

Sehr geehrte Damen und Herren!

Am

05. Februar 2021, 10-16 Uhr

findet online im BBB-Raum BIS.SIM <https://conf.informatik.uni-leipzig.de/b/gra-fgy-6fw> die 17. Auflage unseres

Interdisziplinären Gesprächs

statt, mit der wir eine alte akademische Tradition aufnehmen und den fächerübergreifenden Austausch zu philosophischen und gesellschaftlichen Aspekten moderner „digitaler Technologien“ pflegen wollen. Als Schwerpunkt des aktuellen Gesprächs haben wir den Titel

Evolution of Technical and General Systems

gewählt. Bitte beachten Sie, dass das Gespräch mit Blick auf internationale Teilnehmer **in Englisch** stattfinden wird.

Announcement

The laws of development of technical systems are a central building block of the TRIZ methodology. In his book "Wings for Icarus" (1980), Altshuller leaves no doubt that the eight development laws formulated there in chapter 6 are *laws* (закон), and argues why they are significant for reasonable engineering action. Today, researchers are no longer so convinced of the significance of these findings and distinguish between *laws* (закон), *regularities* (закономерность), *trends* (тренд), *tendencies* (тенденция) and *development lines* (линия развития).

Is such a distinction due to a conceptual confusion resulting from the transfer of the concept of *law* from scientific methodology to the methodology of engineering action, or is it after all an essential modification of early theoretical approaches of Altshuller? M.S. Rubin (2018) emphasizes that "the fundamental difference between development *laws* and *trends*" – which he defines as "the main tendency of a change" – "is obvious and these terms should be clearly distinguished". V.M. Petrov (2020) would rather distinguish *laws* and *regularities*, A.L. Lyubomirsky and S.S. Litvin (2018) speak basically about *trends*, Koltze/Souchkov (2017) distinguish 5 *laws* and 10 *development lines*, in Souchkov's TRIZ Glossary v. 1.2 only *trends* are mentioned.

On the other hand, it is clear that it is wise not to wipe these *experiences of human action* off the table and to take them into account when planning own actions, even if these *laws* are not "proven" with the authority of scientific rigour. Especially since that rigour is itself under scrutiny at the latest with T.S. Kuhn's "Structure of Scientific Revolutions".

In our interdisciplinary discussion we want to get to the basics of this conceptual confusion and want better to understand,

1. which historical development lines of a modern knowledge society do meet here and
2. what symbiosis of experience, knowledge and plan-based action is developing on that ground.

As usual, we will prepare 2..4 keynotes, but give broad space to discussion among the participants in order to maintain the character of an interdisciplinary *discussion*.

Participation in our discussion is free of charge, but a **registration** with graebe@informatik.uni-leipzig.de is required.

More at

<http://mint-leipzig.de/2021-02-05.html>

The event is supported by

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