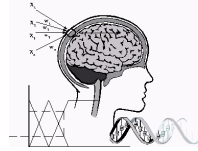




International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Identification 2.0 and modeling for Industry

Prof. N.N. Bakhtadze (V.A. Trapeznikov Institute of Control Sciences, Moscow, Russia)
Prof. O.A. Zaikin (Warsaw School of Computer Science, Warsaw, Poland)

Identification 2.0 is considered as a new paradigm of the conventional and commonly used system identification theory and applications, which is a totality of methods, techniques, procedures, algorithms intended eventually to implement an iterative human involved process with the following properties:

- Each stage of the process is intended to construct a mathematical model of the system under investigation in order to control the system by processing its input and output samples subject to technological, historical, methodological, environmental, heuristic knowledge associated with the system;

The objective of this iterative process is to build an adequate system model based on observations. A model is considered adequate if its incorporation in the control system ensures the control meeting all pre-specified requirements.

Topics: mathematical problems, parameter and non-parametric identification, structure identification and expert analysis, problems of selection and data analysis, control systems with an identifier, identification in intelligent systems, simulation procedures and software for identification and modeling, cognitive issues of identification, verification and problems of software quality for complex systems, global network resources of support processes of identification, modeling, and control.

Email & Contact Details:

Prof. N.N. Bakhtadze' e-mail: sung7@yandex.ru

Prof. O.A. Zaikin' e-mail: ozaikin@poczta.wysi.edu.pl , ozaikine@wi.zut.edu.pl