

**Alexandru SERBANESCU**

**Born** on 02.03.1943

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**Married**, 2 children

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## CURRICULUM VITAE

### Formation

**MS** in Telecommunications (1965), **Ph.D.** in IT&C (1974), from “**Politehnica**”  
University of Bucharest, Romania

### Experience

**Engineer** in a Telecom Factory (1965-1967), Bucharest, Romania

**Scientific researcher** in the “**Institute of Research for Telecommunications**”  
(1967-1982), Bucharest, Romania

**Assistant Professor** at “**Politehnica**” University, Bucharest (‘66/’91).

**Assistant Professor** at *Military Technical Academy* Bucharest, (1981/’91)

**Professor** at *Military Technical Academy* (1991/-) Bucharest, Romania

**Doctoral Advisor** in IT&C (1991/-), *Military Technical Academy*, Bucharest,

**Professor emeritus** at *Military Technical Academy* (2010/-), Bucharest, Romania

### Main research interests:

- Digital Signal Processing
- Computer Aided Design and Optimization based on Artificial Intelligence
- Systemic Approach in IT&C
- Dynamic Systems: Chaos based Communications, Control of chaos.
- Chaos based Encryption;
- Nonlinear System Analysis using Recurrence Plot Analysis (**RPA**) and **RQA**

### Publications:

- Author or co-author of more than **200 articles** and **scientific papers**
- Author or co-author of **20 edited books** e.g.
  - “*Switched Capacitor Circuits*”, 1987, Ed. Militara, Bucharest, Romania
  - “*Le traitement du signal sous Matlab*”, 2000, Hermes, France
  - “*Development of some encryption algorithms using chaos*”, 2011, LAMBERT Acad. Publ.
  - “*Dynamic Systems - Applications in Communications*”, 2004, Bucharest.
  - “*Systemes et Signaux face au Chaos*” App. aux Communication., Bucharest, Romania
  - “*Analiza neliniara a seriilor de timp*”, 2014, Ed. ATM, Bucharest, Romania

**Programming languages:** C++, PSpice (OrCAD), MATLAB and LabView

**Languages:** English, French

**IEEE Senior Member** from 1994 (Signal Processing, Communications and  
Computational Intelligence IEEE Societies)

Details on <http://alexserbanescu.ro/>

