1.   Record Nr.   UNINA9910346692703321

         Autore   Gazeau Jean-Pierre

         Titolo   Joseph Fourier 250th Birthday. Modern Fourier Analysis and Fourier Heat Equation in Information Sciences for the XXIst century

         Pubbl/distr/stampa   MDPI - Multidisciplinary Digital Publishing Institute, 2019

         Descrizione fisica   1 online resource (260 p.)

         Lingua di pubblicazione   Inglese

         Formato   Materiale a stampa

         Livello bibliografico   Monografia

         Sommario/riassunto   For the 250th birthday of Joseph Fourier, born in 1768 in Auxerre, France, this MDPI Special Issue will explore modern topics related to Fourier Analysis and Heat Equation. Modern developments of Fourier analysis during the 20th century have explored generalizations of Fourier and Fourier-Plancherel formula for non-commutative harmonic analysis, applied to locally-compact, non-Abelian groups. In parallel, the theory of coherent states and wavelets has been generalized over Lie groups. One should add the developments, over the last 30 years, of the applications of harmonic analysis to the description of the fascinating world of aperiodic structures in condensed matter physics. The notions of model sets, introduced by Y. Meyer, and of almost periodic functions, have revealed themselves to be extremely fruitful in this domain of natural sciences. The name of Joseph Fourier is also inseparable from the study of the mathematics of heat. Modern research on heat equations explores the extension of the classical diffusion equation on Riemannian, sub-Riemannian manifolds, and Lie groups. In parallel, in geometric mechanics, Jean-Marie Souriau interpreted the temperature vector of Planck as a space-time vector, obtaining, in this way, a phenomenological model of continuous media, which presents some interesting properties. One last comment concerns the fundamental contributions of Fourier analysis to quantum physics: Quantum mechanics and quantum field theory. The content of this Special Issue will highlight papers exploring non-commutative

Fourier harmonic analysis, spectral properties of aperiodic order, the hypoelliptic heat equation, and the relativistic heat equation in the context of Information Theory and Geometric Science of Information.

2.	Record Nr.	UNINA990005287770403321
	Autore	Fustel de Coulanges, Numa Denis <1830-1889>
	Titolo	La città antica / Numa-Denis Fustel de Coulanges
	Pubbl/distr/stampa	Firenze, : Sansoni, 1972
	Descrizione fisica	XXIV, 469 p. ; 21 cm
	Collana	Classici della storia moderna
	Disciplina	938
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		FARBC
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