

Francisco P. Maturana
RESUMÉ

Francisco P. Maturana, Ph.D. is a Senior Research Engineer at Rockwell Automation Advanced Technology Laboratory in Cleveland Ohio. For a number of years Dr. Maturana has been dedicated to the R&D of Autonomous Cooperative Agents for distributed reasoning, planning and production control systems. He has developed simulation and control infrastructures for the validation of multi-agent systems and agent firmware for industrial controllers. His research interests are in distributed computing, agent learning and diagnostics, FIPA and communication protocols for multi-agent systems, and self-organizing manufacturing systems. He is a co-manager of the Holonic Control Devices work package for the Holonic Manufacturing Systems (HMS) consortium. He implemented agent systems for steel mill industry and modeled architectures for material handling and logistics systems (including fast sorting and distribution centers). He has been a project manager and technical lead in the implementation of Reconfigurable Shipboard automation systems for the Navy under Office of Naval Research (ONR) contracts. He has done collaborative research with the Johns Hopkins University Applied Physics Lab. He has published several conference and journal papers and has been awarded with 9 US patents and European patent publications in agent technology. Dr. Maturana received his BS in Mechanical Engineering from The University of Santiago of Chile, MS in Mechanical Engineering and Simulation Science from The California State University, Chico, and Ph.D. in Intelligent Manufacturing Systems from The University of Calgary, Canada. Dr. Maturana's current research interests are in the implementation of reusable agent tools and the application agent systems to power distribution, water distribution and treatment, and manufacturing.