Overview of NTT DATA Technology Foresight 2017

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Abstract

NTT DATA Technology Foresight is the outlook on technology trends of the near future that is compiled by NTT DATA once a year. The objective is to find the challenges our future society will face at an early stage and serve as a compass to promote the creation of new value. The Feature Articles in this issue introduce NTT DATA Technology Foresight 2017 published in January this year; this article provides an overview as an introduction to it.

Keywords: technology, foresight, trend

1. Introduction

NTT DATA Technology Foresight is the vision of technology trends predicted to occur in the coming three to ten years. It is compiled by NTT DATA once a year. This vision notes the challenges our future society will face at an early stage and serves as a compass to promote the creation of new value.

NTT DATA aims for the betterment of society by depicting a future vision and achieving it together with various customers by foreseeing the impacts future technology will have on society and business.

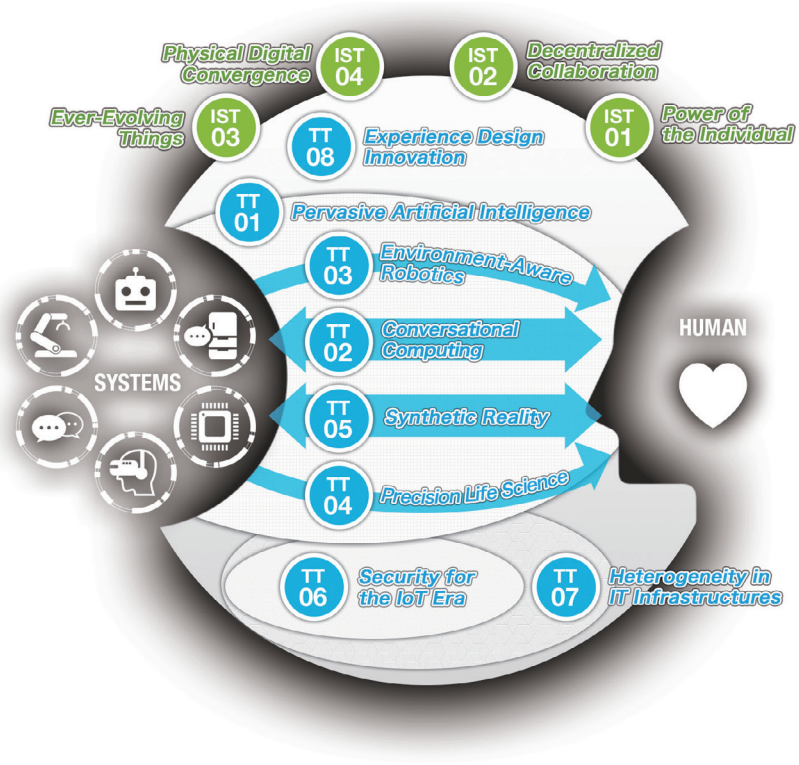
At NTT DATA, we incorporate NTT DATA Technology Foresight into our management strategy, and we are committed to technology development and service creation that anticipate changes in the business environment [1].

2. Information society trends

NTT DATA Technology Foresight 2017 has identified four information society trends (ISTs), as follows (**Fig. 1**). The digital world has become a material part of our daily lives, and we are heading toward a society in which increased value will be provided via the Internet. In addition to the growing influence of individuals (IST01) [2], open participative collaborations (IST02) [3] are revolutionizing workplaces and societies. As information technology (IT) advances, restrictions in the current society will be overcome (IST03) [4], and the structure of society will be transformed (IST04) [5].

3. Technology trends

NTT DATA Technology Foresight 2017 has identified eight technology trends (TTs). First, artificial intelligence (AI) is identified as a central technology that has become increasingly important (TT01) [6]. The next three trends are topics related to AI that are covered within the research: conversational computing (TT02) [7], robotics (TT03) [8], and precision life sciences (TT04) [9]. Additionally, synthetic reality, a technology that is transforming the interface between humans and systems, is discussed (TT05) [10]. Also, cybersecurity for the Internet of Things era (TT06) [11] and the advancement of IT infrastructures (TT07) [12] are featured as important trends. Lastly, experience design innovation has also been added as a technology trend (TT08) [13]. These trends are explained in more detail in the Feature Articles in this issue.



IST: information society trend
TT: technology trend

Fig. 1. NTT DATA Technology Foresight 2017.

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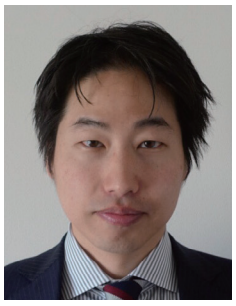

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