

# Wearable and Robotic Camera Networks

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**Abstract:** The rapid progress in hardware, models and algorithms for smart camera networks will support the emergence of applications for the collaborative recognition of events using networked wearable cameras and networked camera-equipped unmanned vehicles (i.e. robotic camera networks). However, important challenges need to be addressed to enable wearable and robotic camera networks to impact on in-home assistive technologies, search and rescue missions, disaster management, routine monitoring and wildlife conservation. These challenges include efficient processing and decision making, adaptation to dynamic topology changes, coordination among heterogeneous devices, and the online evaluation of task performance. In this talk, I will discuss these challenges and present with several examples solutions from current and recent projects.