

The Rector of the Hasselt University declares that

Krassimira Ivanova

born in Troyan (Bulgaria), on August 16, 1965

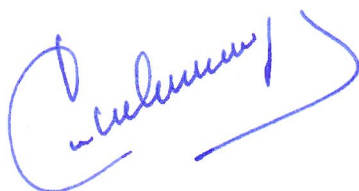
has received the academic degree of

Doctor of science

within the field of study in science

This degree is issued in accordance with the decree of the 4th of April 2003 regarding the Flemish higher education structure. In accordance with article 25 the holder of this degree is granted the title of '**doctor**'.

Issued in Diepenbeek, November 15, 2011



Prof. dr. L. De Schepper
Rector

DIPLOMA SUPPLEMENT

This Diploma Supplement follows the model developed by the European Commission, Council of Europe and UNESCO/CEPES. The Diploma Supplement provides independent data in order to improve the international transparency and fair academic and professional recognition of qualifications. It describes the nature, level, context, content and status of the studies that were pursued and successfully completed by the individual named on the original qualification to which this supplement is appended. It is free from any value judgments, equivalence statements or suggestions about recognition.

1. Information identifying the holder of the qualification

- 1.1 family name: **Ivanova**
- 1.2 given name: **Krassimira**
- 1.3 date and place of birth: **August 16, 1965 in Troyan (Bulgaria)**
- 1.4 student identification number: **0929246**

2. Information identifying the qualification

- 2.1 name of qualification: **Doctor of science**
- 2.2 field of study: **Sciences**
- 2.3 name of the Association, to which the higher education institution belongs:
Associatie Universiteit-Hogescholen Limburg
- 2.4 name of the higher education institution: **Hasselt University**
- 2.5 language of instruction: not applicable

3. Information on the level of the qualification

- 3.1 orientation of qualification: **academic education**
- 3.2 official length of the programme in ECTS credit points: not applicable
- 3.3 admission requirements:
Diploma: master mathematics

4. Information on the contents and results gained

- 4.1 mode of study: not applicable
- 4.2 programme requirements: not applicable
- 4.3 programme details:
A doctoral dissertation with the title

A novel method for content-based retrieval in art image collections utilizing color semantics

was defended in the presence of a panel of examiners.

4.4 grading scheme: not applicable

4.5 degree of distinction awarded: not applicable

5. Information on the function of the qualification

5.1 access to further study: not applicable

5.2 title which may be used in accordance to article 25 of the structure decree: **"doctor"**

6. Additional information

6.1 additional information: not applicable

6.2 further information sources:

6.2.1. website of Higher Education in Flanders, as referred to in article 64 of the structure decree:

<http://www.highereducation.be>

6.2.2. contact address and website of the higher education institution

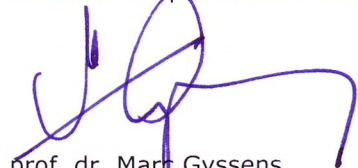
Universiteit Hasselt
Campus Diepenbeek
Agoralaan - Gebouw D
BE 3590 - Diepenbeek
www.uhasselt.be

6.2.3. contact address and website of NARIC-Vlaanderen, the Flemish information centre of the National Academic Recognition and Information Centre Network of the European Economic Area established in 1984 by the European Commission of the European Union:

NARIC-Vlaanderen
Hendrik Consciencegebouw
Koning Albert II-laan 15
BE-1210 Brussel
Tel: +32 2 553 89 58
e-mail: naric@vlaanderen.be
website: www.ond.vlaanderen.be/NARIC

7. Certification of the supplement

Issued at Diepenbeek on November 15, 2011



prof. dr. Marc Gyssens
Chairman of the panel of examiners

8. Information on the national higher education system

8.1 Description of the Flemish higher education system

8.1.1. Higher education institutions in Flanders

In Flanders the higher education institutions consist of statutory registered institutions and registered higher education institutions.

- The statutory registered institutions are the higher education institutions which were state recognised by the Flemish education authority before 2004. These institutions are listed in the Flemish Register of Higher Education (cf. 6.2.1.). An Association is an official legal entity confirming the cooperation of a university and one or more university colleges.
- The registered higher education institutions are institutions which offer higher education in Flanders and which are officially registered by the Flemish Government. Their accredited Bachelor and Master programmes are listed in the Flemish Register of Higher Education.

8.1.2. Degrees

1. Bachelor

After successfully completing a programme of at least 180 ECTS credits students obtain a Bachelor's degree. The study load of advanced Bachelor degree programmes, which are only open for holders of a Bachelor's degree, is at least 60 ECTS credits.

Professional Bachelor's programmes aim for the students to obtain a level of (general and specific) knowledge and competences required for the autonomous practice of a specific profession. These degrees are only awarded by university colleges.

Academic Bachelor's programmes are based on scientific research and mainly prepare students for further studies at Master level. These degrees are awarded by universities and some university colleges in the framework of an association.

2. Master

After successfully completing a programme of at least 60 ECTS credits students obtain a Master's degree. Master programmes are characterised by the interaction of education and research and aim to bring the students to an advanced level of knowledge and competences. A Master's dissertation or project finalizes the Master programme.

3. Doctor (Ph D)

The degree of "Doctor" (Ph D) is awarded after the public presentation of a doctoral thesis which confirms the author's capability to create new scientific knowledge based on independent and autonomous scientific research. Only universities may award the degree of "Doctor" (Ph D).

8.1.3. Access requirements

1. Bachelor programmes

The general access requirement for a Bachelor programme is the the secondary school leaving certificate. The institution boards may admit persons who do not meet the general access requirements taking the legal stipulations into account.

Students must also pass a specific entry examination to get access to some specific Bachelor programmes.

Advanced Bachelor programmes are only open to holders of a Bachelor's degree possibly after an aptitude test.

2. Master programmes

The general access requirement for a Master programme is an academic Bachelor's degree. In some cases students will have to follow an extra preparatory programme.

Professional Bachelor degrees may give access to some Master programmes after a bridging programme.

Advanced Master programmes are only open to holders of a Master's degree possibly after an aptitude test.

3. Doctor

The general access requirement is a Master's degree. The university board may impose an aptitude test. Exceptionally a university board may admit persons who do not meet the general access requirements taking the legal stipulations into account.

8.1.4. The Flemish credit system

The Flemish credit system is fully based on the European Credit Transfer and Accumulation System (ECTS). A standard program of one academic year equals approximately 60 credits. Each program component counts for at least three credits. One credit represents 25 to 30 hours of a student's workload.

8.1.5. Flexible learning paths

Students can opt for the standard learning path or for an individual combination of program components. The student receives a degree after obtaining all the program's required credits or when he/she is found to have sufficiently reached the requirements of the program.

8.1.6. Quality assurance and accreditation

Accreditation is the formal recognition of a programme based on a decision of the independent quality assurance agency (the *Nederlands-Vlaamse Accreditatieorganisatie* NVAO), which verifies whether the programme meets the predetermined minimal quality and level requirements.

The accreditation investigation is based on the internal quality assurance system under the autonomy of the higher education institutions and on the results of the external quality control of the programmes.

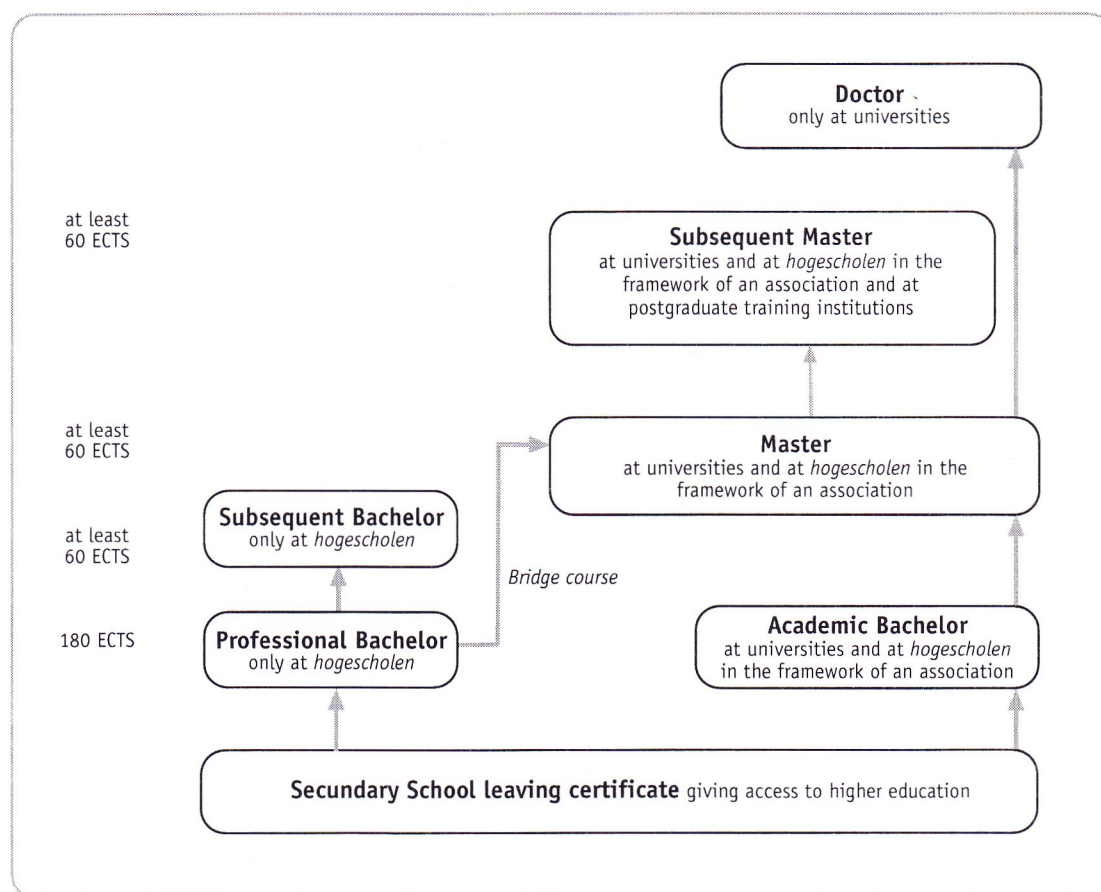
The accreditation quality mark guarantees that the graduate has acquired general and specific competences associated with an internationally recognised Bachelor's and/or Master's degree.

The Flemish Register of Higher Education contains detailed information on all accredited Bachelor and Master programmes offered in Flanders.

8.1.7. Transitory measures

According to the articles 128, 129 and 130 of the decree on the restructuring of the higher education dated 4th of April 2003 the higher education institutions may equate other degrees than the Bachelor's and Master's degrees in order to give access. It appears from the completion of specific sections of this diploma supplement whether an institution considers a degree of the old structure to be sufficiently similar.

8.2. Diagram of Flemish education system



8.3 Compatibility of the Flemish higher education system with the overarching Framework for Qualifications of the European Higher Education Area:

The self certification within the framework of the Bologna Process was round off with the conclusion of independent international experts showing that the National Framework of Qualifications in Higher Education in Flanders is compatible with the overarching Framework for Qualifications of the European Higher Education Area (QF-EHEA). This is formally confirmed by the Accreditation Organisation of the Netherlands and Flanders (NVAO): <http://nvaio.net/ngf-fl>.