



Digital society and Information

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Digital technology, a societal issue as the main title of the 2012 Annual INRIA Report and Industry 4.0 – How digital technology will affect all sides of your company on the cover of the Usine Nouvelle magazine (sept. 2013): two examples to illustrate how much Digital Society is a major challenge for the players of information sciences and technologies in close connection with the human and social sciences. One can understand that this challenge as well as the definition and the resolution of questions about the digitization and/or the effects on privacy, i.e contacts between individuals, relations of the individual and environment, the socio-economic world and the labor organization, etc. This digitization is based on new methods for modeling, capture, treatment, and communication of informations. The collected data could be massive (big data) and become a raw material which be processed, understood, analyzed, managed, or created in order to develop new services. Numerous players are concerned from scientists and engineers to decision-makers, employees, and even citizens. INSA Lyon and its partners act on the entire chain of treatment processes of data of different types (measurements, voices, images, texts, etc) from their captures up to the analyses of their uses after processing. The Society based on digital technology implies to work on the issues related to hardware and software as well as using multidisciplinary approaches such as the ones developed with the IMU LabEx Intelligence of Urban Worlds (Intelligence des Mondes Urbains. This societal issue is directly linked to the French and European policies related to the energy transition. One has to define the future energy mix which will lead to a

lower environmental footprint and a better quality of life. Problems link to energy production (resources, environmental impact) will be minimized if the energy consumption is limited. Thus, the challenge for Research is to propose solutions allowing to produce clean energy but also to reduce the energy needs. This energy transition requires basic research which is the source of technological developments (e.g. combustion engines, steam engines at the beginning of the industrial era, nuclear energy, hydroelectricity, solar energy, wind energy, green fuel) and economic development. INSA's laboratories contribute to this energy transition through research work to meet those needs.

Environmental issues relate to various scales: products with low environmental footprints and respectful to the users, increasing urbanization, natural and industrial risks, climate change, etc. Education and research activities at INSA Lyon contribute to develop relevant and innovative technical and economical solutions allowing to combine well-being of people and reduced pressures on the environment. Such solutions result from the combination of scientific expertise in multidisciplinary research projects and the development of unique facilities like technological platforms.