

**«COMPATIBLE» FUZZY COGNITIVE MODELS:  
DIRECT AND INVERSE TASKS**

**Vadim V. Borisov**

Professor at Computer Engineering department,  
the Branch of National Research University  
“Moscow Power Engineering Institute” in Smolensk  
*Russia, 214013, Smolensk, 1 Energeticheskiy proezd, SFMEI.*  
*E-mail: vbor67@mail.ru*

**Alexander S. Fedulov**

Director, Head of Computer Engineering department,  
the Branch of National Research University  
“Moscow Power Engineering Institute” in Smolensk  
*Russia, 214013, Smolensk, 1 Energeticheskiy proezd, SFMEI.*  
*E-mail: fedulov\_a@mail.ru*

**Yaroslav S. Fedulov**

Senior Lecturer at Computer Engineering department,  
the Branch of National Research University  
“Moscow Power Engineering Institute” in Smolensk  
*Russia, 214013, Smolensk, 1 Energeticheskiy proezd, SFMEI.*  
*E-mail: fedulov\_yar@mail.ru*

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The questions of compatibility of system factors (concepts) for various types of fuzzy cognitive maps at the analysis of problem situations are considered. The offered type of «compatible» fuzzy cognitive models is described. These models take into account the various degree of compatibility of concepts at a choice of operations for an estimation of the direct and mediated action of concepts on each other. Methods of the solution of direct and inverse tasks of cognitive simulation for «compatible» fuzzy cognitive models are offered.

**Keywords:** fuzzy cognitive model (map), fuzzy cognitive analysis and simulation.

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