

SINGLE LOW COST SYSTEM TO REPLACE MULTIPLE LABORATORY INSTRUMENTS – Project No A01



Center for
technology
transfer

The Market Opportunity

The majority of universities, laboratories and high schools do not have the budget to be able to afford multiple scientific measurement devices, nor do they have the means to allow students to practice on those machines they do own, or to afford simulation systems.

Researchers from the University of Belgrade have developed a single low cost precision instrument that can replace a variety of separate dedicated devices such as the: oscilloscope, galvanostat, potentiostat, L C and R meter, signal generator, square wave signal generator, FM signal generator, sine current and voltage generator, wobbler generator, diode and transistor characteristics measurements, and thermal analysis instruments such as DSC, DTA, TGA.

The system can also be used as a simulator for teaching students how to use scientific measurement instrumentation.

The Invention

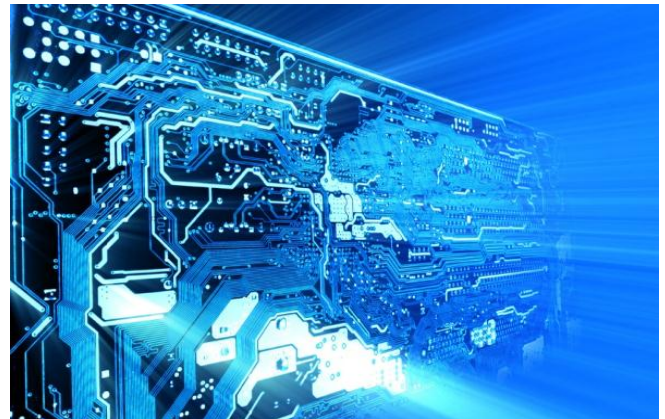
This system has been designed to be used with personal computer. The instrument consists of a source that can generate a variety of signals controlled by computer, and a record response of the system to these signals. It is configurable for different kinds of measurements and methods such as electrical, electronics, automatic control, physics, electrochemistry, and biomedicine measurements.

The advantages of this system are:

- It is cheap and has the capacity to replace several measuring devices;
- It is universal and multifunctional – it can be used for multiple measurements and methods;
- It is flexible and can be easily configured for specific methods for research purposes; and
- It is user friendly and easy to use.

Project Status

The system embodies a number types of IP that are protected by copyright and patents.



Research Group

This technology was invented by researchers at the University of Belgrade Innovation Center School of Electrical Engineering.

Commercial Status

We are looking for potential licensees and collaborators to develop and commercialise the invention.

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Project No.A01

About Center for Technology Transfer

Center for technology transfer was founded by the decision of the University Council with the purpose of identifying, protecting and commercializing the results of scientific, research and expert work and the protection of intellectual property of the University of Belgrade.