## Step by Step

# AGISOFT – METASHAPE

**Prof. Dr. Murat YAKAR**
**Assoc. Prof. Dr. Ali ULVİ**
**Res. Assistant. Abdurahman Yasin YİĞİT**
**Msc. Seda Nur Gamze HAMAL**

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Akademi Mah. Yeni İstanbul Cad.
No: 22 Selçuklu / KONYA
Tel: 0332 241 30 59

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# PREFACE

The number of changing and developing sensor systems and the amount of software in which the data obtained through these systems are processed and interpreted is increasing day by day with the development of technology. Agisoft Meteshape is an advanced 3D modeling software based on image data processing developed by Agisoft company. Software: It can generate Digital Surface Model (DSM), Digital Elevation Model (DEM), Solid Model, and 3D model from multiple images, which can process any picture taken by a non-metric camera, from small sculptures to big data from an Unmanned Aerial Vehicle (UAV). Mapping has a wide range of applications in many fields, including preservation of cultural heritage, industry, archaeology, architecture, environment, medicine, civil, and military.

Within the scope of this book, the "Agisoft Meteshape" software, which is frequently used by engineering branches working on earth sciences, is explained in detail according to its different usage areas. The book will help those who want to learn the "Agisoft Meteshape" program and seek resources in other technical fields. Today, it is not possible to implement a project on the land without a map in rural and urban areas. It is used in many important areas such as maps, city plans, construction works, rural and urban area regulations, infrastructure, country defense, and many more. Mapping is a discipline that uses technology and in parallel with this, the need for fast data processing is growing day by day. It has become a necessity for surveyors to use computer programs. Especially with technology, the ways of accessing data and making data meaningful have also changed. In this sense, map production, especially from photographs taken by Unmanned Aerial Vehicles, has recently been developed and started to be used as a base for different disciplines.

The book has been prepared by combining the experiences of our professional life. However, it is possible that there are shortcomings. It is thought that it will be developed further in the process. To Mersin University for their software support; we would like to thank the company "Agisoft" and those who contributed. We hope that the book will be useful to our profession, users, and students.

**Murat YAKAR - Ali ULVİ**
**Abdurahman Yasin YİĞİT**
**Seda Nur Gamze HAMAL**
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