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**James Brian Hall\*** ([james.hall@intel.com](mailto:james.hall@intel.com)) and **Dante Salas**. *A Geometric Method for Corresponding Images of Athletes from a Camera Array*. Preliminary report.

As virtual and augmented reality technologies mature, there has been growing interest in developing camera systems that can capture content suitable for presentation in 3 dimensions. Intel Sports is a pioneer in the field of these next generation capture technologies, using arrays of cameras to produce sports content suitable for display in 3D. One challenge for these camera arrays is reliably corresponding athletes across different images captured by this array of cameras. In this talk, we will discuss an approach to solving this problem, which utilizes a novel combination of classical techniques from machine vision and numerical linear algebra. (Received September 25, 2018)