

Theme : Software Engineering

- Sub Theme : Study on Improvement Methods of Development

Practices by Quantifying S/W Health (Pattern / Characteristic)

Technical debt is a symptom, not the core problem. It is a systemic problem, not a personal failing. Technical health is a better term than technical debt when describing the principle of keeping software “clean”. We need periodic health check ups and take actions (medicines, lifestyle changes, surgery, etc.) to avoid a life threatening illness. Technical health implies “being managed”. The same should be true for our programming projects¹.

We are aiming to find software development methodologies for growing technical health (reducing technical debt) of team/project to ensure productivity and software quality.

The topics we pursue through this GRO are as follows:

- Techniques for measuring and visualizing technical health (include debt) of current team/project.
- Techniques for analyzing the causes of technical debt.
- Development practices for reducing technical debt and growing technical health.

※ The topics are not limited to the above examples and the participants are encouraged to propose original idea.

※ Funding : Up to USD \$150,000 per year

¹ <http://www.agile2success.com/2017/12/18/technical-health-for-the-new-year/>