



University of Stuttgart

IntCDC/ELLIS Independent Junior Research Group Leader (m/f/d, E14 TV-L, 100%) on Computer Vision for Architecture, Engineering and Construction (AEC)

The **University of Stuttgart** stands for excellent, globally recognized research and first-class teaching in one of Europe's most dynamic industrial regions. With over 22,000 students and more than 5,800 employees, we are a reliable partner for knowledge and technology transfer and one of the largest employers in the state capital.

The **Cluster of Excellence IntCDC - Integrative Computational Design and Construction for Transformative Architecture**, which is funded by the German Research Foundation (DFG) from 2019 to 2032 as part of the federal and state governments' Strategy for Excellence, bundles the internationally recognised competencies of the University of Stuttgart, the Max Planck Institute for Intelligent Systems and Bauhaus Earth. It aims to lay the methodological foundations for the urgently needed, future-proof transformation of the way buildings are designed and constructed. Based on highly interdisciplinary and integrative research, IntCDC seeks to harness the full potential of digital technologies to concurrently advance computational design and engineering methods, cyber-physical fabrication, construction and renovation processes, and next generation material and building systems (www.intcdc.uni-stuttgart.de).

The mission of the **European Laboratory for Learning and Intelligent Systems (ELLIS)** is to create a diverse European network that promotes research excellence and advances breakthroughs in AI, as well as a pan-European PhD program to educate the next generation of AI researchers. The ELLIS Unit Stuttgart (<https://ellis-stuttgart.eu/>) brings together an interdisciplinary team of outstanding researchers at the University of Stuttgart and the Stuttgart site of the Max Planck Institute for Intelligent Systems (MPI-IS) advancing research in learning and intelligent systems from four synergistic perspectives: Interactive Intelligent Systems, Natural and Programming Language Processing, Learning Theory, and Robot Learning (<https://ellis-stuttgart.eu/research/>).

To strengthen our joint research activities, we are looking for an excellent and highly motivated scientist with an outstanding early-career track record (e.g. demonstrated by publications at top conferences and journals, visible research impact, and/or international research experience) as **IntCDC/ELLIS Independent Junior Research Group Leader in the field of Computer Vision for Architecture, Engineering and Construction (AEC)**, or other closely related topics contributing to the Cluster's research agenda. Applicants should have received excellent academic degrees in Computer Science and will contribute to the different project networks within IntCDC: <https://www.intcdc.uni-stuttgart.de/research/>

The successful candidate will **bridge Computer Science and AEC**. In this role of bridging, the successful candidate will be keen to engage with AEC and bring in excellent research

expertise in Computer Vision in one or more of the following fields:

- Spatial AI, 3D and dynamic scene understanding, reconstruction, and modelling, semantic scene graphs, visual recognition and tracking
- Computer vision and geometry processing, geometric representations
- Computer vision for human-computer interaction, human-robot interaction, or XR (e.g., activity or gesture recognition, user modelling, etc.)
- Combination of computer vision and computer graphics, neural rendering
- Computer vision for Physical AI
- Vision-language(-action) and visual foundation models, multimodal learning
- Generative AI methods for the aforementioned fields

The successful candidate will **lead a new Independent Junior Research Group** jointly affiliated with the Cluster of Excellence IntCDC and the ELLIS Unit Stuttgart. The position will be fully-funded until 31.12.2032, including the group leader position (TV-L E14), funds for doctoral projects (TV-L E13), and annual budget. The establishment of a competitive research program and proactive collaboration with IntCDC partners at the University of Stuttgart, the Max Planck Institute for Intelligent Systems, and Bauhaus Earth is expected. The research group will benefit from IntCDC's supporting structures, instrumentation and labs, as well as its embedding in the ELLIS Unit. The scientific language of IntCDC is English.

The full-time position is on a **fixed-term contract until 31 December 2032**. The start date is as soon as possible, but can be adjusted to suit the availability of the successful candidate.

To apply, submit your application to **jobs@intcdc.uni-stuttgart.de** as **one single PDF file** (max. 10 MB) comprising (1) a cover letter, (2) an academic CV, (3) a full list of publications, (4) a description of past and future research activities (explicitly linking the research to both ELLIS and IntCDC), (5) degree certificates, and transcripts of records from Bachelor/Master/PhD degrees, (6) reprints of up to three key publications, (7) other work samples if applicable, (8) three reference letters. Please be aware of the risks regarding confidentiality and the integrity of your application contents when sending your application via email. Please use "IntCDC/ELLIS JRGL Computer Vision for Architecture, Engineering and Construction (AEC)" as the subject of your application email. Applications will be reviewed on a rolling basis. The initial application deadline is **15 November 2026**.

Information on how we handle applicant data in accordance with Article 13 of the EU General Data Protection Regulation can be found at www.uni-stuttgart.de/en/privacy-notice/job-application/.

If you have any questions about the position, Prof. Dr. Daniel Weiskopf is looking forward to your call at +49-711-685-88602 or by email to Daniel.Weiskopf@visus.uni-stuttgart.de.



The University of Stuttgart is committed to diversity, equal opportunity, and helping its employees balance work and family life. Applications are welcome regardless of background, gender, age, religion, or disability. In areas where women are underrepresented, equally qualified female applicants will be given preferential consideration; the same applies to equally qualified applicants with severe disabilities. This position can also be filled on a part-time basis or as a job share.