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Automatic Control in Space 1982-P. Th. L. M. Van Woerkom 2014-05-23 Automatic Control in Space 1982 covers the proceedings of the Ninth IFAC/ESA Symposium. Comprised of 62 chapters, this book covers issues relevant in aerospace, such as engineering, hardware, operations, and theories. This book discusses several topics that concern space explorations, such as L-SAT attitude and orbit control system; methods of dynamic flight control; methods of satellite attitude control using a bias-momentum; and ion sensor signal fluctuations. This text will be of great interest to engineers, researchers, and professionals whose work is in line with aerospace.

Automatic Control in Space 1985-J. P. Chretien 2014-06-28 Presents an authoritative overview of the recent developments and technical advances in the applications of automated control to space technology. Topics covered include: geostationary satellites, scientific satellites, flexible systems, low earth orbit satellites, orbit and trajectory control, component technology, platforms, rendez-vous and docking (RVD) and manipulators. Contains 39 research and review papers.

Technology for Large Space Systems- 1984

Technology for Large Space Systems- 1983

Skill Based Automated Manufacturing-P. Brödner 2014-05-23 This volume investigates the relationship between man and the computer, and how far they are integrated in the modern industrial world. The effects and changes computers have brought about are discussed, including a look at job structures, the function of CAD training and the design and implementation of control systems in engineering industries to give a comprehensive overview of the computer revolution and its future in society.

Distributed Computer Control Systems 1982-International Federation of Automatic Control 1983 Presents & discusses advances in theory, applications & technologies for distributed computer control systems.

Automatic Control in Petroleum, Petrochemical, and Desalination Industries-Samir Kotob 1986 An up-to-date account of current practices, methods and techniques in the use of modern automatic control systems in petroleum and water related industries. Subject areas covered include modelling, estimation and identification; simulation; optimization; process control and instrumentation methods; modernization of petroleum and petrochemical complexes; system performance and reliability analysis, with special emphasis given to methodological development and practical applications such as adaptive and hierarchical control systems. Contains approximately 32 papers.

Model Based Process Control-T.J. McAvoy 2014-06-28 Presented at this workshop were mathematical models upon which process control is based and the practical applications of this method of control within industry; case studies include examples from the paper and pulp industry, materials industry and the chemical industry, among others. From these presentations emerged a need for further research and development into process control. Containing 19 papers these Proceedings will be a valuable reference work for all those involved in the designing of continuous production processes for industry and for the end user involved in the practical application of process control within their manufacturing process.

Control of Distributed Parameter Systems, 1982-Jean-Pierre Babary 1983 Covers: optimal control, identification & estimation, stabilization, flexible structures, stabilizability & controllability, methods & techniques of control, control of thermal processes, optimal design, stochastic processes, energy systems, & modelling.

Artificial Intelligence in Real-Time Control-M. G. Rodd 2014-05-23 Artificial Intelligence in Real-Time Control documents the proceedings of the IFAC Workshop held in Clyne Castle, Swansea, UK, 21-23 September 1988. It includes two keynote addresses that discussed architectural issues for expert systems in real-time control; the problem of representing knowledge and reasoning; and the problems encountered in obtaining such information. Other papers contained in these proceedings are representative of the major research bodies active throughout the world in the application of AI techniques in real-time control, although it was inevitable that a Europe-based conference would highlight the work of the European groups. While AI is clearly still in the process of establishing itself, it is undoubtedly a major new area of engineering endeavor. Practical experience is still relatively limited, and many of the results discussed at this event were obtained through simulation or, in a few cases, from reduced practical experience. The importance, though, lies in the fact that many countries are pouring extensive resources into the attempt to control difficult processes by using AI techniques. The wide cross section of interest was demonstrated by the fact that many diverse industries were represented at the workshop—ranging from power-systems control to telecommunications, and into the steel industry.

Real Time Programming 1988-A. Crespo 2014-05-23 Digital computers are now used routinely in on-line control systems. As applications become more complex and costs of developing software rise, the need for good software tools becomes vital. This volume presents 14 papers on the most recent developments within real-time programming - languages for real-time programming, software development tools and the application of real-time systems within industry.

The Cumulative Book Index- 1983 A world list of books in the English language.

Information Control Problems in Manufacturing Technology 1982-David E. Hardt 1983 Discusses: government activities, control software, manufacturing process control, manufacturing processes & technologies, planning & control, applications, robotics & manufacturing systems.

Cumulative Book Index- 1983

Automatic Control in Aerospace- 1993

Advanced Information Processing in Automatic Control (AIPAC'89)-R. Husson 1990-07-23 Information Processing is a key area of research and development and the symposium presented state-of-the-art reports on some of the areas which are of relevance in automatic control: fault diagnosis and system reliability. Papers also covered the role of expert systems and other knowledge based systems, which are needed, to cope with the vast quantities of data generated by large scale systems. This volume should be considered essential reading for anyone involved in this rapidly developing area.

Identification and System Parameter Estimation 1982-George A. Bekey 1983 Contains over 300 papers providing a structural & unified presentation of the latest research into both the theory & wide-ranging applications of system identification. Includes chapters on pattern recognition & adaptive control.

International Aerospace Abstracts- 1983

Automatic Control-International Federation of Automatic Control. World Congress 1988 The 54 papers in this volume include 5 survey papers, and a case study. The topics covered are the analysis, modelling simulation, measurement filtering, control, and design of automation systems for aerospace systems. Control of transportation systems, and supervision diagnosis together with the application of artificial intelligence for technical systems.

American Book Publishing Record- 1984-04

NASA SP.- 1962

Directory of Published Proceedings- 1985

Digital Computer Applications to Process Control- 1986

Books in Print-Bowker Editorial Staff 1994

Decisional Structures in Automated Manufacturing-A. Villa 1990-06-22 The Workshop brought together researchers interested in the field of production management in automated manufacturing, who provided papers from different standpoints of industrial automation, manufacturing and information technologies and system management methodologies. These contributions cover virtually all the principal aspects and problems relevant to production management ranging from production control in flexible manufacturing systems (FMS) and robotized cells, to production scheduling and process planning. In addition, methods and tools for implementing procedures to solve these problems and for integrating such procedures into a hierarchical architecture are also included.

Automation in Mining, Mineral, and Metal Processing 1989-V. Köppel 1990 Hardbound. Changing market conditions leading to increased competitiveness, higher quality control, reduced costs and greater capacity mean that the development and automation in mining and in mineral and metal processing is facing challenging times. The Symposium reflects the growing need amongst mining and related industries to improve and develop their automated systems to tackle those new challenges. The papers provide essential information covering areas such as mining, electric furnaces, steel, blast furnaces, rolling and computer applications.

Real Time Programming- 1985

Automatic Control 1990-Bozzano G Luisa 1991-07-11 This volume provides a general overview on the state-of-the-art and future developments in automation and control. The application of systems and control in all areas is covered, from the social and cultural effects of control, to control in mineral and metal processing. This volume will be an invaluable source of information to all those interested in the areas of automation and control.

Control Science and Technology for Development (CSTD'85)-Jiachi Yang 1986 Provides a detailed analysis of the recent developments and practical applications of automatic control. Of particular interest are control problems related to power systems, water supply systems, pollution, industrial processes, energy economics and production management systems. Contains over 80 papers.

Control Applications of Nonlinear Programming and Optimization 1989-International Federation of Automatic Control 1990 Hardbound. These Proceedings provide valuable information on the exchange of ideas between scientists who apply nonlinear programming and optimization to real world control problems and those who develop new methods, algorithms and software. The papers deal with windshear problems, optimization of aircraft and spacecraft trajectories, optimal control for robots, the optimization of urban traffic control, general mechanical systems, multilevel inventory systems and robust control.

Modelling and Control of Biotechnical Processes-Aarne Halme 1983 Covers: measurement techniques & sensors, modelling of bioreactors & related problems, modelling & control of biological waste water treatment processes, optimization of production processes, & application of estimation & identification techniques, computer & microcomputer applications, control design & adaptive control.

Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes- 1990

Power Systems and Power Plant Control, 1989-Uhi Ahn 1990 The control of power systems and power plants is a subject of growing interest which continues to sustain a high level of research, development and application in many diverse yet complementary areas, such as maintaining a high quality but economical service and coping with environmental constraints. The papers included within this volume provide the most up to date developments in this field of research.

Information Control Problems in Manufacturing Technology 1989-E.A. Puente 1990-09-28 The Symposium presented and discussed the latest research on new theories and advanced applications of automatic systems, which are developed for manufacturing technology or are applicable to advanced manufacturing systems. The topics included computer integrated manufacturing, simulation and the increasingly important areas of artificial intelligence and expert systems, and applied them to the broad spectrum of problems that the modern manufacturing engineer is likely to encounter in the design and application of increasingly complex automatic systems.

Control of Distributed Parameter Systems 1989-M. Amouroux 1990 Hardbound. This volume presents state-of-the-art reports on the theory, and current and future applications of control of distributed parameter systems. The papers cover the progress not only in traditional methodology and pure research in control theory, but also the rapid growth of its importance for different applications, computer science and engineering.

Artificial Intelligence in Real-time Control 1989-M. G. Rodd 1990 Papers presented at the workshop are representative of the state-of-the-art of artificial intelligence in real-time control. The issues covered included the use of AI methods in the design, implementation, testing, maintenance and operation of real-time control systems. While the focus was on the fundamental aspects of the methodologies and technologies, there were some applications papers which helped to put emerging theories into perspective. The four main subjects were architectural issues; knowledge - acquisition and learning; techniques; and scheduling, monitoring and management.

Safety of Computer Control Systems, 1990 (SAFECOMP '90)-B. K. Daniels 1990 The market for safe, secure and reliable computer systems is expanding continuously and these Proceedings provide an opportunity to review the growth during the last decade and identify skills and technologies required for continued development in the area. The papers cover the experiences gained from specifying, creating, operating, and licensing computers in safety, security and reliability related applications. There are reviews of guidelines and industrial applications, with a section covering methods and tools used in designing, documenting, analysing, testing and assessing systems dependent on the SAFECOMP factors.

Instrumentation and Automation in the Paper, Rubber, Plastics, Polymerisation Industries-A. van Cauwenberghe 1984

Books in Series- 1985

Real Time Programming 1985-Gordon M. Bull 1986 Examines the entire field of real-time programming, with emphasis on the most recent developments in industrial control and the design of process control systems. The topics covered include programming of statistical quality control applications, graphical languages for real-time programming, programming of personal computers and work stations for real-time applications. Contains 17 papers.