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# COMARCH



**Cracow University of Technology and Comarch co-operation**

Department of Computer Science  
Faculty of Physics, Mathematics and Computer Science  
Cracow University of Technology

## Technology portfolio

### Data Intensive Computing Lab at Cracow University of Technology (CUT DIC-Lab)

#### Our Mission:

- To conduct international quality research on exploring, development and study of data intensive scalable, reliable and intelligent complex systems and models, future generation technologies in artificial intelligence and biologically inspired data intensive computing, large-scale, parallel and distributed computing, Big Data related areas, cognitive sciences and allied disciplines.
- To support comprehensive evaluation, grassroots incubation, and seamless adoption of computational Intelligence technologies for educational, commercial, and research purposes.
- To collect together the expertise and resources needed to help students experience the excitement of research.
- To promote group visibility and dissemination of the research results of the group members and students in the relevant international forums.

#### Research Topics:

- Models of Data Intensive (DI) enabling infrastructures and middleware
- Parallel programming models for DI problems
- DI management and processing models in large scale distributed systems
- Algorithms and applications for Big Data and DI Computing
- Network architectures to support DI analytics
- Network and resource provisioning approaches
- Big Data and DI visualization techniques
- Big Data storage and management in the cloud, many-cloud and fog systems
- Security and trust in DI management
- Energy-awareness in Big Data management
- HPC- and DI-enabled modelling for Life Sciences
- HPC- and DI-enabled modelling for Socio-economical and Physical models

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## Scientist + Entrepreneur = Success

If you are planning to develop your company on the basis of the latest scientific findings and you would like to collaborate with experienced scientific experts check the offer of Cracow University of Technology for the industry

[www.s2b.transfer.edu.pl](http://www.s2b.transfer.edu.pl)

Our online database includes:

- technology offers, patents and industrial designs
- listing of University commercial services including laboratory expertise and research
- database of experts with experience in the implementation of services for the industry

As an internal unit of Cracow University of Technology, our team of consultants is specialized in the commercialization processes. On the other hand long term active cooperation with entrepreneurs allows us to identify precisely industry needs and expectations. Experiences gained through the last two decades on the edge of industry and science collaboration, let TTC formulate optimal models of commercialization and suitable methods of development projects support.



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