from other sources. These devices are not perfectly capable to cooperate with data centers directly based on some parameters such as latency, resource availability, load balancing, scheduling and security. Fog computing (FC) paradigm is introduced to overcome the problems of these parameters. As it cooperate with centralized data centers. This paper presents a survey on Fog computing terminology. Here, the term fog computing has been discussed. Further its architecture, its challenges are highlighted. An overview of further research work related to dynamic job scheduling has been discussed.

**Keyword:** Internet of things, Fog computing, Cloud computing, Latency.

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