

**22**  
**сентября**  
вторник



**Коллоквиум  
факультета  
компьютерных наук  
НИУ ВШЭ**

<http://cs.hse.ru/colloquium/>

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**Extinction probabilities  
of branching processes  
with infinitely many  
types**

We present some iterative methods for computing the global and partial extinction probability vectors for branching processes with countably infinitely many types. The probabilistic interpretation of these methods involves truncated branching processes with finite sets of types and modified progeny generating functions. Simple probabilistic arguments and coupling methods are used to prove the convergence of the algorithms. In addition, we discuss extinction criteria for global and partial extinction.

**Внимание: нестандартное время  
и место!**

**22 сентября, 16:40-18:00**

**Кочновский проезд, 3**

**Лекционный зал Евклид, 6 этаж**

**Заказать пропуск на проход**

**в здание: [computerscience@hse.ru](mailto:computerscience@hse.ru)**

