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Sommario/riassunto	PETRA is an interdisciplinary conference with focus on pervasive technologies that improve the quality of life and enhance human performance. Results presented range from basic research in computer vision, machine learning, data mining and big data, to engineering applications, sensors, devices and software solutions that address physical, cognitive, mental and communication abilities and performance. The conference addresses the needs of both healthy individuals and persons with special needs, such as providing safe in-home care for the elderly, or persons with Dementia, Alzheimer's, Parkinson's, chronic arthritis, PTSD, low vision, and other conditions. PETRA's computer-based methods can help people build, stone by stone (PETRA means stone in Greek), new ways of life to survive in an increasingly challenging world.