

Title Talk

A health data analytics maturity model for hospitals information systems

Álvaro Rocha

ISEG, University of Lisbon, Portugal

E-mail: amrocha@gmail.com / amr@iseg.ulisboa.pt

Summary: In the last five decades, maturity models have been introduced as reference frameworks for Information System (IS) management in organizations within different industries. In the healthcare domain, maturity models have also been used to address a wide variety of challenges and the high demand for Hospital IS (HIS) implementations. The increasing volume of data exceeds the ability of health organizations to process it for improving clinical and financial efficiencies and quality of care. It is believed that careful and attentive use of Data Analytics in healthcare can transform data into knowledge that can improve patient outcomes and operational efficiency. A maturity model in this conjuncture, is a way of identifying strengths and weaknesses of the HIS maturity and thus, find a way for improvement and evolution. This talk presents a proposal to measure Hospitals Information Systems maturity regarding Data Analytics. The outcome is a maturity model, which includes six stages of HIS growth and maturity progression.

Speaker Details and Photo

Name: *Álvaro Rocha*

Email ID: amrocha@gmail.com / amr@iseg.ulisboa.pt

Phone/WhatsApp No: +351 961539027

Recent Photograph:



Short-Bio

Álvaro Rocha holds the title of Honorary Professor, and holds a D.Sc. in Information Science, Ph.D. in Information Systems and Technologies, M.Sc. in Information Management, and BCs in Computer Science.

He is a Professor of Information Systems at the University of Lisbon - ISEG, Invited Full Professor at the University of Calabria, Honorary Professor at the Amity University, researcher at the ADVANCE (the ISEG Centre for Advanced Research in Management), and a collaborator researcher at the CINTESIS (Center for Research in Health Technologies and Information Systems). His main research interests are maturity models, information systems quality, online service quality, requirements engineering, intelligent information systems, e-Government, e-Health, and information technology in education.

He is also Vice-Chair of the IEEE Portugal Section Systems, Man, and Cybernetics Society Chapter, and Founder and Editor-in-Chief of two Scopus and SCIMago journals: JISEM - Journal of Information Systems Engineering & Management; and RISTI - Revista Ibérica de Sistemas e Tecnologias de Informação / Iberian Journal of Information Systems and Technologies. Additionally, he is the Scientific Manager of the Information Systems Engineering & Management book series at Springer-Nature, the world's leading publisher of publications in Science, Technology and Health.

Moreover, he has served as Vice-Chair of Experts for the European Commission's Horizon 2020 Program, and as an Expert at the COST - intergovernmental framework for European Cooperation in Science and Technology, at the European Commission's Horizon Europe Program, at the Government of Italy's Ministry of Universities and Research, at the Government of Latvia's Ministry of Finance, at the Government of Mexico's National Council of Science and Technology, at the Government of Polish's National Science Centre, at the Government of Cyprus's Research and Innovation Foundation, and at the Government of Slovak's Research Agency .

Álvaro Rocha is World's 1% Top Scientists by Stanford University and Elsevier, World's Top 0.05% Scientist by ScholarGPS, and World's Top 1% Scientist by ResearchGate.