



Meer Zukunft

**The Institute for Visual and Analytic Computing** of the Faculty of Computer Science and Electrical Engineering at the University of Rostock invites applications for the position

**Junior Professorship for Subsea Imaging  
(salary level W1 with a tenure track for a W2 professorship)**

The employment takes place with fulfillment of the general labor law conditions in the employment relationship for a period of three years. An extension for a further three years is planned if the evaluation is positive. After the expiry of the fixed-term contract, awarding tenure (W2 professorship) is intended.

The core of the professorship is the research of algorithms for imaging techniques in underwater technology with a focus on hydroacoustic data, such as sidescan sonar imaging. With a special focus on real-time requirements, machine learning and visualization methods are to be further developed and combined to improve the analysis of complex and possibly multimodal data sets.

The development of such methods provides important fundamentals of visual and analytic computing with extensive applications in the fields of marine ecology, oceanography, offshore technology and fisheries. To strengthen research and teaching in this context, we are looking for a young scientist with an excellent track record in one or more of the following areas of computer science: 3D reconstruction and visualization of SONAR or ultrasonic data

- 3D reconstruction and visualization methods for sonar or ultrasound data
- Machine learning on sensor data (segmentation, object recognition, etc.)
- Real-time processing of multi-dimensional time series with focus on hydroacoustic or comparable data
- Algorithmics for synthetic aperture
- Sensor fusion of optical and acoustic data streams
- Use of physical models for data analysis.

The advertised professorship is part of the expansion of the research capacities of the University of Rostock in the field of digital underwater technology and thus flanks the development of the Ocean Technology Campus Rostock. The research will be conducted in close cooperation with Fraunhofer IGD and its Digital Ocean Lab as well as with the Department of Maritime Systems of the Interdisciplinary Faculty of the University of Rostock. For the establishment of an own research group, the professorship will be provided with personnel and material resources of 1 million until at least 2025. In addition to the above-mentioned thematic orientation, experience in the acquisition and execution of third-party funded projects as well as experience in teaching are desirable. From the future holder of the position (\*gn) we also expect an adequate participation in the subject-specific courses as well as in the undergraduate the undergraduate courses of the Computer Science department.

For further inquiries, please contact:  
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Qualifications are as per § 62 of the Higher Education Act of the State of Mecklenburg-Vorpommern (LHG M-V).

The professorship is to be filled according to § 62 LHG M-V as a regular state employee. Pursuant to § 62a LHG M-V, the appointment to the junior professorship is linked to the promise that a professorship in the civil service status for life or as a regular state employee will be accepted if the individual defined performance requirements are met during the junior professorship. Before the end of the second phase of the junior professorship, a tenure track evaluation is carried out in order to check the prerequisites for taking on the permanent W2 professorship. According to § 62 (2) LHG, an interim evaluation takes place in the course of the third year of the junior professorship.

The University of Rostock is committed to their university management guidelines.

Equal opportunities are part of our personnel policy. The announcement is therefore aimed at all persons regardless of their gender (\* gender-neutral). Disabled applicants will be given preference if all other qualifications are essentially equal.

The University of Rostock is especially interested in promoting women within the context of § 7 (3) of the Gender Equality Act, and therefore specifically encourages applications from qualified women. Women will be given priority if their qualifications are essentially equivalent, unless reasons attributable to the person of the competitor predominate.

Applications with the usual documents (full CV, a complete list of academic and professional background, publications, teaching experience, certificates, any additional qualifications, a summary of grants and sponsored research activities and a description of future research plans) should be sent no later than **31.05.2022** to the University of Rostock, Dean of the Faculty of Computer Science and Electrical Engineering, Albert-Einstein-Straße 2, 18059 Rostock or preferably by e-mail to [berufungen.ief@uni-rostock.de](mailto:berufungen.ief@uni-rostock.de) (please all documents in one PDF file). We would like to point out that your e-mail will be sent to us unencrypted.

The protection of your personal information is very important to us. Therefore, the data collected during the application process will be collected, processed and used in accordance with the relevant data protection rules.

Application costs cannot be reimbursed by the State of Mecklenburg-Vorpommern. We ask you to submit applications only in copy, as they will not be returned after the procedure has been completed.