

## **Ryad BENOSMAN**

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Ryad Benosman is a full Professor with University Pierre and Marie Curie, Paris, France, leading the Natural Computation and Neuromorphic Vision Laboratory, Vision Institute, Paris.

He received the M.Sc. and Ph.D. degrees in applied mathematics and robotics from University Pierre and Marie Curie in 1994 and 1999, respectively.

His work covers neuromorphic visual computation and sensing and event based computation. He is currently involved in the French retina prosthetics project and in the development of retina implants and cofounder of Pixium Vision a french prosthetics company.

He also actively works on retina stimulation using optogenetics with Gensight Biologics.

He is an expert in complex perception systems, which embraces the conception, design, and use of different vision sensors covering omnidirectional 360 degree wide-field of view cameras, variant scale sensors, and non-central sensors.

He is among the pioneers of the domain of omni-directional vision and unusual cameras and still active in this domain.

He has been involved in several national and European robotics projects, mainly in the design of artificial visual loops and sensors. His current research interests include the understanding of the computation operated along the visual systems areas and establishing a link between computational and biological vision.

Ryad Benosman has authored more than 100 scientific publications and holds several patents in the area of vision, robotics, event-based sensing and prosthetics.

In 2013 he was awarded with the national best French scientific paper by the Journal La Recherche for his work on neuromorphic retinas and their applications to retina stimulation and prosthetics.