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Memorandum

of scientific and technological collaboration between the Department of Telecommunication which is the part of the Faculty of Telecommunications at the Training and Research Institute of Telecommunications and Information Technologies of the State University of Telecommunications (Kiev, Ukraine) and Chair for Technical Information Systems, Institute of Applied Computer Science, Faculty of Computer Science, Dresden University of Technology (Dresden, Germany)

Driven by the desire to make a significant contribution to the development of telecommunication technologies and implementation of the scientific departments achievements - the Department of Telecommunication of the State University of Telecommunications (GUT) and the Faculty of Computer Science of the Dresden University of Technology (TUD) come to the below decision:

1. Departments jointly conduct research and development of systems of automation of the production processes, industrial complexes and "smart house" solutions. At the same time the work is done at the following areas:
 - The Department of Telecommunication, GUT :
 - Optimized data transfer systems;
 - Multi-channel monitoring and control systems with code division multiplexing based on the modified pseudo-random Gold sequences (Ukraine patent number 64 776 on 25.11.11).
 - The Faculty of Computer Science, TUD:
 - Investigations on Factory Communication Systems;
 - Simulation of the Transportation System;
 - Component-based Design of Automation Systems;
 - Automatic Generation of Simulation Models;
 - Development of Building Automation Systems;
 - Process Analysis and Modeling of Production Systems.
2. During the cooperation process the departments jointly publish scientific articles and participate in international scientific conferences, discuss the results of researches, make the scientific reports and lectures with the mutual visits to the both universities.
3. The validity of the memorandum lasts for five years from the date of its signing.

The responsible for the memorandum implementation are defined by:

The Department of Telecommunication GUT: Ph.D., prof. Anatoly Semenko;

The Faculty of Computer Science, TUD: Ph.D. Alexander Dementyev.

The Chair for the Department of Telecommunications,
Candidate of Military Sciences, Associate Professor
of the State University of Telecommunications (SUT)

The Chair for Technical Information Systems,
Institute of Applied Computer Science,
Faculty of Computer Science
of the Dresden University of Technology (TUD)
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