

Ottavio Caligaris

Full professor

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Education and training

1978

Laurea in Matematica

Semigruppi lineari e non lineari in spazi di Banach Universita' di Genova - Genova - IT

Academic experience

1994 - **ONGOING**

Professore Ordinario

Universita' di Genova - Genova - IT

1992 - 1993

Professore Sraordinario

Universita' di Torino (sede di Alessandria) - Alessandria - IT

1990 - 1991

Professore straordinario

Universita' di Cagliari - Cagliari - IT

1980 - 1990

Professore Associato

Universita' di Genova - Genova - IT

1978 - 1980

Assistente Ordinario e Professore Incaricato

Universita' di Genova - Genova - IT

1975 - 1978

Assegnista

Universita' di Ganova - Genova - IT

1974 - 1975

Borsista CNR

Universita' di genova - Genova - IT

Teaching activity

My teaching activity is focused on Mathematical Analysis as the main tool inensicensible for scientific and technical studies.

I have mainly taught courses in Classical Mathematical Analysis which are preparatory to Engineering studies together with more advanced courses dealing with mathematical modeling and applications.

Research interests

- Variational Convergences
- Sufficient conditions for the minimum of an integral functional in infinite dimensional spaces
- Necessary conditions for the minimum of an integral functional in infinite dimensional spaces
- Extension of an integral functional defined on the space of asbolutely continuos functions to the space
- of bounded variation functions and characterization of such estension.
- Multiojective Optimiization problem
- Characterization of the semicontinuty of an integral functional defined in infinite
- dimensional space.
- Multidimensional integral functionals and reduction to one-dimensional integral funcionals on infinite dimensional spaces;
- Existence and unicity of solution for abstract differential equation through necessary conditions for the minimum of an integral functional.
- Existence and unicity of solution for partial differential equation through necessary
- conditions for the minimum of an integral functional.
- Mathematical modeling: numerical resolution of differential equations to partial
- derivatives; application of Neural Networks for surface approximation and time series study.