Data Intensive Research at Raman Research Institute: A case study of challenges and perspectives employing questionnaire survey and ETD repository

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Abstract

Raman Research Institute (RRI), a pioneering institute of research in physics, started in 1948 has ongoing research activities in Astronomy & Astrophysics, Light & Matter Physics, Soft Condensed Matter and Theoretical Physics. RRI specializing in physics has witnessed data intensive research. This paper is a case study aiming to understand the challenges faced by graduate students and their perspectives in data intensive research at RRI regarding - Data types; collection methods; storage and access; Data processing; Legal and Ethical issues.

To understand the perspectives of the present students, questionnaire survey will be conducted. We plan to elicit information of the past students, already graduated by consulting their theses (ETDs) archived in RRI digital repository. We also attempt a verification cycle by seeking feedback from respective student/guide on our above evaluation.

Inferences will be drawn based on the analysis of the responses received in the questionnaire survey and information captured from ETD repository. These will be validated against the hypothesis. Inferences thus drawn is hoped to help us in capturing the trend in scientific research in this era of big data.

On the authors:

Dr. Meera B. M. is currently working as Librarian at Raman Research Institute, Bengaluru, India since April 2011. Before this, her assignment was with Indian Statistical Institute, Bengaluru as Associate Scientist in the Library for 24 years. She acquired B.Sc, B.Lib.Sc. and M.Lib.Sc from University of Mysore. She obtained Ph.D. in 1998 from Bangalore University. She has published More than 40 research papers in international and national peer reviewed journals and presented papers in international and national conferences. She is on various committees for staff selection process. She is also resource person in many academic activities at India. Currently she is the Vice President of Karnataka State Library association. Her research interest includes Scientometrics, Total Quality Management, Open source, Institutional/Digital repositories and Electronic Information Resources.

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