

Collana convegni **17**

Evolutions Equations and Materials with Memory

Proceedings, Rome 2010

edited by

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Preface

This volume contains thirteen contributions to the international conference *Evolution Equations and Materials with Memory* held at the Cloister Hall of Facoltà di Ingegneria and Facoltà di Ingegneria dell'Informazione, SAPIENZA Università di Roma, Rome, Italy, July 12 – 14, 2010 under the auspices of SAPIENZA Università di Roma.

The purpose of the meeting was to bring together internationally well known researchers in the study of *smart materials* and materials with memory and, more generally, engaged in investigating mathematical problems which arise in modeling such materials. Furthermore, other problems originating from different applicative areas, and, in particular, evolution problems are comprised when analogous mathematical methods are required to investigate them. The Conferences Program included also two Round Tables to promote discussion and to exchange ideas and projects among all the participants. The Round Table, on Monday, chaired by Paolo Podio-Guidugli, Università di Roma *Tor Vergata*, was devoted to applications of the study of materials with memory. The Round Table on Tuesday, chaired by Alfredo Lorenzi, Università di Milano, was dedicated to analytical problems and new theoretical developments that are inspired by the applications and, in particular, focussed on those ones which are connected to the study of materials with memory.

The Editors wish also to thank Fabrizio Vestroni, Dean of the *Facoltà di Ingegneria Civile ed Industriale*, Fabrizio Palma, on behalf of the Dean of the *Facoltà di Ingegneria dell'Informazione* Paolo Lampariello, Luigi Palumbo, Chairman of the *Dipartimento di Scienze di Base e Applicate per l'Ingegneria* and Nicola Fusco on behalf of INdAM (Istituto Nazionale di Alta Matematica) who introduced the Conference's works.

The editors are very grateful to all the Invited Speakers whose contribution made possible the present Proceedings Volume.

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The Editors

Daniele Andreucci,
Sandra Carillo,
Mauro Fabrizio,
Paola Loreti,
Daniela Sforza.

Rome, July 2011

Last but not least Daniele Andreucci, Mauro Fabrizio, Paola Loreti and Daniela Sforza wish to thank Sandra Carillo for her special efforts in handling this Volume.

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