Master of Science
Program Intelligent Adaptive Systems (IAS)

<table>
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<th>Application period:</th>
<th>15 February – 31 March</th>
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<td>Semester start:</td>
<td>1 October – Winter Semester</td>
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<td>Course language:</td>
<td>English</td>
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Please find all information regarding the application and a detailed list of all required documents here: www.master-intelligent-adaptive-systems.com

Contact: ias-team@informatik.uni-hamburg.de

Introduction

The Master in Intelligent Adaptive Systems (IAS) is a 2-year research-oriented program taught entirely in English. The goal is to prepare selected students for international research or a career in the private sector. Intelligent systems and robots become a central part of our daily life in the near future. In order to be accepted by us and to interact with people efficiently and naturally, they have to adapt to changing environments and to the users with whom they interact. Intelligent systems are expected not only to acquire and manage knowledge automatically through a variety of sensors but also to expand and optimize their behavior over time. This International Master's program aims to provide students with the ability to create these intelligent adaptive systems and to prepare them for a future market, where intelligent behavior is considered the standard for computer systems. The program includes the core modules Bioinspired Artificial Intelligence, Neural Networks, Machine Learning, and Intelligent Robotics as well as Electives like Knowledge Processing, Natural Language Processing, User Interface Design, Computer Vision and Robot Technology. IAS is a highly selective program that receives hundreds of applications from more than 50 countries every year. Students, both national and international, can profit from an international environment by improving their grasp of the English language and engaging in cultural exchange. This exchange is fostered in seminars and workgroups, where teamwork is promoted, and extended in extracurricular discussions and activities. Through the proximity to current research projects, students have the possibility of a smooth transition into collaborative research environments and continuing education and study. Further information: www.master-intelligent-adaptive-systems.com
How to apply

The following formal requirements have to be fulfilled in order to apply for the Master’s program:

(1) A Bachelor's degree with the following requirements:

   (1a) A Bachelor's degree with at least 60 ECTS in core computer science courses from the Faculty of Informatics, Mathematics, Natural Science, Universität Hamburg, Germany in
   ○ Informatik (Computer Science)
   ○ Wirtschaftsinformatik (Business Informatics)
   ○ Software-System-Entwicklung (Software-System Development)
   ○ Computing in Science
   ○ Mensch-Computer-Interaktion (Human-Computer Interaction)

   OR

   (1b) A Bachelor's Degree in a related field from the Universität Hamburg or another University
   ○ insofar as 60 ECTS were acquired in the field of computer science, which are comparable to the curriculum of the BSc "Informatik" (Computer Science) at the Universität Hamburg, Germany.

The admission board will establish the comparability of the degree.

(2) English Language Proficiency
Proof of English language proficiency by (or comparable with):
   ○ CEFR/TELC: B2
   ○ IELTS: 6.5
   ○ TOEFL: (IBT 90, PBT 575, CBT 230)
   ○ Cambridge: CAE or CPE

The admission board will establish the comparability of the evidence.

The legal basis for this regulation can be found in the admission regulations of the course of studies: www.uni-hamburg.de/zugang-master
Required documents for application

Application in two steps:

Step 1. General STiNE online application form

Fill out and submit the general application form electronically on the application portal of the Universität Hamburg, STiNE. Please create an application account, enter your personal data online, submit the online application electronically, print and sign this form. With this procedure, you have obtained a general BW – number (application number). Please state this number on your paper application.

You need to include the printed and signed STiNE online form in your printed application (Step 2) along with the following required documents:

Only during the application period 15 February - 31 March, it is possible to fill out the STiNE online application via the general application portal of the Universität Hamburg: www.uni-hamburg.de/online-application.

Step 2. Paper application to the Department of Informatics, Universität Hamburg Germany.

Please send all documents as uncertified paper copies. A verification of accordance with the original documents will be performed after conditional admission. For all documents that are written in languages other than German or English, certified English or German translations have to be provided.

Required documents for a complete paper application:

- **STiNE: printed general application form (Step 1)**

- **University documents**: Bsc certificate, the transcript of records, a diploma supplement (description of completed degree), your degree’s grading scale in numbers, and your final grade in numbers. Additionally, add a self-made table of only your core computer science courses evidencing at least 60 ECTS; see website for more detailed explanations.

  If you have not finished your Bachelor’s degree at the time of application, please send all the documents mentioned above issued by your university. The transcript and the degree certificate may be preliminary documents. Do not forget your preliminary average grade. Following current regulations, a total of at least 150 of 180 ECTS credit points (or equivalent) has to be evidenced. The degree must be completed by the end of the first semester.

- **Proof of sufficient English language skills** (see formal requirements above).
• **Curriculum Vitae (CV)** in tabular form, including all acquired certificates you may have obtained after completing your school education. Additionally, the filled-in cover-letter-form as first page of your application, see [www.master-intelligent-adaptive-systems.com](http://www.master-intelligent-adaptive-systems.com).

• An independently prepared **letter of motivation**, in which you can explain your choice of study, the choice of university, and your present study objectives in regard to your academic and professional aims. The letter of motivation should not exceed 1.5 pages and has to be written entirely in English.

• **Recognition of certificates for degrees obtained not in Germany**: If you have acquired a degree not in Germany, your certificate will be checked during the application procedure at the Faculty of Mathematics, Informatics, and Natural Sciences at the Universität Hamburg. Please enclose a print out of the Anabin database of your University, see [www.master-intelligent-adaptive-systems.com](http://www.master-intelligent-adaptive-systems.com)

  If your degree certificate was not issued in German or English, please enclose a translation of an officially sworn translator of your degree in German or English with your application documents. Only complete paper applications take part in the selection process.

**Address for applications**

Dr. Annika Peters  
Universität Hamburg  
Department of Informatics / WTM / F-214  
Vogt-Kölln-Strasse 30  
22527 Hamburg, Germany

There is no mailbox accessible to the public. For a personal submission of the application documents, an appointment is necessary (see contact details).

The application will only be considered complete once all required documents in paper copies have been received at the address above. The date of the receipt applies, not the date stamp/ postmark! Applications with documents arriving after the official application deadline (31 March) will not enter the selection process. The Universität Hamburg does not send acknowledgments of received documents.

Please do not use paper clips, folders, staplers, etc.. Put the documents in this order and make sure that they are not attached: Cover-Letter-Form, Signed Online Form STiNE, CV, Motivation Letter, Language Test Score, Transcript, Self-made table, Bachelor Certificate, Grade, Grading Scale, Anabin print out, everything else (please visit: [www.master-intelligent-adaptive-systems.com](http://www.master-intelligent-adaptive-systems.com))
**Special application**

If a special application (e.g. hardship application) applies to you, the special application has to be submitted separately. This application must include the necessary evidence and must be submitted separately and additionally from the application mentioned above. Send these documents directly to the general Team of Application and Admissions of the Universität Hamburg within the application deadline. Further information on special applications can be found at: [www.uni-hamburg.de/sonderantrag](http://www.uni-hamburg.de/sonderantrag) and [www.uni-hamburg.de/info-master](http://www.uni-hamburg.de/info-master).

**Selection Criteria**

If the number of applicants exceeds the number of available places on the master's program, a selection is required. The selection is made according to these criteria:

- **a)** The quality and content of the letter of motivation, in particular with regard to the interest in further professional training, with the possibility of a telephone interview to clarify any open questions of the selection committee

- **b)** The grade of the bachelor's degree and its comparability with the consecutive bachelor's degree course in Computer Science of the Faculty of Mathematics, Informatics and Natural Sciences at the Universität Hamburg

- **c)** Professional experience and international experience relevant to the master's course

Criteria a) to c) will be assessed according to the grading scale (1-5). Criterion a) is weighted with 40%, criteria b) and c) with 30% each.

The selection decision is made by a selection committee consisting of three lecturers of the master's degree program Intelligent Adaptive Systems, two of which have examiner qualifications. The legal basis for this regulation can be found in the selection statutes of the course of studies at [www.uni-hamburg.de/auswahl-master](http://www.uni-hamburg.de/auswahl-master).

**Admission and enrolment**

After the examination of your application, you will receive a letter of admission or rejection in your STiNE account under the menu item "Documents" (Mid of May). Please see the information at [www.uni-hamburg.de/online-application](http://www.uni-hamburg.de/online-application). The letter of admission will tell you the deadline by which you must register and send the documents required for enrolment to the general team of application and admission of the Universität Hamburg, usually within two weeks via postal mail. Detailed information about the enrollment process is provided at [www.uni-hamburg.de/masterenrollment](http://www.uni-hamburg.de/masterenrollment).
Contact

Your IAS contact person for questions regarding the application and selection process can be reached only via ias-team@informatik.uni-hamburg.de. Please check www.master-intelligent-adaptive-systems.com for detailed and full list of the required documents (around 11 documents) and formal requirements and how to provide evidence.

Last updated: February 2020