

## Module Description

# State-of-the-Art Reports

### General Information

#### Module Code

HABG\_STAR

#### Module Category

Specialization

#### Lessons

Input, self-study

One coaching session on writing

Two topic-wise coaching sessions with supervisor

#### Number of ECTS Credits

3

#### Module Language

Materials in English

Projects (incl. report and written text section for coaching) can be completed in German or English

#### Module Description

The goal of the STAR (State-of-the-Art Report) module is the conceptualization and realisation of a literature review that can be considered state-of-the-art in two ways: On the one hand, the students conduct a comprehensive literature review on a selected topic – and summarise the state-of-the-art in that area. On the other hand, the students demonstrate their ability to cite, employ, and discuss the researched literature in the report according to the scientific and methodological state-of-the-art.

The elective topics for the literature review are outlined by the supervisors, together with pointers to some relevant literature to start with. The literature review project offers the students the opportunity to familiarize themselves with a less known or novel technology, method, or research area. The focus of the module is on finding, evaluating, and summarising relevant literature with respect to the selected topic. The module comprises a scientific literature research and conclusions thereof, i.e., identification of gaps in the knowledge. No experiments, implementations or practical course work are to be completed.

### Learning Objectives, Contents, Methods

#### Learning Objectives and Acquired Competences

Professional Goals:

- The students compare, analyse, and discuss a less known or novel technology or method from their respective study area by completing a comprehensive literature research and writing a literature review.
- The students report, evaluate, and discuss different application cases of the technology or method based on reviewed literature.
- The students interpret relevant literature resources regarding the selected topic and discuss their content critically.

Methodical Goals:

- The student's structure, summarise and discuss the results of the literature review appropriately and critically to give an overview as well as details on and applications of the selected topic.

#### Contents of the Module

- Introduction to and guidance on detailing and focusing the selected topic in discussion with the supervisor
- Input and self-study (introduction/refresher) of materials on doing literature research and writing a literature review
- Coaching on scientific writing based on literature
- Individual work on the selected topic (literature research, analysis, structuring and writing a scientific publication / a literature review)
- Presentation of the work in writing according to given guidelines

### Teaching and Learning Methods

Input, self-study, project work, and coaching

### Assessment

#### Assessment and Testat Requirements

The following products are to be submitted at the end of the module (see submission deadlines below). They will be assessed according to the assessment criteria.

- Written literature review on the selected topic  
Conditions: apply given layout, max. 10 pages, individual work, submit original files (e.g., .doc and .png files) and PDF  
GEO: ISPRS layout, details on <https://www.isprs.org/documents/orangebook/app5.aspx>  
BT: IEEE layout, details on <https://www.ieee.org/conferences/publishing/templates.html>  
Grading of literature review: see assessment template
- Annotated literature references (standard export from literature management software, e.g., Zotero)

#### Testat Requirements

- Submission of a short, written paragraph and one slide for presenting the written paragraph (to be discussed in the coaching session on writing by the date given, typically in semester week 7)
- Attendance at the coaching session on writing at the date given (typically on Tuesday morning in semester week 8)

#### Final module exam

No final module exam.

The module is assessed according to the assessment and testat requirements as detailed above.

#### Submission deadlines

Spring semester (project start on Monday in calendar week 8) submission on Friday in calendar week 23

Autumn semester (project start on Monday in calendar week 38) – submission on Friday in calendar week 51

Submission on Moodle (all documents as .zip file) and report pdf per e-mail to supervisor and [susanne.bleisch@fhnw.ch](mailto:susanne.bleisch@fhnw.ch)

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