

# Esercizi di matematica: calcolo tensoriale (Italian Edition)

Furinghetti, F., & Somaglia A. (2018). The role of a journal on teaching mathematics and sciences issued at the beginning of the 20<sup>th</sup> century in professionalizing Italian primary school teachers. In F. Furinghetti & A. Karp (Eds.), *Researching the history of mathematics education. An international overview: ICME-13 Monographs*. (pp. 79-105). Cham, Switzerland: Springer.

## The role of a journal on teaching mathematics and sciences issued at the beginning of the 20<sup>th</sup> century in professionalizing Italian primary school teachers

Fulvia Furinghetti and Annamaria Somaglia  
Dipartimento di Matematica, Università di Genova, Italy

**Abstract.** This chapter examines the first non-ephemeral journal on teaching mathematics and sciences in primary school, which appeared at the beginning of the twentieth century in Italy. The project of publishing such a kind of journal is set in the context of the initiatives launched in the new Italian nation for creating a course of studies specifically addressed at educating primary school teachers. We outline the mission and vision of the journal by presenting the personality of the founder Alberto Conti (a leading character among the secondary school mathematics teachers of the period), and analyzing the content of the journal. The subjects treated were sciences and mathematics, but mathematics was the prevailing subject covered in the journal because its importance in primary education and the strong mathematical background of Conti. Most contributors, including the editors, were mathematics teachers in Italian schools for prospective primary teachers (*Scuole Normali*); their contributions reflect firsthand experience in this context. To involve the readers the journal published questions addressed to primary school teachers and to students of *Scuole Normali*. It is remarkable that female students were very active in answering the questions.

**Keywords:** professionalization, primary school teachers, mathematics, journals

### 1. Introduction

After the Congress of Vienna in 1815, the Italian territory was composed of some ten states. Gradually, a process of unification developed so that in 1861 the unified nation of Italy was born. The process of unification was promoted and led by the Kingdom of Sardinia, whose king became the king of the unified Italy<sup>1</sup>. Turin, the capital of the Kingdom of Sardinia, became the first capital of Italy. Rome was annexed to Italy *de facto* in 1870 and in 1871 *de jure* became the capital of the kingdom.

One of the main tasks of the government of the new state was the construction of a system of instruction (Canestri and Recuperati 1976; Dei 1998; Genovesi 2007). Mathematical instruction was one of the main issues in this construction (Giacardi 2006a; Giacardi and Seoth 2014). Before the unification, most paramount mathematicians of the nineteenth century participated in the Risorgimento, the Italian movement that promoted the unification of Italy. After the birth of the new state, mathematicians again had an active role in the construction of the system of instruction and also had official appointments to the Government: Luigi Cremona, for one, was senator, Minister of the Public Education, and member of the Board of Governors of

<sup>1</sup> After the Vienna Congress (1815) the Kingdom of Sardinia included Savoy, Piedmont, Liguria, the county of Nice, and Sardinia.

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