Preface

Today, the relationships between Asia and the Western world make headlines only
when they concern economic deals, folk-ideological confrontations, or divergent
ideas on how to solve international crises. The cultural and, more specifically,
academical links are frequently disregarded. This book aims at being an argument
against such systematic lack of interest for the results of collaborations between
Western and Eastern intellectuals and academics: what emerges from the juxta-
position of papers of different geo-cultural origins—but dealing with the same
issues—is sometimes a novel approach, which takes advantage of the multifaceted
sensibilities inherited by the scholarly legacies that contributed to the debate. This
volume is a collection of selected papers that were presented at the international
conference Philosophy and Cognitive Science (PCS2013), held at Sun Yat-sen
University, Guangzhou, P.R. China, in November 2013 (chairs Lorenzo Magnani
and Ping Li) and at the International Workshop Visual Abduction or Abductive
Vision? held at KAIST (Korea Advanced Institute of Science and Technology),
Daejeon, South Korea, in October/November 2013 (chair Woosuk Park).

The papers by Athanassios Raftopoulos “Reframing the Problem of Cognitive
Penetrability,” Xiang Chen “The Emergence and Development of Causal
Representations,” Luigi Pastore, Sara Dellantonio, Claudio Mulatti, and Remo Job
“On the Nature and Composition of Abstract (Theoretical) Concepts: The X-
Ception Theory and Methods for Its Assessment,” Selene Arfini and Lorenzo
Magnani “An Eco-Cognitive Model of Ignorance Immunization,” Woosuk Park
“Towards a Caricature Model of Science,” and Lorenzo Magnani “Violence and
Abductive Cognition Epistemology and Ethics Entangled” were presented at
PCS2013. The papers by Lorenzo Magnani “Understanding Visual Abduction. The
Need of the Eco-Cognitive Model,” Cameron Shelley “Biomorphism and Models in
Design,” Jeongmin Lee, “The Correspondence Principle, Formal Analogy, and
Scientific Rationality,” Jun-Young Oh, YooShin Kim, Chun-Hwey Kim, Byeong-
Mee Min, Yeon-A Son “Understanding Galileo’s Inquiries about the Law of
Inertia,” Athanassios Raftopoulos “Abductive Inference in Late Vision,” and
Woosuk Park “From Visual Abduction to Abductive Vision” were presented at the
KAIST Workshop on abduction.

The presentations given at the Guangzhou and Daejeon meetings addressed various recent topics at the crossroad of philosophy and cognitive science, especially taking advantage of both Western and Eastern research. The selected papers contained in the proceedings mainly focus on the following areas: abductive cognition, visualization in science, the cognitive structure of scientific theories, the nature and functions of models, scientific representation, mathematical representation in science, model-based reasoning, analogical reasoning, moral cognition, cognitive niches, and evolution. The various contributions of the book are written by interdisciplinary researchers who are active in the area of philosophy and/or cognitive science.

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