Editorial Note
Volume 10: 7, 2021

Journal of
Applied & Computational Mathematics

ISSN: 2168-9679 Open Access

Editorial Note on Integrated Analysis

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System integration involves integrating existing, often disparate systems in such how "that focuses on increasing value to the customer (e.g., improved product quality and performance) while at an equivalent time providing value to the corporate (e.g., reducing operational costs and improving response time). within the times connected by Internet, the role of system integration engineers is important: more and more systems are designed to attach, both within the system under construction and to systems that are already deployed.

Star integration, also referred to as spaghetti integration, may be a process of systems integration where each system is interconnected to every of the remaining subsystems. When observed from the attitude of the subsystem which is being integrated, the connections are like a star, but when the general diagram of the system is presented, the connections appear as if spaghetti, hence the name of this method. the value varies due to the interfaces that subsystems are exporting. During a case where the subsystems are exporting heterogeneous or proprietary interfaces, the mixing cost can substantially rise. Time and costs needed to integrate the systems increase exponentially when adding additional subsystems. From the feature perspective, this method often seems preferable, thanks to the acute flexibility of the reuse of functionality

System integration are often challenging for organizations and these challenges can diminish their overall return on investment after implementing new software solutions. a number of these challenges include lack of trust and willing to share data with other companies, unwillingness to outsource various operations to a 3rd party, lack of clear communication and responsibilities, disagreement from partners on where functionality should reside, high cost of integration, difficulty finding good talents, and customary API standards. These challenges end in creating hurdles that “prevent or hamper business systems integration within and among companies”. [11] Clear communication and simplified information exchange are key elements in building future system integrations which will support business requirements.

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How to cite this article: Damore Cassie. Editorial Note on Integrated Analysis. *J Appl Computat Math 10 (2021):e115*

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Received 01 July 2021; Accepted 15July 2021; Published 22 July 2021