Call for Papers

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Important Dates

Submission:	February 12, 2018
Notification:	March 5, 2018
Camera Ready:	March 15, 2018
Workshop:	June 2, 2018

In conjunction with ICSE 2018

1st International Workshop on Software Health (SoHeal 2018)

June 2, 2018, Gothenburg, Sweden in conjunction with ICSE 2018
https://soheal.github.io/ @iw_soheal

Factors impacting software health can vary depending on the viewpoint of the involved stakeholders: *process* factors, *technical* factors concerning the source code and related software artefacts, *social* factors concerning the communities of software contributors and users, and *business* factors concerning commercial aspects of the software product. Because of this variety, there is no clear definition of what constitutes software health, since it encompasses many different development and evolution attributes, including success, longevity, growth, resilience, survival, diversity, sustainability, etc.

As can be witnessed by recent initiatives such as the Linux Foundation's CHAOSS project on community health analytics, the research community and the industry have realized the need for a socio-technical perspective concerning software health. Such a perspective is challenging, due to the volatile storage of information regarding social relations, conflicts and interactions. There is a need to find better methods, techniques and tools to monitor software health, as well as to predict and take corrective measures when health implications arise. Finally, a project's health should also consider the health of the ecosystem in which the project participates to obtain a holistic view of software health. Thus, a better understanding is needed of how the health metrics, indicators and their operationalization can be aggregated from project-level to ecosystem level.

SoHeal aims to enable and promote collaboration between academia and industry, unifying the views on software health of researchers and practitioners. The workshop's goals are to: (1) raise awareness of practitioners' problems with software health; (2) familiarize practitioners with the progress made by academia; and (3) connect the two communities to further advance the body of knowledge and state of the practice on software health.

We invite two types of contributions: **full position papers** of 6 to 8 pages (including figures, tables and references), or **extended abstracts** of 1 to 2 pages reporting on practitioner's or industrial experience. Submissions must follow the ACM formatting instructions. Topics for contributions include but are not limited to:

- social, technical, process and business aspects of software health
- software health at the individual, team or community level
- software health at the software project or ecosystem level
- open source vs. industrial experiences with software health
- qualitative and/or quantitative studies about software health
- software health definition, modelling, measurement and assessment
- software health prediction, recommendation and improvement
- software health tools and dashboards (e.g. for analytics and visualization)

All accepted contributions will be presented during the workshop, but only full position papers will be included in the proceedings. The official publication date of the workshop proceedings is the date the proceedings are made available in the ACM Library. This date may be up to two weeks prior to the first day of ICSE 2018. The official publication date affects the deadline for any patent filings related to published work.

All submissions should provide unpublished and original work that has not been previously accepted for publication nor concurrently submitted for review in another workshop, conference, journal or book. If the submission is accepted, at least one author must attend the workshop and present the paper in order to include the paper in the proceedings.