

came from as a guide. Finally, it uses the differences between the two images to calculate the photographer's position. The software can match two images even when they are taken at a different times of day, from different angles and with clutter such as pedestrians and vehicles in the way. "That's an easy problem for a human, but it's very difficult for a computer," says Robertson. However, the system's commercial future is uncertain. "The question is: how much are people prepared to pay for it, and how often will they use it?" says Rob Morland, of technology consultants Scientific Generics near Cambridge. "That's a tough one." For now, Cipolla and Robertson are optimistic. In March they received funding to start working on a prototype to cover all the buildings in Cambridge city centre. James Randerson (from http://www.newscientist.com/news/news.jsp? id=ns99994857) Brief Biography Roberto Cipolla obtained a B.A. (Engineering) from the University of Cambridge in 1984 and an M.S.E. (Electrical Engineering) from the University of Pennsylvania in 1985. From 1985 to 1988 he studied and worked in Japan at the Osaka University of Foreign Studies (Japanese Language) and Electrotechnical Laboratory, Tsukuba (visiting scientist) and he obtained an M.Eng. (Robotics) from the University of Electrocommunications in Tokyo in 1988. In 1991 he was awarded a D.Phil. (Computer Vision) from the University of Oxford and from 1991-92 was a Toshiba Fellow and engineer at the Toshiba Corporation Research and Development Centre in Kawasaki, Japan. He joined the Department of Engineering, University of Cambridge in 1992 as a Lecturer and a Fellow of Jesus College. He became a Reader in Information Engineering in 1997 and a Professor in 2000. His research interests are in computer vision and robotics and include the recovery of motion and 3D shape of visible surfaces from image sequences; visual tracking and navigation; robot hand-eye coordination; algebraic and geometric invariants for object recognition and perceptual grouping; novel man-machine interfaces using visual gestures and visual inspection. He has authored 3 books, edited 6 volumes and co-authored more than 200 papers. Duncan Robertson is a Research Associate in Cambridge University Engineering Department. He is in the Machine Intelligence Group in the Information Engineering Division. He is also a member of Downing College. (from http://mi.eng.cam.ac.uk/research/vision/people.html)

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