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IATS '09

5TH

INTERNATIONAL
ADVANCED TECHNOLOGIES SYMPOSIUM

MAY 13-15, 2009

SPONSORED BY



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Proceedings of 5th International Advanced Technologies Symposium (IATS'09) is sponsored by TUBITAK (The Scientific and Technological Research Council of Turkey), in cooperation with the Karabük University, held May 13-15, 2009 at Karabük University, Technical Education Faculty, Karabük, Turkey.

Edited by

Mustafa ACARER
Halil İbrahim DEMİRCİ
Cevdet GÖLOĞLU

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ISBN 978-605-60681-0-2

Karabük University, Karabük, Turkey
<http://iats09.karabuk.edu.tr/>
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5th International Advanced Technologies Symposium IATS'09, May 13-15, 2009, Karabük, Turkey



PREFACE

The 5th International Advanced Technologies Symposium (IATS'09) has organized by Karabük University (TR) with the co-organizers of Epoka University (AL), Fatih University (TR), International University of Sarajevo (BA), Istanbul Arel University (TR), and Qafqaz University (AZ). It has been considered to be a forum for the academicians, practitioners, and the experts to discuss technological implementations in variety of fields.

The most important distinguishing feature of the information age is that science and technology become a direct productive power. Although origin of technology is shaped by science, developments on technology become pioneer to the most of scientific studies. At this era, which science and technology intervene one another, the both are significant players from the economical growth and social prosperity point of views. Producing high valued products backed by scientific studies and advanced technologies need the industry representatives and academicians work together an intensive manner at the meetings such as congress, colloquium, symposium etc. where the original scientific studies and technological novelties are explained and the participants exchange information vice versa.

As a platform where R&D studies are presented, shared, and discussed, Advanced Technologies Symposiums were previously organized in:

Istanbul Technical University, at 8-10 March 1995, as first,
Marmara University, at 8-10 March 1999, as second,
Gazi University, at 18-20 August 2003, as third,
Selcuk University, at 28-30 September 2005, as fourth.

5th International Advanced Technologies Symposium (IATS'09) will be a successful event with 449 papers submitted. The papers from 8 countries are contributed. The papers cover a wide range of different fields such as Computers, Electric and Electronics, Metallurgy and Materials, Manufacturing, Energy and Aeronautics-Astronautics, Automotive, Civil and Construction, and others. The papers reflect the growing interest in advanced technologies and their implementations in this common platform.

We would like to express our sincere thanks to those people who spend great effort to make this event take place. We sent our special thanks to our Rector Prof. Dr. Burhanettin UYSAL and our vice rector Prof. Dr. İbrahim KADI for their invaluable support. We would also like to thank to members of Honour Committee, Scientific Committee, Organizing Committee, Executive Committee, and Secretarial Assistances for their great effort to make the event successful. Last but not least, we would like to thank to academicians, practitioners, and the experts who were joined to IATS'09 in order to share their knowledge.

With the wishes to see you at 6th International Advanced Technologies Symposium.

Editors

Mustafa ACARER
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May 2009

ACKNOWLEDGEMENTS

We wish to thank the following for their contribution to the success of this conference:



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IATS'09, May 13-15, 2009, Karabük, Turkey**



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