

Ústav informatiky Akademie věd České republiky

Pod Vodárenskou věží 2, 182 07 Praha 8

ÚI AV ČR ve spolupráci s Odbornou skupinou pro logiku, pravděpodobnost a usuzování
České společnosti pro kybernetiku a informatiku

pořádá

v seminární místnosti ÚI AV ČR - místnost č. 318
(stanice metra C Ládví)

Seminář aplikované matematické logiky

který se schází **ve středu v 10.00 hod.**

Program na červen 2018:

6. 6. 2018 *Igor Sedlár, Vít, Punčochář*
Informational semantics for superintuitionistic modal logics

We will present a novel semantics for superintuitionistic modal logics. A peculiar feature of this semantics is that not only diamond but also box is captured as an existential modality. This corresponds to the observation that various box-like modalities (knowledge, belief, provability, obligation etc.) have also existential reading (there is a justification, there is a reason, there is a proof, there is a norm etc.).

We will show some basic features and merits of the semantics. In particular, we will show how various standard modal logics can be obtained in it and how it can serve as a suitable general basis for non-classical modal logics.

POZOR, ZMĚNA!

8. 6. 2018 14:00 *Diego Castaño*
Algebraization of the one-variable fragment of first-order basic logic

We will describe a possible algebraization of the one-variable fragment of first-order basic logic based on axioms proposed by Hájek himself. We will define monadic BL-algebras and show their relationship to the natural models of the logic. In addition we will explore several subvarieties of this variety and their properties.

26. 6. 2018 14:00 *Miguel Campercholi*
A computational study of Open-Definability

Let A be a structure. A set T of n -tuples from A is open-definable provided there is a quantifier-free first-order formula $F(x_1, \dots, x_n)$ such that F holds exactly for the tuples in T . In our talk we shall discuss computational aspects of deciding open-definability.