

## PUBLIC LECTURE EVALUATION

### Masaryk University

#### Faculty

#### Procedure field

#### Applicant

#### Lecture date

#### Lecture topic

#### Persons present

(number)

#### Designated evaluators

(board members)

Faculty of Informatics

Informatics

RNDr. Tomáš Masopust, Ph.D., DSc.

26. 3. 2021

*Expressivity and complexity of partially ordered automata*

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prof. RNDr. Jiří Barnat, Ph.D.

prof. Ing. Jan Holub, Ph.D.

doc. Mgr. Michal Kunc, Ph.D.

doc. Mgr. Adam Rogalewicz, Ph.D.

Prof. Marc Zeitoun

The applicant has presented a lecture related to his research topic. Within the lecture he discussed the expressivity of finite automata of which the transition diagrams do not contain nontrivial cycles. The applicant has shown the relationship of these automata to the Straubing-Therien concatenation hierarchy, and discussed the complexity of some of the related problems, universality checking, in particular.

The lecture was given in English with an appropriate pace of speech and language level. The presentation skills of the applicant seem to be well developed. Nevertheless, the lecture given was a way more technical than expected from a lecture aimed at a general unaware audience. The slides that were used to support the lecture were readable, well-structured, and easy to follow for scientists in the field.

At the end of the lecture the applicant answered a couple of questions raised from the audience. Due to the epidemic situation the lecture was given online via unrestricted publicly announced zoom meeting.

### Conclusion

The lecture delivered by Tomáš Masopust, entitled "*Expressivity and complexity of partially ordered automata*" and delivered as part of the habilitation procedure, **demonstrated – failed to demonstrate** sufficient scholarly qualifications and pedagogical capabilities expected of applicants participating in a habilitation procedure in the field of Informatics.

Date: 26 March 2021

Jiří Barnat  
(on behalf of)

