The CIAO! Enterprise Engineering Network (CEEN) is a community of academics and practitioners who strive to contribute to the development of the discipline of Enterprise Engineering (EE), and to apply it in practice. The aim is to develop a holistic and general systems theory-based understanding on how to (re)design and run enterprises effectively. The ambition is to develop a consistent and coherent set of theories, models, and associated methods that: enable enterprises to reflect, in a systematic way, on how to realize improvements; and assist them, in practice, in achieving their aspirations.

In doing so, sound empirical and scientific foundations should underlie all efforts and all organizational aspects that are relevant should be considered, while combining already existing knowledge from the scientific fields of information systems, software engineering, management, as well as philosophy, semiotics, and sociology, among others. In other words, the (re)design of an enterprise and the subsequent implementation of changes should be the consequence of rationalized decisions that: take into account the nature and reality of the enterprise and its environment; and respect relevant empirical and scientific principles.

Enterprises are taken to be systems whose reality has a dual nature by being simultaneously, on one hand, centrally and purposefully (re)designed, and, on the other hand, emergent in a distributed way, given the fact that, its main agents, the humans that are the pearls of the organization, act with free will, in a creative and in a responsible (or sometimes not) way. We acknowledge that, in practice, the development of enterprises is not always a purely rational/evidence-based process. As such, we believe the field of EE aims to provide evidence-based insights into the design and evolution of enterprises and the consequences of different choices irrespective of the way decisions are made.

The origin of the scientific foundations of our present body of knowledge is the CIAO! Paradigm (Communication, Information, Action, Organization) as expressed in our Enterprise Engineering Manifesto and the paper: “The Discipline of Enterprise Engineering.” In this paradigm, organization is considered to emerge in human communication, through the intermediate roles of information and action. Based on the CIAO! Paradigm, several theories have been developed, and are still being proposed. They are published as technical reports.

The CEEN welcomes proposals of improvements to our current body of knowledge, as well as the inclusion of compliant and alternative views, always keeping in mind the need to maintain global systemic coherence, consistency, and scientific rigor of the entire EE body of knowledge, as a prerequisite for the consolidation of this new engineering discipline. Yearly events like the Enterprise Engineering Working Conference and associated Doctoral Consortium are organized to promote the presentation of EE research and application in practice, as well as discussions on the contents and current state of our body of theories and methods.
Since 2005 the CEEN has organized the CIAO! Workshop and, since 2008, its proceedings have been published as *Advances in Enterprise Engineering* in the Springer LNBIP series. From 2011 on, this workshop was replaced by the Enterprise Engineering Working Conference (EEWC). This volume contains the proceedings of the 7th EEWC, held in Antwerp, Belgium. There were 40 submissions. Each submission was reviewed by three Program Committee members and the decision was to accept 12 full papers and 4 short papers, which were carefully reviewed and selected for inclusion in this volume.

The EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists as well as practitioners, interested in making EE a reality.

May 2017

David Aveiro
Robert Pergl
Giancarlo Guizzardi
João Paulo Almeida
Rodrigo Magalhães
Hans Lekkerkerk