ASCRRIN Project: Smart Healthcare: Techno-Economic Aspects of Digitalization of Secure Healthcare Services in India and Australia

Overview

Australia's My Health Records (MHR) system breach reduced from 42 to 38 in 2019 and imposed costs nearly $2 billion. In India, recent reports reveals that confidential patients’ data has been used without their consent.

The healthcare service providers generate and store the data for in-home reviews for quality enhancement and post treatment care purposes. Electronic Health Records (EHR) breach will impose risk of harm. Thus, there is a need for efficient EHR secure healthcare services. As part of the research design, deep learning will be used along with the Context-Aware Access Control (CAAC), economic and ethical methods in defining dynamic safety and security policies.

We are seeking outstanding PhD applicant to work on the project.

Eligibility Criteria

- Applicant must be able to demonstrate relevant research, analytical skills and strong interest in the areas of: Healthcare services, econometric/statistical/mathematical modelling, data analysis, and, institutions
- Applicant should meet both Indian Institute of Technology Kanpur (IIT-K) and La Trobe University (LTU) entry requirements. See the following web page for entry requirements:
  1) IIT-K: https://www.iitk.ac.in/doaa/post-graduate-admission
  2) LTU: https://www.latrobe.edu.au/study/apply/research/doctor

Application Process

Applicant who require more information or are interested in this specific project should first contact the listed Supervisors: IIT-K supervisors: Murali Prasad Panta (mpprasad@iitk.ac.in), Praveen Kulshreshtha (pravk@iitk.ac.in) and LTU supervisors: ASM Kayes (A.Kayes@latrobe.edu.au), Wenny Rahayu (W.Rahayu@latrobe.edu.au), Naveen Chilamkurti (N.Chilamkurti@latrobe.edu.au).

Information and guidance on the application process and scholarships can be found on this website.

Closing Date

TBA