Lecture Notes in Control and Information Sciences

IFIP 149

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Optimal Control of Partial Differential Equations

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Preface

These are the Proceedings of the IFIP WG7.2 Working Conference on Optimal Control
of Partial Differential Equations held at the Monastery of Irsee in the Federal
Republic of Germany from April 9 to 12, 1990. This conference was organized by
K.-H. Hoffmann (University of Augsburg) and W. Krabs (Technical University of
Darmstadt) under the auspices of the Technical Committee 7 of the International
Federation for Information Processing (IFIP). It was financially supported by the
Deutsche Forschungsgemeinschaft whose support is gratefully acknowledged.

Out of 31 participants who attended the conference 19 presented lectures 17 of
which focussing on recent advances in control theory connected with partial dif-
ferential equations. Within a broad spectrum of topics the problem of exact con-
trollability played a central role and also shape control was given some special
attention. Nonlinear problems were mainly treated under the aspect of optimality.
Less represented were identification problems and also numerical aspects were re-
garded less than at other conferences of this type.

The organizers are grateful to all participants who made contributions to its success
either by lecturing and publishing in the proceedings or by actively taking part in
the discussions. The fruitful scientific and the agreeable social atmosphere that
could be observed throughout the conference was certainly also due to the pleasing
environment of the Monastery of Irsee and its excellent facilities for the organi-
sation of conferences and the accomodation of the participants.

Last not least the organizers owe gratitude to all who assisted them in all the
details that have to be considered in organizing such a conference.

(K.-H. Hoffmann)

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