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PROFESSOR PETRU T. MOCANU ON HIS 70^{th} BIRTHDAY

Professor Petru T. Mocanu was born on June 1, 2001 in Brăila, Romania. He attended primary and secondary school in Brăila, then went on to take his undergraduate (1950-1953) and postgraduate degrees (1953-1957) at the Faculty of Mathematics, University of Cluj (now the Babeş-Bolyai University of Cluj-Napoca). In 1959 he defended his doctoral dissertation which was written under the guidance of the great Romanian mathematician G. Călugareanu. Professor Mocanu's doctoral thesis was entitled *Variational methods in the theory of univalent functions*.

Professor Mocanu has worked at Babeş-Bolyai University as Assistant Professor (1953-1957), Lecturer (1957-1962), Associate Professor (1962-1970) and Full Professor (1970 to the present). He was Visiting Professor at Conakry, Guinea (1966-1967) and at Bowling Green State University, Ohio, USA (fall semester, 1992), and invited to give lectures to international audiences at many different universities since 1966. These have included various universities in the United States and Germany, including University of Michigan, Iowa University, and the University of Hagen. Professor Mocanu has also taught at the University of Rouen in France, the Universities of Lodz and Lublin in Poland, the University of Jyvaskyla in Finland and other universities in Hungary and Moldavia.

Professor Mocanu has held a number of distinguished positions at Babeş-Bolyai University. He has served as Dean of the Faculty of Mathematics (1968-1976 and 1984-1987), Head of the Sub-Department of Function Theory (1976-1984 and 1990-2000), Head of Department of Mathematics and Vice-Rector of the University (1990-1992). He is also the Chief Editor of *Mathematica (Cluj)*, a member of the Editorial Board of *Studia Universitatis Babeş-Bolyai* and *Bulletin de Mathématiques S.S.M.R.*, the Chairman of the Seminar of Geometric Function Theory, Department of Mathematics at Babeş-Bolyai University and the Head of the Romanian School of Univalent Functions.

Since 1972 Professor Mocanu has been an active supervisor of doctoral degrees; under his guidance 25 students have completed PhD degrees and another 10 are currently preparing their dissertations. He has a wide range of teaching interests and many students have benefited from his expertise.

Among the subjects he has offered is a basic course on Complex Analysis and he has developed many other specialized courses (Univalent Functions, Differential Subordinations, Geometric Function Theory, Measure Theory, Hardy Spaces etc.) He is also the author of two handbooks on Complex Analysis that have become standard texts for Romanian students of mathematics.

Professor Mocanu is also:

- Corresponding Member of Romanian Academy,

- President of the Romanian Mathematical Society,

- Member of the American Mathematical Society,

- Doctor Honoris Causa, University "Lucian Blaga", Sibiu (Romania) - 1998,

- Doctor Honoris Causa, University of Oradea (Romania) - 2000.

In terms of published research Professor Mocanu's output has been prodigious. He is the author more than 155 papers in the field of Geometric Function Theory (Univalent Functions) and has written two important monographs: *Geometric Theory of Univalent Functions* (in Romanian), Ed. Casa Cărţii de Ştiinţă, Cluj-Napoca, 1999, 410 pages (with T. Bulboacă and Gr. Şt. Sălăgean) and *Differential Subordinations: Theory and Applications*, Marcel Dekker, Inc., New York, Basel, 2000, 459 pages (with S. S. Miller). Approximately 200 mathematicians worldwide have cited his research in more than 500 papers. The work of Professor Mocanu and Professor Miller on the method of differential subordinations (admissible function method) has an international reputation and has proved very influential within research activity in the field of Geometric Function Theory.

Professor Mocanu obtained important results in the following domains (see "Scientific Papers"):

- **extremal problems in the theory of univalent functions** [1-5, 8, 9, 12, 13, 15, 17, 18, 20-22, 24, 25, 27, 37, 42, 47, 72, 91, 125, 144]

- **new classes of univalent functions** (well known is the class of alpha-convex functions) [7, 10, 14-16,19, 23, 26-32, 34-36, 38, 40, 41, 43, 46, 65, 70, 95, 99, 102, 103, 109, 114, 124, 126, 130, 131, 142]

- **integral operators on classes of univalent functions** [44, 45, 48, 55-58, 62-64, 66, 67, 69-71, 73, 76, 78, 80-83, 88-90, 92-94, 96-98, 100, 102, 103, 106, 110, 111, 115, 123, 129, 132, 136, 146, 151]

- **differential subordinations** [49, 50, 52, 53, 61, 64, 68, 74, 77, 79, 85-87, 101, 104, 105, 107, 111-113, 119, 122, 137, 139, 141]

- **conditions of diffeomorphism in the complex plane** [51-54, 59, 60, 75, 95,128, 143, 154]

- **sufficient conditions for injectivity, starlikeness or convexity** [116-118, 120, 121, 128, 133-135, 138, 140, 145, 147-150, 152, 153, 155].

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