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Timothy Pham is a member of the technical staff at the Jet Propulsion Laboratory. He currently serves as the Chief System Engineer for the NASA Deep Space Network (DSN). The DSN is a worldwide ground system used for tracking and communications with interplanetary as well as near Earth spacecraft. It also serves as a scientific instrument for research in radio science, planetary radar and radio astronomy.

Tim received a BSEE from the California Institute of Technology and a MSEE from the University of Southern California. His interest is in system engineering and system development. As the project element manager, he led the development of the antenna arraying used by Cassini, Spitzer and Voyager missions, and the tone detection for Entry Descent and Landing stage of the two Mars rovers Spirit and Opportunity. He also served as the lead system engineer in the developments of the ground telemetry system to maximize the data return for Galileo mission via the low gain S-band antenna, the DSN Radio Science system and the Goldstone Solar System Radar system.

Tim had published several papers on the topics of antenna arraying, spacecraft tracking, system modeling and performance analysis. He co-authored the book “Antenna Arraying Techniques in the Deep Space Network”. He was the recipient of the NASA Exceptional Service Medal in 2000 and NASA Exceptional Achievement Medal in 1997, plus several NASA New Technology and Space Act Awards.

Tim has been serving on the Technical Advisory Panel on the IARIA Advances in Satellite and Space Communications Conference. His papers were selected for the Best Papers Awards for Spacomm 2011 and 2012.