Two PhD Positions in Computer Vision/Artificial Intelligence for Healthcare @ University of Strasbourg, France

Overview:
The operating room is a high-tech environment in which the equipment generates a lot of data about the underlying surgical activities. Our research group aims at making use of this large amount of multi-modal data coming from both cameras and surgical devices to develop an artificial intelligence system that can assist the clinicians and staff in the surgical workflow. In this scope, we currently have two open PhD positions that will focus on developing new machine learning and computer vision methods to detect, recognize and analyze human activities. The successful candidates will have the rare opportunity to apply their work on large RGB-D and endoscopic video datasets captured during real procedures using the state-of-the-art facilities of our clinical partners. If interested, they will also have the exceptional possibility to collaborate with engineers and clinicians to implement real-time clinical demonstrators of their research, thereby contributing to the development of real-world AI-based solutions for the OR.

More information about our research is available on our website:
http://camma.u-strasbg.fr/
http://camma.u-strasbg.fr/videos
http://camma.u-strasbg.fr/publications

Requirements:
Strong C++ programming skills
Experience in computer vision and machine learning
Proficiency in English (oral and written)
Experience in GPGPU programming and Deep Learning is a plus

Environment:
The position is located in Strasbourg, France. Strasbourg is a lively, green and cosmopolitan city situated in the heart of Europe and is also home to the European parliament. The successful candidate will work with the research group CAMMA and be hosted within the IRCAD institute at the University Hospital of Strasbourg. He/She will thereby have direct contact with clinicians, industrial partners and also have access to an exceptional international research environment.

Benefits:
Cutting-edge research in an interdisciplinary and leading international research environment
Ability to work at the forefront of a rapidly growing field at the intersection of computer science, artificial intelligence and medicine

Supervisor:
Nicolas Padoy, PhD, Assistant Professor, holder of a Chair of Excellence at University of Strasbourg

Contact:
To apply, please send a long CV, motivation letter and academic transcripts to Nicolas Padoy (npadoy _AT_ unistra.fr). Both positions will be open until suitable candidates are found.