Richard J. Radke

Professor, Electrical, Computer, and Systems Engineering at Rensselaer Polytechnic Institute
Troy, NY, US

Studies computer vision problems related to human-scale, occupant-aware environments

Biography

Richard J. Radke joined the Electrical, Computer, and Systems Engineering Department at Rensselaer in 2001, where he is now a full professor. Radke?s current research interests involve computer vision problems related to human-scale, occupant-aware environments, such as person tracking and re-identification with cameras and range sensors. Radke is affiliated with the NSF Engineering Research Center for Lighting Enabled Services and Applications (LESA), the DHS Centers of Excellence on Explosives Detection, Mitigation and Response (ALERT) and Soft target Engineering to Neutralize the Threat Reality (SENTRY), and Rensselaer?s Experimental Media and Performing Arts Center (EMPAC) and Cognitive and Immersive Systems Laboratory (CISL). He has bachelor?s and master?s degrees in computational and applied mathematics from Rice University, and master?s and doctoral degrees in electrical engineering from Princeton University. He received an NSF CAREER award in March 2003 and was a member of the 2007 DARPA Computer Science Study Group. Dr. Radke is a senior member of the IEEE and was a senior area editor of IEEE Transactions on Image Processing. His textbook Computer Vision for Visual Effects was published by Cambridge University Press in 2012. His YouTube Channel contains many annotated lectures on signal processing, engineering probability, image processing, and computer vision.

Areas of Expertise

Social Signal Processing, Video Processing, Human-Scale, Occupant-Aware Environments, Radiotherapy, Smart Lighting, Computer Vision, Video Analytics, Visual Effects

Affiliations

NSF Engineering Research Center for Lighting Enabled Services and Applications (LESA), DHS Center of Excellence on Explosives Detection, Mitigation and Response (ALERT), Experimental Media and Performing Arts Center (EMPAC), Cognitive and Immersive Systems Laboratory (CISL)

Education

Princeton University
Ph.D. Electrical Engineering

Rice University
M.A. Computational and Applied Mathematics

Rice University
B.A. Computational and Applied Mathematics

Accomplishments

NSF CAREER award
2003
