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Autore	Bourbakis Nikolaos
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Altri autori (Persone)	TsihrintzisGeorge A
	VirvouMaria
	JainL. C
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Intelligence, Systems, and Applications (IISA2023), Volos, Greece, 10–12 July 2024 along with additional relevant papers by invited authors. Information is widely available and accessible but frequently leads to information overload and overexposure and the effort for coding, storing, hiding, securing, transmitting, and retrieving it may be excessive. Intelligence, inspired by biological and other paradigms, is required to manage information and extract knowledge from it. Information and multimedia systems, with an increasing level of intelligence, are being developed that incorporate these advances. As a result, new technologies, protocols, and novel applications are emerging. In turn, the novel applications lead to the collection of new information, and the "Information à Intelligence à Systems à Applications" circle is repeated at ever higher levels. These works cover a broad spectrum of topics from both novelties in theory and advanced methodologies as well as novel applications in energy, agriculture, medicine, forensics, healthcare, education, tourism, inspection, traffic, and software engineering. Targeted towards academicians, researchers, practitioners, and students in computer science and artificial intelligence, this work is also accessible to individuals from other disciplines interested in the cutting-edge developments of information, intelligence, systems, and applications. An extensive list of bibliographic references at the end of each chapter guides the readers to probe deeper into the application areas of interest to them.