Round Table Discussion

Akademie věd
České republiky

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Strategie AV21
Špičkový výzkum ve veřejném zájmu

Topic I: ENERGY IS MONEY

Governmental and private financing of research

Topic II: Face to Face Networking

Academic research and industrial needs

Topic III: Real Data – A Challenge for decision making

Informatics research targets and horizons required by industry

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Topic I. Main conclusions

1. A broader range of financial instruments is needed to support the applied research and development, e.g. for transfer of research results into innovative products or support long-term strategic research aims.

2. It is desirable to have research institutions of two types:
- for purely fundamental research („Max-Planck type")
- for applied research („Frauhofer type")
Each type of institutions should be evaluated according to specific criteria.

3. Institutional funding should provide sufficient long-term financing of research teams and should ensure their stability. Additional short-term funding (from private or governmental sources) should be motivated by the "usefulness" of research. But, replacing the problem of insufficient institutional funding by „short-term" grants leads to instability and increase the administrative burden.

Topic II. Main conclusions

1. Overcoming different time horizons of academics, industrial companies and consultancy agencies is necessary

2. Efficient collaboration requires translators/connectors

3. Suboptimal solutions may be preferred over optimal solutions in industrial problems

4. Solving industrial problems requires an open mind for alternative methods

5. Breakthroughs require courage to try out new methods

Topic III. Main conclusions

What information hidden in the data is crucial for energy production and distribution (EP&D) companies? What kind of information would you like „squeeze out" from the data?

1. Data quality / data cleaning
2. Information about customers behavior
3. Disclosing the unknown potential information in the data
4. Informations about market behavior

What are limitations of the current methodology? Are researchers able to satisfy EP&D requests? Can you set a good example? What are limitations of the current technology? Which challenges you see for „tomorrow"?

1. Needs of automatic data analysis
2. Price of technology for data collecting
3. Statistical methods needs a lot of assumptions, which are not fulfilled in practice
4. We must take data as is, we cannot influence the design of experiment