PODS 4H 2018

International Workshop on Process-Oriented Data Science for Healthcare 2018

*–in conjunction with the **International Conference on Business Process Management (BPM 2018)** in **Sydney** on **Sep 10, 2018**–*

The world's most valuable resource is no longer oil, but data. The ultimate goal of data science techniques is not to collect more data, but to extract knowledge and insights from existing data in various forms. For analyzing and improving ***processes***, event data is the main source of information. In recent years, a new discipline has emerged combining traditional process analysis and data-centric analysis: ***Process-Oriented Data Science*** (PODS). The interdisciplinary nature of this new research area has resulted in its application for analyzing processes in different domains such as education, finances, and especially healthcare.

The ***International Workshop on Process-Oriented Data Science for Healthcare 2018 (PODS4H18)*** aims at providing a high-quality forum for interdisciplinary researchers and practitioners (both data/process analysts and medical audience) to exchange research findings and ideas on healthcare process analysis techniques and practices. PODS4H research includes a wide range of topics from process mining techniques adapted for healthcare processes, to practical issues on implementing PODS methodologies in healthcare centers' analysis units.

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Topics

Submitted works should involve the analysis, management, or improvement of processes using recorded data in the healthcare domain. Non process-centric approaches will fall out of scope. The workshop aims at both more theoretical contributions such as new techniques and algorithms, and more applied contributions such as methodologies and case studies.

The topics of interest include, but are not limited to:
- *Process Mining in Healthcare*
- *Process Discovery and Data-aided Process in Healthcare*
- *Conformance Checking and Compliance Analysis of Healthcare Processes*
- *Data-aided Process Enhancement and Repair*
- *Healthcare Process Prediction and Recommendation*
- *Healthcare Process Simulation*
- *Healthcare Process Optimization*
- *Process-Aware Hospital Information Systems Analysis and Data Extraction*
- *Interfaces for PODS4H*
- *Disease-driven PODS4H*
- *Methodologies and Best Practices for PODS4H*
- *Case Studies and Application of PODS4H*
- *WACI (Wild And Crazy Ideas) for PODS4H*

Regular Paper

Success Case

Abstract submission (Regular):	18 May 2018
Paper submission (Regular):	25 May 2018
Notification of acceptance (Regular):	29 June 2018
Camera ready (Regular):	13 July 2018
Success Case submission:	9 July 2018
Success Case acceptance:	20 July 2018
Workshop day:	10 September 2018

Jorge Munoz-Gama Pontificia Universidad Catòlica de Chile
Carlos Fernandez-Llatas Universitat Politècnica de Valencia
Niels Martin Hasselt University
Owen Johnson University of Leeds

An initiative of the ***Process-Oriented Data Science for Healthcare Alliance***
pods4h.com/alliance

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Chuck Webster, EHR Workflow Inc.

Regular: Evaluated on the basis of significance, originality, technical quality, and potential to generate relevant discussion. Submissions must use the Springer LNCS/LNBIP format, be in English and must not exceed 12 pages (including figures, bibliography and appendices). Each paper should clarify the relation of the paper with the workshop main topics, clearly state the problem being addressed, the goal of the work, the results achieved, and the relation to other work.. Submissions must be original contributions that have not been published previously, nor already submitted to other conferences or journals in parallel with this workshop. Accepted papers will be published by Springer as a post-workshop proceedings volume in the series Lecture Notes in Business Information Processing (LNBIP). At least one author of each accepted paper must register and participate in the workshop. The best papers will be invited to submit an extended version on a *fast-track at a JCR journal* Special Issue.

Success Cases: Success cases are short accessible communications describing a PODS4H experience performed by a group or a company in a specific scenario, along with some analysis that provides insights and learning for the future (examples available in pods4h.com). Submissions must be in English and must not exceed 2 pages. The format is free (reference material available pods4h.com), but the document must include a highly visible 'International Workshop on Process-Oriented Data Science for Healthcare (PODS4H) – Success Case' reference. Papers should be submitted electronically as a self-contained PDF file via the submission system. Accepted cases will be published online by the IEEE Task Force on Process Mining as part of their Case Studies series.

Journal Special Issue

International Journal of **Environmental Research and Public Health**

The best Regular papers will be invited to submit an extended version on a fast-track at the Special Issue on process-oriented data science of the International Journal of Environmental Research and Public Health (IJERPH). IJERPH is indexed in the Journal Citation Reports – Thomson Reuters index, with a **5-Year Impact Factor of 2.54.** Notice that IJERPH is an open-access journal, and it is the authors responsibility to cover the Article Processing Charges if the paper is finally accepted.

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