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Medical devices of the future will face a myriad of new challenges – not only technical, but financial and sociological. Professor Antaki is devoting his career to meeting such challenges by developing a new approach for translating medical discoveries to clinical practice: one that is more holistic, prescriptive, multi-scale and multi-disciplinary. His research emphasizes the methodology by which medical inventions are conceptualized, optimized, and implemented. The current application areas include: circulatory support systems for children, decision-support tools for personalized management of cardiac disease, multi-scale modeling of thrombosis, and medical devices for global health. An overarching interest is developing an infrastructure for crowd-sourced medical innovation that may ultimately contribute to more effective, preventative, and affordable healthcare, particularly in under-resourced settings.

