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One of the contemporary challenges to human rights originates in the scientific and technological advances achieved over the last few decades, mainly with respect to computing and the information technologies and to bioethics and biorights. These advances sometimes have features which cause some of the theoretic assumptions about rights and the legal protection structures traditionally used to guarantee them to totter. So, with this line of research we intend to write the theoretic and conceptual material necessary for addressing these risks and to propose measures from a rights-oriented approach so that these scientific achievements also lead to progress in the fulfilment of rights.

**Summary of contents:** New technologies and generational theory of rights; New technologies, the right to privacy and data protection; New technologies and political participation rights: teledemocracy and cybercitizenship; Biotechnology and human rights; Science, new technologies and human rights.