Preface of the Workshop Organizers

The First International Workshop on "Processing Information Ethically" (PIE 2019), hosted papers on the conceptual and technological approaches for dealing with the ethical issues that arise in data management. While such demands are already broadly reflected into new codes of ethics and legally binding regulations, we believe that it is our community's precise responsibility to acknowledge the need for the design of responsible information system within a data management perspective and, as a consequence, to provide the technical means to take care of the ethical aspects of all the activities belonging to the so-called *information lifecycle*: source selection, knowledge extraction, data integration, and all the statistical, data mining and machine learning techniques that go under the broad category of *data analysis*. The workshop encouraged multidisciplinary submissions on a broad spectrum of topics, including data provenance, privacy in data collection and analysis, applications of blockchain to privacy, nondiscriminatory knowledge extraction, algorithmic fairness in recommendation systems, classification result interpretability and eXplainable AI, bias in machine learning, ethical data science in sensitive application scenarios and sociological impacts of AI systems. The submitted papers underwent a single-blind review process and were evaluated on the basis of originality, relevance, quality, and technical contribution. We accepted both papers presenting original work and discussion papers containing vision on new research directions. The workshop success, in terms of number of participants (around 30 people from at least 5 different countries) and fervor of the discussion, gave us the chance to ascertain the timeliness and relevance of the ethical issues in our field. The workshop program and pictures of the event are available on-line at `http://pie.dia.uniroma3.it`. We believe that future editions of PIE will keep providing an exciting forum for discussing concerns on the way data is handled, new ideas about how to enable ethics by design, and how this opens a fertile ground for both the data management and the information system research.

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