

Declaration in support of Alberto Paoluzzi's candidacy as professor emeritus

I have known professor Alberto Paoluzzi since the 1980s, when we were both carrying out research in geometric modeling, studying and developing both the theoretical foundations of this new discipline and its applications in CAD contexts. In fact, we have both been awarded the title of pioneers of solid modeling by the Solid Modeling Association.

In the journals and conferences dedicated to this topic, he has contributed to the growth of the scientific community with his innovative works. I mention for example the development of the "Minerva" solid modeler on personal computers (1985- 1995); the "winged" representation of multidimensional triangulated spaces; several generalizations of BSP-trees as solid representations, which have had a significant scientific and applicative impact. These and other ideas provided foundation for the design language PLaSM, developed in the nineties. PLaSM is now used widely for teaching programming and geometry to students in schools and universities, and by researchers as a powerful tool for fast testing of geometric algorithms and data structures.

In addition to his role as a researcher, Alberto Paoluzzi has always been a formidable mentor, raising a great number of students and young researchers, who have achieved success both in the academic and productive world, in Italy and abroad.

Finally, he has always carried out an intense project activity, also realized with international collaborations, e.g. with professor Bajaj of the University of Austin, and professor Shapiro of the University of Wisconsin.

For his skills and the results obtained during his long career, I believe that Alberto Paoluzzi deserves the title of professor emeritus from the University of Roma 3.

In faith



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