

CSCMP-2018

September 3-6, 2018

Samara,
Russian Federation



**COMPLEX SYSTEMS:
CONTROL AND MODELING
PROBLEMS**

XX International Conference

Session "Biokybernetik and Bioinformatik"

during XXth CSCMP 2018, 03-06 Sep 2018, Samara, Russia.

Session Aim:

Advance the discussion of structures of effectuation and controls for human-body system.

CALL FOR PAPERS in Russian or in English up to 6 pages (oral presentation in English, only)

Topics can be:

Mathematics of Systems Modeling:

- Control of dynamic systems, as deterministic theory of control;
- Stochastic analysis, for stochastification of deterministic models;
- Game theory, as an example of potential extension.

Applied Systems Modeling:

- Modeling of partial systems of human body;
- Biomedical engineering for technology of measurement;
- Exploiting analogies with engineered systems.

Empirical Systems Modeling:

- Identification of structures, structural analysis;
- Parameter identification, statistical inference in context of complex dynamic systems;
- Biometrical planning of empirical studies that test model-driven hypotheses.

Submit your paper according to the rulings on the Conference Website

http://www.iccs.ru/cscmp/cscmp_e.html

until 25 March 2018. Please also send a **one-page abstract** to **j.mau@hhu.de** as for the

Session Organizer:

Professor Jochen Mau, Heinrich Heine University, Medical School, Düsseldorf, Germany,
Founder and Promoter of German "Initiative Biokybernetik" since 2014,

Convenor (with Dr. J. W. Dietrich, Ruhr-University Bochum, Prof. Dr. D. M. Hermann, University of Duisburg-Essen, Prof. G. Palm, University Ulm, Prof. Dr. Z.Y. Wu, Zhejiang University Hangzhou) of Biokybernetik Workshop **GeneSEES - Genetics, Systems Medicine, Environmental Exposures, Economic & Social Settings - 2015** "Loss of Control as a Slow Health Hazard", 07 September 2015, University of Applied Sciences Hochschule Niederrhein, Krefeld, Germany.

Convenor (with Prof. Sergey I. Mukhin, MGU) of

BIOKYBERNETIKA 2016 - 1st Russo-German Conference "*MultiScale BioMathematics - Coherent Modeling of Human Body System*" and 1st Russo-German "Young Talent" Workshop on "*Mathematical Bio-systems Modeling*", 07-09 November 2016, Lomonosov Moscow State University, Russia.

BIOKYBERNETIKA 2017 - 4th Annual "Arbeitstreffen" of German Initiative Biokybernetik on "*Patho-Biokybernetik - Disorders of MultiScale Control in Complex Diseases*" and 2nd Russo-German Conference on "*MultiScale BioMathematics - Coherent Modeling of Human Body System*", 11-12 December 2017, TRYP Düsseldorf Krefeld, Krefeld-Fichtenhain, Germany.