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## Management Gradients Vis-à-Vis Information Science: Towards Potential Information System Building

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**Abstract:** Management is a process or mechanism to manage any facets or things which may either be tangible or intangible in nature. In other sense, management is an art of techniques to manage the asset. The study and academic domain of management is called as Management Science. Practically, management is applicable in almost all the sectors or academic domain. In computer science, medical science and even sociology there is a full-fledged role and importance seen as far as management is concerned. In Information Science also management plays a lead role. Traditional Information Science or computational Information Science, Management may be applied in several places. This paper talks about management, its requirement, role of management in information science both the traditional and contemporary and future potential.

**Keywords:** Management; Techniques; Administration; Information and knowledge; Development; Information Science; Information Management; Information Systems; Information Infrastructure.

### 1. Introduction

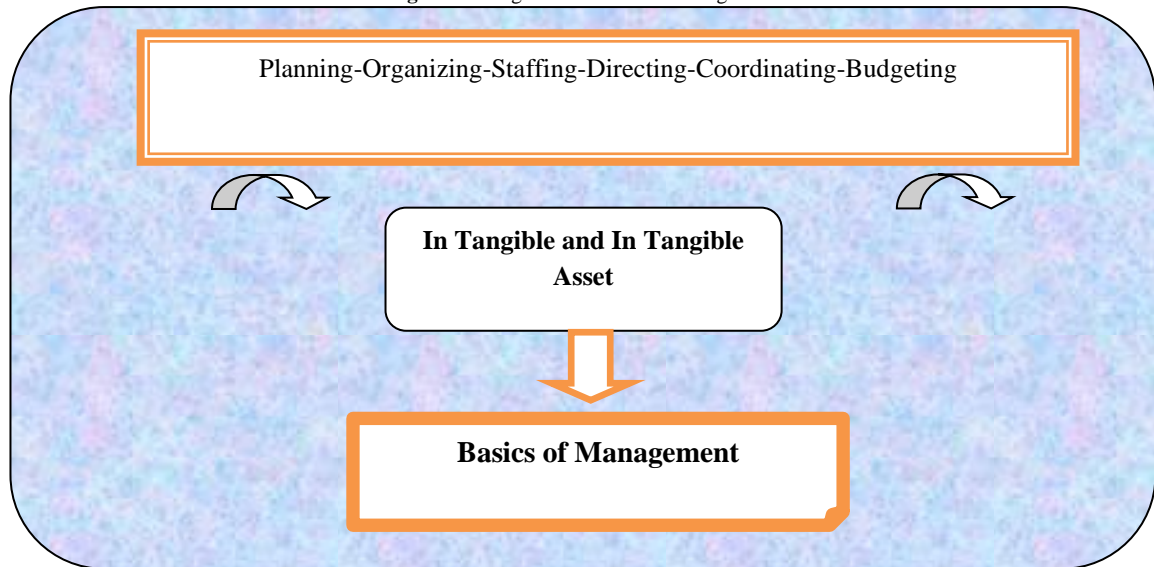
Information Science is talks about information, which includes several information, related happening collection, selection, organizing, processing, management and dissemination. Mistakenly, Information Science is considered as Information Technology or Computer Science among the general people and even academic community. Some academician think that, Information Science is actually synonymous with Library Science or advance nomenclature of Library Science; though it is nor Computer Science/ Information Technology or Library Science (Abeysekera and Guthrie, 2004), (Paul, 2013a). It is actually a broad a broad field than these fields and basically incorporated as interdisciplinary domain responsible for information processing and management. Thus, because of information dealing it uses some principles of Library Science and used computational technologies for information processing and management. So it is a big domain than Library Science or IT and incorporated with some other fields like Management, Psychology, and Cognitive Science, Mathematical Science, Information Studies and obviously huge gradients of IT and Library Science for dealing traditional and contemporary information activity. Management plays an important role in traditional Information Science Practice which is mainly surrounded around Information foundations and organization (Agarwarl, 1989), (Paul, 2013b), (Paul *et al.*, 2013). However the contemporary Information Science practice also depends on Management several ways.

### 2. Objectives

The main objective of this study is include but not limited to as follows:-

- To learn basic about Information Science and its main role.
- To learn basic about management and Management Science.
- To know general applications of Management Science-both in traditional Information Science and Computational Information Science.
- To find out existing, probable and possible domain Information Science and Management integration.

Fig-1. Showing fundamentals of management

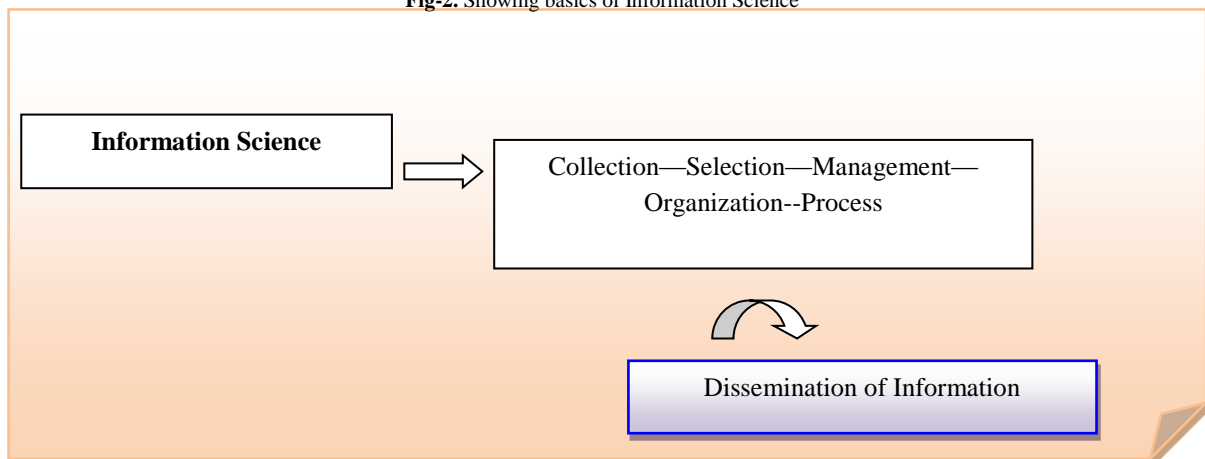


### 3. Management: Basics

Management is one of the important techniques which is applicable in all most all the sector and domain. Management techniques are applicable in profit making as well as nonprofit making organization. Management is taking the helps of several components and facets which help the management. Planning, organization, staffing [Human Resource Management], directing, coordinating, reporting and budgeting are the key matters which are very essential to manage anything. Any activities, institution, function, when need to apply depending upon requirement (Balwan and Kapila, 2004), (Paul, 2013b). Practically management is activity or techniques where as Management Science is the domain of management to the academicians and researcher. Management and its application and integration results several domain or sub domains of management; these are Financial Management, Marketing Management, Human Resource Management, Banking Management and so on.

There are several weapons which helps better management practice are SWOT Analysis, strategic management, Total Quality Management, Management By Objective, Policy Making, and so on. Practically all these principles and weapons listed above are useful in Information Science practice; i.e. Information Processing and Management (Bansal, 2005), (Buckland and Liu, 1995), (Paul, 2013c), (Paul, 2013d).

Fig-2. Showing basics of Information Science

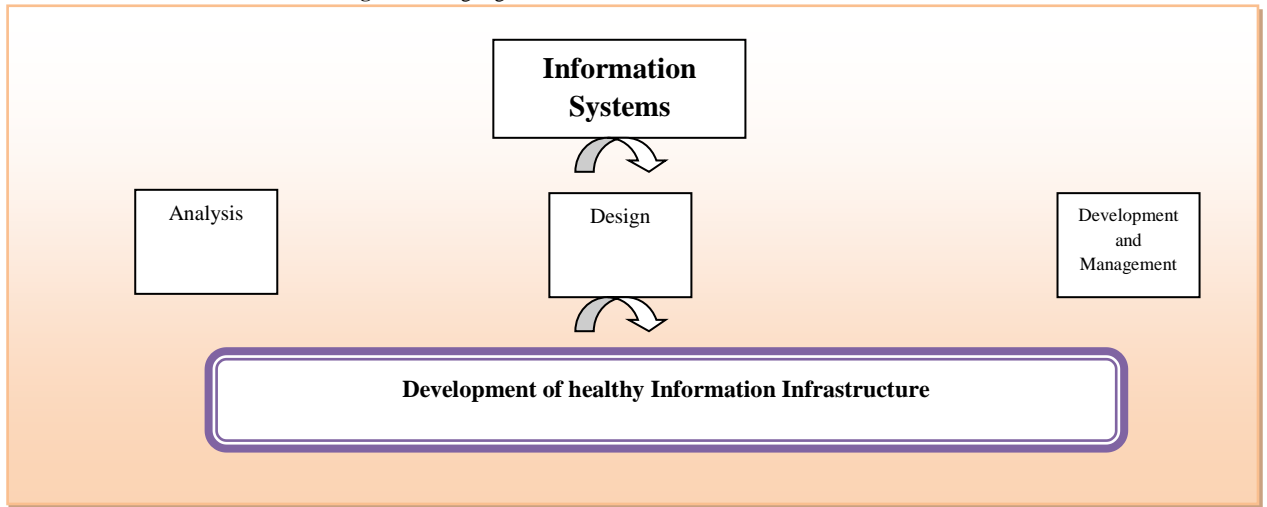


### 4. Information Science

Information Science is an interdisciplinary domain of domains responsible for several information activities like collection, selection, organization, processing, management and dissemination. Though; due to similar name it is considered as IT/ Computer Science not only in general community but also in academic community. Some expert thinks it is a new name of Library Science (Paul, 2013c), (Vickery, 1994). However it is a Information field biased and focused with several tools and technologies such as Database Management Systems, Networking Systems, Communication Technology, web Technology, Information Retrieval Systems and so on. Due to availability of these knowledge gradients in the course people think that it is IT/ Computer Technology; but apart from these, Information Science also included some gradients of information and knowledge organization; which differs Information Science and Information technology. There are some other fields which also incorporated Information Science; these are

management, cognitive science, sociology and legal studies; operation research and statistics and so on (Wang *et al.*, 2010), (Paul, 2013e).

Fig-3. showing organizational context of Information Science



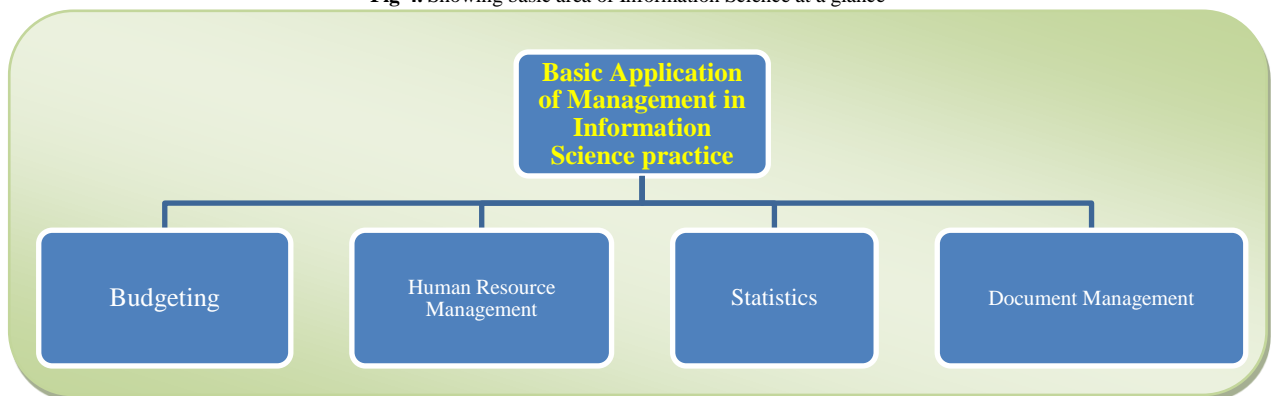
## 5. Management in Information Science

Management is applicable in several information activities; from the beginning of Information Management, management is applicable. Virtually Information collection, selection, organization, processing and management need several management affiliations (Paul, 2013b), (Boyd, 1997), (Kintsch, 2003).

We already study that, Information Science has two foci, in traditional foci it deals with several traditional information organization tools such as indexing, abstracting, cataloguing, and classification. The traditional Information Science fields are information foundations like Data Centre, Documentation Centre, Information Centre, Information and Knowledge Networks, Traditional Libraries, Knowledge Grid and so on. Practically all these centers run by human being and deals with traditional knowledge goods like Books, Journals, Encyclopedias, and so on.

- ✓ There are several places management is applicable like planning of information center, planning of documents selections, planning Human Resource, services and facilities, Building and other up gradation needs the management weapon, called 'Planning Management'.
- ✓ Simultaneously document collection, processing and management need the help of Management and allied techniques;
- ✓ Creating cadre of human resource for information centers and similar foundation needs the affiliation of management, staff management, recruitment and selection, promotion, motivation need the help of management.
- ✓ Running organization needs fund and financial asset the traditional information center or computational information systems basically deals with several computational tools and machine all these needs to by and time by time up gradation; thus there is a continuous fund management is essential. Collecting money from the user/ customer also need to utilization of financial management;

Fig-4. Showing basic area of Information Science at a glance



- ✓ Management general office of traditional information science foundation such as Documentation Centre, Data Centre, Libraries need general management principles; apart from these computational Information Science is practiced in each and every type of organization for better Information Systems building and information management; thus here also general principles of POSDCORB is applicable;
- ✓ Budgeting and Budgetary control is very much important for traditional Information Science foundation management and computational Information Systems' Audit;
- ✓ Annual report preparation of the organization and computational Information Systems is also important to get affiliation from management tools;
- ✓ Apart from these, general maintenance, stock verification, information reorganization needs the help of management sciences;
- ✓ Formation of committee also to some extent related with management principles and thought as far as Information Foundation is concerned.

## 6. Management and Information Science integrated Courses

Due to relationship between Information Science and Management, so many courses emerged around the world like Information Management, Information and Knowledge Management, Information Resource Management, Information Systems Management, IT Management, Library and Information Center Management and so on.

The general nomenclatures of these programmes are BBA/MBA-Information and Knowledge Management, MSc- Information and Knowledge Management,, Bachelor of Information and Management [BIM], Post Graduate Diploma in Information Management and so on. In India till now Information and Management integrated interdisciplinary programmes are MET, Mumbai University, Osmania University, ISIM-Mysore University, DDE-Kurukhstra University Delhi Technological University and some other institutions.

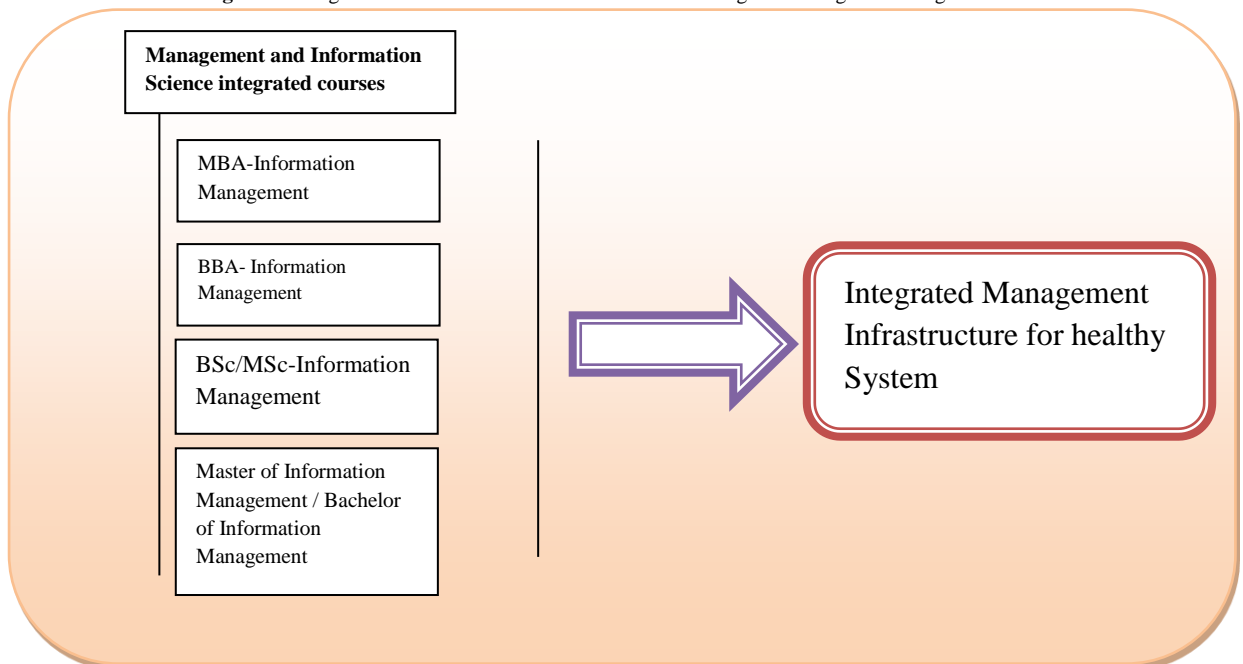
## 7. Findings

- Information and Management integration lead the launch Information and Knowledge Management as a programme of study.
- The integration of Information Science and Management Science is increasing day by day.
- Computer Information Processing and dissemination also depends on Management principles and practice.
- Proper Information Service and Systems needs management interaction.

## 8. Suggestion

- Both traditional information center and computational information systems needs sophisticated management practice for better utilization.
- Academician need to start various programmes on 'information and management' and related interdisciplinary domain.
- Proper awareness is very much essential among the leaders of information function for its better nursing.

Fig. 5. Showing academic innovation of Information and Management integration at a glance



## 9. Conclusion

'Information and Management' is very much important term in today's age of information. Today's age is called information society; actually better information transformation lead the evolution of information society is many ways depend on management practice; more clearly sophisticated management practice. All most all the organization and institutions is the user of information and this is valuable not only for the concerned time but also for future purposes; thus a healthy strategy is very much urgent better information management; and ultimately to reach Knowledge Economy.

## Reference

- Abeysekera, I. and Guthrie, J. (2004). How is intellectual capital being reported in a developing nation Research *Accounting in Emerging Economies, Supplement 2: Accounting and Accountability in Emerging and Transition Economies*: 149-69.
- Agarwal, S. (1989). *Development of documentation in India: social science information*. Concept Pub. Co: New Delhi, India. 331.
- Balwan, S. and Kapila, P. C. (2004). Search engines: Tools for library. *Annals of Library And Information Studies SL*, 3: 93-98.
- Bansal, A. (2005). Securing the future of information: Digitization and preservation of documents in e-format. *DESIDOC Bulletin of Information Technology*, 25(1): 19-26.
- Boyd, R. W. (1997). The origin of information science and the international institute of bibliography/ international federation for information and documentation. *Journal of the American Society for Information Science*, 48(4): 289-300.
- Buckland, M. K. and Liu (1995). History of information Science. *Annual Review of Information Science and Technology*, 30: 385-416.
- Kintsch, W. (2003). *On the notion of theme and topic in psychological process models of text comprehension*, in: *W.v. Peer, Parsing for the theme. A computer based approach*. John Benjamins Publishing: Amsterdam, Philadelphia. 158-70.
- Paul, P. K. (2013a). Information science and technology (ist) and its comparison with information technology and social computing. *Abhinav National Journal of Science and Technology*, 2(3): 17-25.
- Paul, P. K. (2013b). Service Science nature in information Science: Overview. *Abhinav National Journal of Commerce and Management*, 4(2): 176-81.
- Paul, P. K. (2013c). Community Science and technology (cst) from meaning to possible areas and facet at a glance. *Abhinav National Journal of Arts and Education*, 2(3): 13-18.
- Paul, P. K. (2013d). Community informatics and its contemporary conceptual , methodological and technical issues with special reference to social issue. *Abhinav National Journal of Commerce and Management*, 4(2): 149-56.
- Paul, P. K. (2013e). Social computing and social informatics: The stakeholders of knowledge society emphasizing similarities and dissimilarities at a glance. *Abhinav National Journal of Science and Technology*, 2(4): 25-32.
- Paul, P. K., Govindarajan, Dipak, Chaterjee , R. and Bhatnagar (2013). Information systems and information science: Overview emphasizing comparative study. *SIT Journal of Management*, 3(1): 336-41.
- Vickery, B. C. (1994). Fifty Years of information progress. *A Journal of Documentation Review, London, England: ASLIB*: 243.
- Wang, C. Q., Wang, K., Ren and Lou, W. (2010). Privacy-preserving public auditing for data storage security in cloud computing. *Proceedings of IEEE-INFOCOM, March*: 1-9.