

Asst./Assoc. Professor in Multimedia Search/Recommender Systems

Faculty/department Electrical Engineering, Mathematics and Computer Science

Level PhD degree

Maximum employment Maximum of 38 hours per week (1 FTE)

Duration of contract Tenure track

Salary scale €3400 to €6299 per month gross

Electrical Engineering, Mathematics and Computer Science

The Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS) is known worldwide for its high academic quality and the social relevance of its research programmes. The faculty's excellent facilities accentuate its international position in teaching and research. Within this interdisciplinary and international setting the faculty employs more than 1100 employees, including about 400 graduate students and about 2100 students. Together they work on a broad range of technical innovations in the fields of sustainable energy, telecommunications, microelectronics, embedded systems, computer and software engineering, interactive multimedia and applied mathematics. EEMCS: Your Connection to the Future.

The mission of the Department of Intelligent Systems as a part of the Faculty of EEMCS is to enable humans and machines to deal with the increasing volume and complexity of data. This mission is pursued by integrating fundamental research and engineering in the interlocking fields of processing, interpretation, visualisation of and interaction with data using data-, model- and knowledge-based methods and algorithms.

The Multimedia Computing Group within the Department of Intelligent Systems develops methods and algorithms that enable effective, efficient and intuitive access to large collections of heterogeneous, unstructured multimedia (multimodal, multisensory) data in real-world contexts. The developed solutions are oriented towards the needs of users and are realised using both the search and recommendation paradigms. The group combines expertise in multimedia information retrieval, recommender systems, multimedia signal analysis and processing, (social) network analysis, and quality of experience.

Job description

The successful candidate will strengthen the Multimedia Computing (MMC) Group's expertise in the design, development and implementation of innovative multimedia search/recommendation methods and algorithms, with consideration of user aspects such as personalisation, explanation and utility. Examples of research topics of interest are: dealing with multifaceted data (and data representations) and implicit user feedback; incorporating context, user interests and intents in the development of search and recommendation algorithms, and securing trust in and explainability of the search and recommendation results. The successful candidate will also contribute to teaching at the BSc and MSc levels, supervision of PhD students, research funding acquisition, technology transfer, and faculty management tasks.

Requirements

The candidate has a PhD in computer science or a related discipline, a proven track record of scientific excellence in the field(s) of multimedia search and/or recommender systems, excellent communication skills and the ambition to strengthen and expand the research and teaching of the MMC Group. He/she must be able to work effectively in a multidisciplinary team and have the ambition to build partnerships with leading academic and societal institutions and industries worldwide. Teaching experience at the university level is preferred. Teaching certificates are considered to be an advantage.

Conditions of employment

A tenure-track position is offered for six years. Based on performance indicators agreed upon at the start of the appointment, a decision will be made by the fifth year whether to offer you a permanent faculty position.

The TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. An International Children's Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

The TU Delft sets specific standards for the English competency of the teaching staff. The TU Delft offers training to improve English competency.

Inspiring, excellent education is our central aim. If you have less than five years of experience and do not yet have your teaching certificate, we allow you up to three years to obtain this.

Information and application

For more information about this position, please contact Prof. A. Hanjalic, phone: +31 (0)15-2783084, e-mail: a.hanjalic@tudelft.nl. To apply, please e-mail your application letter, curriculum vitae, publication list, research and teaching statements and the names of three references by **15 October 2016** to Mrs. A. J. Prummel, Hr-eemcs@tudelft.nl. When applying for this position, please refer to vacancy number EWI2016-29.