

Séminaires IRIA

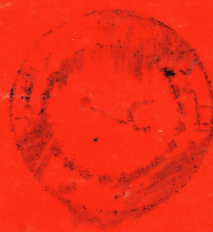
ANALYSE ET CONTRÔLE DE SYSTÈMES

1976

IRIA

INSTITUT DE RECHERCHE D'INFORMATIQUE ET D'AUTOMATIQUE
DOMAINE DE VOLUCEAU - ROCQUENCOURT - B.P. 105 - 78150 LE CHESNAY - TEL.: 954 90 20

BIBLIOTHEQUE
DU
CERIST

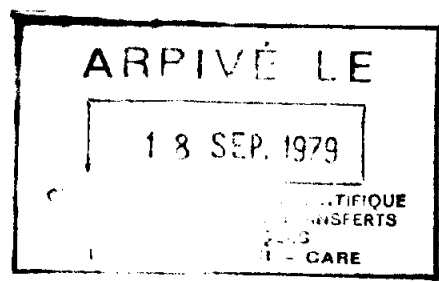


(710)

ANALYSE ET CONTRÔLE DE SYSTÈMES

TEXTES DES EXPOSÉS DU SÉMINAIRE ORGANISÉ PAR
L'INSTITUT DE RECHERCHE D'INFORMATIQUE ET D'AUTOMATIQUE
(IRIA)
ROCQUENCOURT

1976



INSTITUT DE RECHERCHE D'INFORMATIQUE ET D'AUTOMATIQUE
DOMAINE DE VOLUCEAU - ROCQUENCOURT - B. P. 105 - 78150 LE CHESNAY - TÉL.: 954 90 20

BIBLIOTHEQUE DU CERIST

Édité par l'Institut de Recherche d'Informatique et d'Automatique

Dépôt légal 772/310377/300

I.S.B.N. 2 - 7261 - 0126 - 7

C179

TABLE DES MATIÈRES

Approximation methods for optimal control problems with delay-differential systems.
H. T. BANKS, Brown University & University of Colorado, U.S.A. 5

Numerical solution of a Stefan problem by a technique of alternating phase truncation.
A. E. BERGER, M. CIMENT, J. C. W. ROGERS, Naval Surface Weapons Center, Silver Spring, U.S.A. 21

Solution of a diffusion consumption variational inequality problem by a fixed domain method.
A. E. BERGER, M. CIMENT, J. C. W. ROGERS, Naval Surface Weapons Center, Silver Spring, U.S.A. 35

An error estimate for the truncation method for the solution of a parabolic variational inequality.
A. E. BERGER, Naval Surface Weapons Center, Silver Spring, and, R. S. FALK, Rutgers University, U.S.A. 43

Coerciveness and singular perturbations.
L. S. FRANK, University of Jerusalem, Israel 49

Perturbations singulières et différences finies.
L. S. FRANK, University of Jerusalem, Israel 57

State constrained convex control problems. Part I: Duality and regularity.
W. W. HAGER, University of South Florida, U.S.A. 71

State constrained convex control problems. Part II: Approximation.
W. W. HAGER, University of South Florida, U.S.A. 81

Convergence and stability properties of the discrete Riccati operator equation.
W. W. HAGER, University of South Florida, U.S.A. 95

Probabilistic representation of boundary layer expansions.
C. J. HOLLAND, Purdue University, U.S.A. 113

Boundary observability and measurements of bioelectric phenomena.
T. L. JOHNSON, M. I. T., Cambridge, U.S.A. 135

Boundary control of first-order hyperbolic systems.
T. L. JOHNSON, M. I. T., Cambridge, U.S.A. 153

System-theoretic properties of viscoelastic media.
T. L. JOHNSON, M. I. T., Cambridge, U.S.A. 163

Propagation of singularities for hyperbolic partial differential equations.
H.-O. KREISS, Université d'Uppsala, Suède 173

Dynamic equations in descriptor form.
D. G. LUENBERGER, Stanford University, U.S.A. 185

A discrete queueing problem arising in packet switching.
B. GOPINATH & J. A. MORRISON, Bell Laboratories, Murray Hill, U.S.A. 201

Controllability and stabilizability of linear distributed parameter systems.
D. L. RUSSELL, University of Wisconsin-Madison, U.S.A. 211

Discrete plasticity and the complementarity problem.
G. STRANG, M. I. T., Cambridge, U.S.A. 259

BIBLIOTHEQUE DU CERIST

A dynamic production model for a reproducible resource: cattle production and supply functions. <i>C. S. TAPIERO, University of Jerusalem, Israel & M. WILKINSON, Columbia University, U. S. A.</i>	279
Iterative solution of large sparse linear systems. <i>H. A. van der VORST, University of Utrecht, The Netherlands</i>	297
Multidimensional filtering problems. <i>E. WONG, University of California, U.S.A.</i>	303