

Preface

This book evolved from parts of the first author's dissertation and aims to give an overview of state-of-the-art approaches to motion estimation and motion correction in positron emission tomography (PET) – and even going one step beyond. Besides these central topics, we provide some general information for all related topics, such as the principle of PET or gating. However, in order not to lose focus we do not go into too much details. Interested readers are referred to further literature regarding these topics.

This book is aimed at all those working in the field of (thoracic) PET imaging. While the book is rather written from a methodological perspective, it also provides a general overview over the topic of motion estimation and motion correction. Hence, also more practically oriented people will benefit from reading it, while skipping the theoretical parts.

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