

Series of ARAS Public Webinars

Haptic Technology in Intraocular Surgeries

Speakers



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Date & Time

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Abstract

Intraocular surgery is a hot topic of research among researchers, who are looking into novel areas in which haptic systems and assistive technologies would be beneficial. Since the human eye is a highly delicate organ with minuscule anatomic structures, the ocular surgeries are needed to be performed under extra precision and higher manipulation capabilities in contrast to other surgeries. In fact, any minute surgeon miss-manipulation, which might be negligible in the majority of other surgical operations, might lead to disastrous complications and even blindness for the patient in the ocular surgeries. This fact underlines the importance of **assistive technologies** in eye surgical procedures. The assistive technologies aim at giving extra manipulation to the surgeon during the operation or help the novice surgeons to obtain the required skills before performing actual operations at the surgical room. This presentation reviews novel recent breakthroughs along with new areas in which haptic systems and assistive technologies might provide a viable solution to overcome current challenges. Furthermore, **ARAS Haptic system** developed for eye surgery training will be introduced as a novel system used in intraocular surgeries.

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