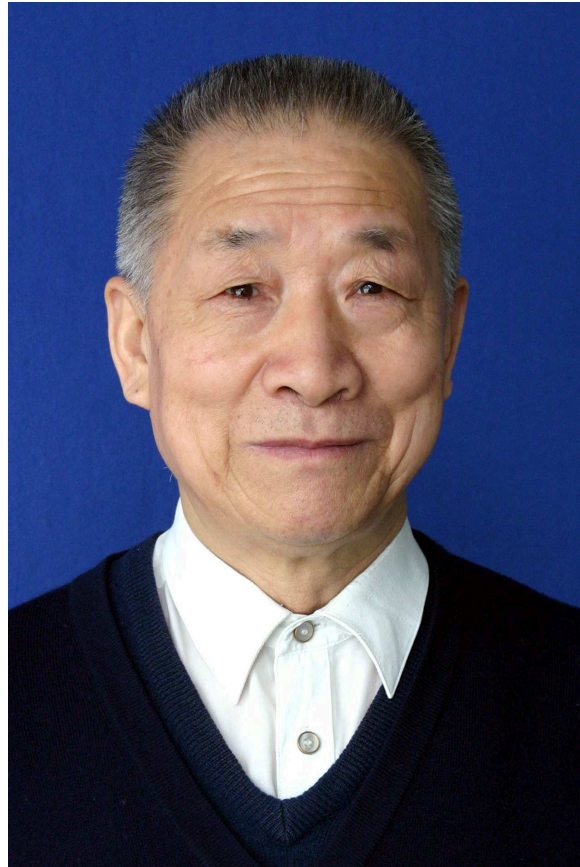


**CONGRATULATIONS TO ACADEMICIAN JUNZHI CUI ON HIS  
70<sup>th</sup> BIRTHDAY**



Professor Junzhi Cui was born on June 15, 1938 in Xinxiang, Henan Province in China. He graduated from the Department of Mathematics and Mechanics, Northwestern Polytechnic University in 1962. Since then, he has been working in the Institute of Computing Technology (1962-1978), the Computing Center (1978-1995), the Institute of Computational Mathematics and Scientific/Engineering Computing (1995-1998), and the Academy of Mathematics and Systems Science (1998- ) of the Chinese Academy of Sciences (CAS). During 1991-1995, he was the Director of the Computing Center and the Principal Investigator of the project “Science Database Project” funded by the National Science Foundation of China (NSFC). He is currently the Director of the Academic Committee of the State Key Laboratory of Scientific and Engineering Computing (2006- ).

Professor Cui was elected an academician of the Chinese Academy of Engineering (CAE) in 1995. He has served on the standing committee and as the Vice Director

(1995-2002, 2004- ) of the Division of Civil, Hydraulic and Architecture Engineering of CAE.

Professor Cui has devoted himself to the study of the theory and applications of computational mathematics, computational mechanics and software engineering for more than 45 years. In the 1960's he studied finite element methods under the guidance of Professor Kang Feng. In the Spring of 1964, he independently developed the first FEM program in China for plane elastic problems, and successfully solved the problem of stress analysis for Luiji Xia Dam. In 1973 he first discovered that the stress states inside contact bodies with initial gaps and friction depend on the history of imposed loading, and developed a suite of successive linearization methods in terms of incremental theory and variational inequality, and implemented the method to solve the contact problem in Gongzhui Dam with long vertical cracks and its reinforcement. Since 1980 he has been in charge of a series of National Key Projects from the "6.5", "7.5", "8.5", "9.5" ED Plan, the key project of CAS, and several projects from NSFC. He has completed a number of large-scale software projects with his colleagues, including FEPS, BDP, and SEFEM. With the completion of these projects he established a suite of software engineering methods for developing the application software in science and engineering, such as the adaptive organization method of algorithms, configuration model of software system, and so on. From the middle of the 1990's he has been focusing on the study of the multi-scale computational method and its applications. He has successfully developed a class of high-order and two-scale methods for predicting the physical and mechanical behaviors of composite materials and their structures.

Together with his colleagues he has solved about two dozens of computational problems from civil and mechanical engineering, and published more than 100 research papers and reports, 3 books, and completed more than 30 technical reports for government agents and companies. He has been awarded six prizes from the state ministries and CAS, including an 2nd Prize of Natural Science Award from the State Council (1981), an 1st Prize of Science and Technology Award from CAS (1986), and an 1st Prize of Computer Applications from the State Council (1986).

Professor Cui served on the editorial boards of a dozen academic journals, and was the associate editor-in-chief or a member of the executive committees of important international journals, such as *Journal of Computational Mathematics* and *Acta Mechanica Sinica*. He has served on the S/T Committee of the Construction Ministry for more than ten years, and held visiting/adjunct positions at more than 10 universities, research laboratories and engineering centers in China.

Professor Cui has contributed greatly to the development of scientific and engineering computation in China. On the occasion of his 70th birthday, we sincerely wish him a happy birthday and good health!

Institute of Computational Mathematics  
and Scientific/Engineering Computing  
Academy of Mathematics and Systems Science  
Chinese Academy of Sciences