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Edited by M. Thoma and A. Wyner



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Optimal Control of Partial Differential Equations

Proceedings of the IFIP WG 7.2 International Conference
Irsee, April 9-12, 1990



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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 differential equations. Within a broad spectrum of topics the problem of exact controllability 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 regarded 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 organization 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)

(W. Krabs)

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