

## **Interventional Cardiovascular Magnetic Resonance Imaging**

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Catheter based approaches have revolutionized the treatment of cardiovascular diseases. Nowadays, interventional cardiac transcatheter therapies are targeting more complex pathologies, but X-ray fluoroscopy is not a sufficient medical imaging modality due to its poor soft tissue contrast. On the other hand, Magnetic Resonance Imaging offers ionizing radiation-free imaging modality with increased soft tissue contrast and unconstrained imaging planes but suffers from a lack of dedicated MRI compatible interventional devices for cardiac procedures. This presentation will highlight novel MRI compatible and visible interventional device technologies and also will introduce pre-clinical complex cardiovascular applications such as ventricular septal defect repair, cardiac biopsy and trans-catheter aortic valve implantation under MRI.

### **Biography:**

Dr. Ozgur Kocaturk is Associate Professor at Bogazici University, Institute of Biomedical Engineering Istanbul, Turkey.