

Current Research in Algorithms and Complexity

Module title:

Current Research in Algorithms and Complexity
No information

Credits:

3

Responsible person:

Niedermeier, Rolf

Office:

TEL 5-1

Contact person:

Thielcke, Christlinda

Website:

<http://www.akt.tu-berlin.de/menue/teaching>

Display language:

Englisch

E-mail address:

rolf.niedermeier@tu-berlin.de

Learning Outcomes

On successful completion, students will be able to:

- critically read and evaluate scientific papers
- work independently to gain an understanding of recently published results and the methods and proofs behind
- communicate the central ideas to non-experts and discuss the value of the presented findings
- present a current algorithmic topic in oral and written form to a group of non-experts

Content

The seminar uses recent publications in scientific conferences and journals, focussing on algorithms and complexity. The current topic will be announced on the website of the research group algorithmics and complexity theory (<http://www.akt.tu-berlin.de/menue/teaching/>).

Module Components

Course Name	Type	Number	Cycle	SWS
Current Research in Algorithms and Complexity	SEM			2

Workload and Credit Points

Current Research in Algorithms and Complexity (Seminar)	Multiplier	Hours	Total
Präsenzzeit	15.0	2.0h	30.0h
Vor-/Nachbereitung	15.0	4.0h	60.0h
			90.0h

The Workload of the module sums up to 90.0 Hours. Therefore the module contains 3 Credits.

Description of Teaching and Learning Methods

Classic seminar with talks by the participants and accompanying handouts (2-4 pages), where central ideas and methods presented in the talk are summarized. We follow typical conference talk style.

Requirements for participation and examination

Desirable prerequisites for participation in the courses:

Further knowledge on algorithms and complexity

Mandatory requirements for the module test application:

No information

Module completion

Grading:

graded

Type of exam:

Portfolio examination

Language:

English

Grading scale:

This exam uses its own grading scale (see test description)..

Test description:

According to §47 (2) AllgStuPO the grade will be calculated applying grading key 1 of Fakultät IV, it may however be altered in favour of the students.

Test elements	Categorie		Duration/Extent
(Ergebnisprüfung) handout	written	30	5-10 pp
(Ergebnisprüfung) talk	oral	70	45 min

Duration of the Module

This module can be completed in one semester.

Maximum Number of Participants

The maximum capacity of students is 12

Registration Procedures

<http://www.akt.tu-berlin.de/menue/teaching/>

Recommended reading, Lecture notes

Lecture notes:

unavailable

Electronical lecture notes :

unavailable

Assigned Degree Programs

This module is used in the following modulelists:

Computer Engineering (Master of Science)

StuPO 2015

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018

Computer Science (Informatik) (Master of Science)

StuPO 2015

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018

Elektrotechnik (Master of Science)

StuPO 2015

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018

Informatik (Master of Science)

MSc Informatik PO 2013

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018

Technische Informatik (Master of Science)

StuPO 2013

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018

Wirtschaftsinformatik / Information Systems Management (Master of Science)

StuPO 2013

Modullisten der Semester: SS 2017 WS 2017/18 SS 2018

StuPO 2017

Modullisten der Semester: WS 2017/18 SS 2018

Wirtschaftsingenieurwesen (Master of Science)

StuPO 2015

Modullisten der Semester: WS 2017/18 SS 2018 WS 2018/19

Miscellaneous

This course is not offered regularly, you will find detailed information on our website: <http://www.akt.tu-berlin.de/menue/teaching/>