A recommendation system on educational resources for the rapid response to syphilis project

Grilo de Morais P ¹ , Dantas da Silva R ¹ , de Medeiros Valentim R ¹ , Pereira de Oliveira C ^{1,2} , Dantas Coutinho K ¹ , Roussanaly A ³ , Boyer A ³

Syphilis is a Sexually Transmitted Infection (STI) which the Brazilian Ministry of Health has acknowledged an epidemic since 2016. To face such a problem, it is essential to develop and implement educational actions enhanced by information and communication technologies to qualify, train and raise awareness nationally. Considering the increasing number of Open Educational Resources developed, existing open health repositories and other digital platforms that allow interaction in the Brazilian Unified Health System (SUS) as well as the vast number of Healthcare Information Systems, it is essential to the develop solutions to efficiently and costly recommend content accordingly to the interest of health professionals and the current needs and priorities of the SUS, such as the epidemic of syphilis. The system of formative recommendation which is being developed include a set of algorithmic approaches in order to handle the variety of information systems and suggest appropriate, personalized, and curated health content. It integrates health surveillance, formative needs, georeference of health teams and professionals, and epidemiological data to recommend content to health professionals all over the country. The system also takes into consideration individualized behavioral data to reflect ones interests, promoting lifelong learning and strengthening existing educational ecosystems. This is an inter-institutional research which is being developed by the Laboratory of Technological Innovation in Health at the Federal University of Rio Grande do Norte, Brazil, and the Lorraine Research Laboratory in Computer Science and its Applications at the University of Lorraine, France. The project is funded by the Brazilian Ministry of Health.

¹ Laboratory of Technological Innovation in Health at Federal University of Rio Grande do Norte - LAIS/UFRN, Natal Rio Grande do Norte, Brazil

² State University of Rio de Janeiro - UERJ, Rio de Janeiro Rio de Janeiro, Brazil

³ University of Lorraine, Nancy Lorraine, France