

Preface

In this book are published the papers of the XI International Conference on the Mechanical and Physical Behaviour of Materials under Dynamic Loading – DYMAT2015 held in Lugano (Switzerland) September 7–11, 2015. After 30 years from the first edition for the first time this important conference arrives in Switzerland.

In continuity with previous DYMAT conferences [Paris (1985), Ajaccio (1988), Strasbourg (1991), Oxford (1994), Toledo (1997), Krakow (2000), Porto (2003), Dijon (2006), Bruxelles (2009), Freiburg (2012)], this book contains 186 scientific papers from 32 countries from 5 continents that collectively provide an excellent snapshot of the state-of-the-arts in the field of the mechanical properties of materials at high rates of strain and highlights some remarkable modern developments and industrial applications. This volume covers five topics such as Experimental Techniques (80 papers), Microstructural Effects (27 papers), Biomechanics (6 papers), Modelling and Numerical simulation (62 papers) and Industrial Application (11 papers).

The conference was organized by the DynaMat Laboratory of the University of Applied Sciences and Arts of Southern Switzerland (SUPSI) engaged in research in these particular areas since 2006.

I would like to take this opportunity to thank the authors, all reviewers for their generous efforts.

A sincere thanks to all participants, sponsors and institutions, for their great support towards a successful DYMAT2015.

Finally, my acknowledgement to DYMAT Governing Board and International Advisory Committee members for their enthusiastic support in all phases of the DYMAT2015 organization, and for the very important management help.

Last but not least I feel indebted to my family for all the time dedicated to the organization of this event.

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