Ph.D., Associate professor K. Shestakov

I call your attention to the following three projects:

The First: **Development of theoretical decisions inverse tasks recognitions in building, testing the simulator systems and their component.**

Including:

- develop the theoretical bases of the shaping parameter simulator, as reduction not clearness tasks customer and determinations of the possibilities of the recognition trained;

- install the relationship between level parameter, their reachability and level of the expenses on creation simulator;

- test the designed positions and methodologies on concrete type of the simulator (KNR, RB).

The experience beside BSU: for several years has been conducted work on software development, electronic system of the removing given simulator with sensor of the machines – infantry armoured carriers BMP-2, battle tank T-72, airplane L-39. All development completed successfully. The Simulators are released in an amount in several groups of ten copies and are introduced.

It was published partly: Maine Cinsun. Modeling of the technical systems in simulator complex/ - Minsk: RIVSH, 2010. The Optimization of the processes of the development and accompaniments of the new farm machinery. It Is Melted Voyceh, Evgeniy Dumpling, Oleg Rolich, Sergey Kostyukevich, Konstantin Shestakov "Motrolu"- commission of motorization and energetics in agriculture Polish Academy of Sciences Branch in Lublin, 2012, vol.14, 5, p.75-78.;

Leaders of the functioning:

from BSU: Shestakov Konstantin Mihaylovich - an assistant professor, senior scientific employee, candidate of the technical sciences, from Harbin university of the science and technology Maine Cinsun professor, doctor of the technical sciences.

The Second: **Development for measuring systems of the methods of the recognition rival signal, close on correlation feature.**

Including:

- develop the methods of the estimation parameter signal;

- develop the algorithms of the estimation their mutual influence;

- show the way of increasing to accuracy of the determination parameter signal, as decisions of the problems of the recognition;

- test the designed methods on models of the simulator.

The Experience beside BSU: for ten years specialists of BSU have worked with leading enterprises in Belarus in the field of exact electronic machine building "KBTEM ", in particular within the framework of CAS (the Project 3), conducted in interest of CIOMP - Changchun Institute of Optics, Fine Mechanics and Physics with (since) participation Shanghai institute of optometrists and exact mechanical engineers (SIOM), Academy of Opto-Electronics (AOE) and Institute of optometrists and electronics. It was Emphasized importance of the decision described above problems for building of the installation of electronic machine building working (operating) within the range of nanometre of the permit.

It was published partly: Centrirovka lenses in (to;at) projection lens. K.M. Shestakov, V.YU. Moschenikov, A.V. SENIKO Electronics info 7 , 2013, p.p. 43-48.

Leaders of the functioning:

from BSU Shestakov Konstantin Mihaylovich - an assistant professor, senior scientific employee, candidate of the technical sciences, from Harbin university of science and technology Sc.D. prof. Maine Cinsun .

The Third: **Support decision making on optimization of the structure of the crop rotation for ensuring the decision of the technological problems agricultural production.**

Including:

- develop the methodology of support decision making for localized agricultural facilities ) with provision for their specialization;

- develop the structure technological database facilities and methods of her filling and following analysis;

- give accounting support of efficiency of the taken (received) decisions on crop rotation, shaping the ration etc.;

- develop suitable, demonstrative interfaces of the user, oriented on specialist of the agriculture (with (since) cartogram, satellite picture, editor worker zones(areas));

- develop the program of support decision making in technologies agricultural production and adapt her under one of the facilities in Belarus and China.

It was published partly:

Mathematical model and method of balancing federations for cattle in decision support systems.Wojciech Tanas, Evgenij Galushko, Andrey Senkov, Konstantin Shestakov, Mariusz Shimanek Journal of Research and Applications in Agricultural Engineering. Poznan 2014, Vol.59 (2), p.96-99. The Dumpling E.V., Senikov A.G., SHestakov K.M., Cooper N.F., Sahanchuk A.I. The Program of the balancing ration on base express-estimations energy provender for milk stada.// Certificate about registrations of the computer program 644 from 07.03.2014. The Mathematical model and algorithm of the balancing the dayly ration of the nursing KRS in decision support system. A.G. Senikov, E.V. The Dumpling, K.M. Shestakov, A.P.MIRILENKO, Sahanchuk A.I. The Electronics info. 9 (111), 2014, s.52-54.

Leaders of the functioning:

from BSU Shestakov Konstantin Mihaylovich - an assistant professor, senior scientific employee, candidate of the technical sciences, from Harbin university of the science and technology Maine Cinsun professor, doctor of the technical sciences.

The Postgraduate Maine Cinsun preparation since 01.02.2007 on 31.01.2010. The Thesis is successfully protected in 2010. Preparation was conducted on agreement on joint graduate school between BSU and Harbin university of the science and technology.

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The Areas of scientific interest - a Virtual worlds programming, simulators, geometric measurements, optometrist-electronic systems, decision making and artificial perception.