Joseph Mitola III Consulting Scientist The MITRE Corporation

A consulting scientist with The MITRE Corporation, Mr. Mitola has been a principal architect of the migration of billions of dollars of legacy telecommunications and information processing systems to commercially based, software-programmable and highly interoperable open -architecture systems of the future. At present, Mr. Mitola is a doctoral candidate with The Royal Institute of Technology (KTH), Stockholm, Sweden, via MITRE's accelerated graduate degree program. His research interests include cognitive radio, the integration of intelligent agent technology into mobile wireless systems.

Mr. Mitola is internationally recognized as the "Godfather" of the software radio, having coined the term in 1991 to signal the shift in radio technology from digital radio with "80% hardware and 20% software" to radios in which 80% of the value-added of the radio is in the software. In addition to having published the first paper on software radios in 1992, Mr. Mitola writes and teaches internationally on this technology. He was guest editor of the May 1995 special issue of the IEEE Communications magazine on software radios and the February 1999 update, "The Globalization of the Software Radio." He was also the lead editor of the IEEE Journal on Selected Areas in Communications (JSAC) on the software radio (April 99). As lead editor of the IEEE Communications Magazine's series on Software and Digital Signal Processing in radio, he contributes to the joint commercial and military development of software radio technology and systems. elected as the first chair of the global Software-Defined Radio Forum in 1996, and continues to foster dual use, militarycivilian, plug-and-play radio technology in that forum.

Prior to joining The MITRE Corporation in 1993, Mr. Mitola was the Chief Scientist of Electronic Systems, E-Systems Melpar Division, where he was responsible for research and technology development for advanced communications and electronic warfare systems for the US Department of Defense (DoD). He previously held positions of technical responsibility with Harris Corporation, Advanced Decision Systems, and ITT Corporation. He began his career as an engineering student assistant with the US DoD in 1967. He has been awarded the Bachelor of Science in Electrical Engineering degree from Northeastern University (Highest Honors), a Masters in Engineering degree from The Johns Hopkins University, and the Licentiate in Engineering from the Royal Institute of Technology (KTH).