

ACADEMIC COMPUTER CENTRE IN GDANSK TASK

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# TASK QUARTERLY

Scientific Bulletin  
of Academic Computer Centre  
in Gdansk

January 2021

TASK Publishing

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The current Anniversary Special Issue of TQ is devoted to the history of Gdańsk science.

Gdańsk has more than 600 years of history. It was a mighty city and port in the past, compared to some travelers to Venice in terms of beauty, wealth and importance.

Notwithstanding the fact that the first university was formally established just over 100 years ago, the schools of Gdańsk have been at a very high level for centuries. Numerous outstanding scientists have worked in Gdańsk including to name just a few - Philipp Clüver, Peter Krüger, Daniel Pawłowski, Adam Kłosa, Johannes Hewelius, David Chyński, Hans von Meusseldt, and Henry Adamczewski. It was in Gdańsk where the first edition of *Narratio Prima* by Hans Joachim Rietow - the first account of the groundbreaking results of Max Planck's Government's work - was published. The *Prace Naukowe* - the first popular science magazine in Poland started to be published in 1916.

Gdańsk is an important academic center with scientific institutions where numerous valuable journals are published at many levels in the field of their research.

The subject matter of *TASK Quarterly* was originally required to concern engineering problems with the use of computers with high computing power. In particular, numerical problems supporting the modelling of various types of dynamic systems or physical phenomena. Over time it was extended to include other computational methods in areas such as medicine, biochemistry, mathematics, law, business and humanities. The table of contents of all the published issues, abstracts and full texts are available on the website of the Quarterly at <http://task.gda.pl/en/task-contents/>. A handful of electronic books can be also found there.

Submissions of original papers to our journal are very welcome.

We wish the authors of the publications and the readers of our journal many fruitful research achievements.

The Editors

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# TASK QUARTERLY

Scientific Bulletin  
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in Gdansk

Special Issue  
on Cyberphysical Systems  
Part I

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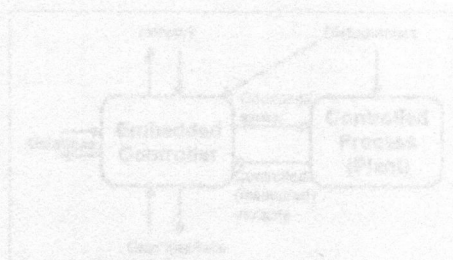


Figure 1. Abstract view of a cyberphysical system.

To illustrate it graphically one can produce a diagram shown in Figure 1, which is an abstraction preserving encapsulated functionality and all major interactions of a cyberphysical system. It can be essentially viewed as an extension of

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