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Automation In Mining Mineral And Metal Processing 1998

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by*

KENNEDI GAIGE

Preprints of the 9th IFAC Symposium, Cologne, Germany, 1-3 September 1998 Pergamon

Contains 73 papers which discuss the latest developments in the important field of control applications, equipment and theory. Emphasis has been placed on applications, large distributed digital control systems, measurement systems, optimality, adaptivity, reliability and safety aspects. Major topics covered include: thermal processes and energy control; control in cement making; modelling and control of grinding mills; systems and equipment; steelmaking and continuous casting; theory; control and modelling in extraction metallurgy; on-line control of concentration and separation processes; measurement and analysis in mining and mineral processes; automation in coal mining; hot and cold rolling; and automation in mining.

AUTOMATION IN MINING, MINERAL AND METAL PROCESSING

Pergamon

This volume discusses the developments and automation in mining and in mineral and metal processing industries. Topics covered include the use of robot controlled tunnelling machines; mineral separation and processing techniques; grinding systems, and the design of plants to give an overview of these industries today.

IFAC Symposium on Automation in Mining, Mineral and Metal Processing Pergamon

Hardbound. The purpose of the Symposium was to exchange ideas and approaches relating to the latest development of factory automation in mining, mineral and metal processing.

This volume begins with the four plenary papers, concerning the automation of mineral processes, automation in iron and steel industries, sensor technology and artificial intelligence technique. 38 technical papers are included, covering mining and mineral automation, blast furnace automation, steel making automation, MIS & CIMS in the steel industry and measuring technique.

AUTOMATION IN MINING, MINERAL AND METAL PROCESSING

Automation in Mining, Mineral and Metal Processing 2004

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September 1976Automation in mining, mineral and metal processing

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symposiumAutomation in Mining, Mineral and Metal ProcessingProceedings of The 3Rd Ifac Symposium, Montreal, Canada 18-20 August 1980Elsevier

Special Section on Automation in Mining, Mineral and Metal Processing Pergamon

This Proceedings contains the papers presented at the 10th IFAC Symposium on Automation in Mining, Mineral and Metal Processing (MMM 2001), held in Tokyo, Japan, on 4-6 September 2001. This long-running symposium series has established a reputation for providing high-quality and authoritative surveys of the state of research in this economically and politically important application area. The latest conference lives up to this reputation, and this proceedings provides a truly international snapshot of quality research into several areas of

mining, mineral and metal processing (MMM) technologies. Historically, research into MMM has set the direction for other areas of automation, and this excellent collection of papers, totalling over 70, is well placed to continue in this tradition.

Automation in Mining, Mineral, and Metal Processing, 1983 Elsevier

MMM'98 was a meeting of scientists and practitioners from all over the world who presented the state-of-the-art in automating the processes of the basic industries and discussed current development trends in this field. 50 full papers and 12 poster shows were presented out of 90 draft papers; 18 of these 62 contributions were dedicated to problems of mining and minerals processing, 34 to metals processing and 10 to general problems of distributed automation systems. These presentations were accompanied by 3 plenary papers which gave surveys on current developments of common interest for the MMM control community and by a panel discussion on the significance of what is called today Computational Intelligence (knowledge based systems, fuzzy logic and control, artificial neural networks, genetic algorithms and programming) in comparison with conventional control methods. The main topics of the contributions were on one hand the application and applicability of modern automation methods and software-tools. On the other hand many papers gave practical experiences with implementations of automation systems in the basic industries.

Automation in Mining, Mineral, and Metal Processing 1986 Elsevier

Automation in Mining, Mineral and Metal Processing covers the proceedings of the Third International Federation of

Automatic Control (IFAC) symposium. The book discusses techniques and methods of automatic control and of system analysis for use in mining, mineral, and metal processing industries. Comprised of 69 chapters, the text presents theories, applications, operations, and maintenance of automation systems in an industrial environment. The topics covered are also relevant in solving various issues in the mining, mineral, and metal processing industries, such as pollution, safety, energy efficiency, human resource, and materials through the implementation of an unmanned system. This book will be of great interest to professionals especially those who are contemplating the use of automated system.

Automation in Mining, Mineral and Metal Processing : ... IFAC Symposium, 6th, 4-8 September 1989, Buenos Aires, Argentina
Pergamon Press

When the South African Council for Automation and Computation (SACAC) first submitted a bid to host the 8th IFAC Symposium on Automation in Mining, Mineral and Metal Processing in Beijing, many obstacles were evident. Most of these were embodied in negative international attitudes to the government of the Republic of South Africa and the apartheid society it supported. However, it is to the credit of the IFAC working group on automation in mining, mineral and metal processing that their application at that time was considered favourably, although not formally accepted. It took a visit to the 10th IFAC World Congress in Sydney and a visible shift in the political scenario to persuade the relevant IFAC committees that South Africa would be suitable for the symposium. A national organising

committee was formed under the leadership of SACAC and the South African Institute of Measurement and Control (SAIMC), the South African Institute of Electrical Engineers (SAIEE) and the South African Institute for Mining and Metallurgy (SAIMM). The combined team set about organising the first major IFAC international symposium in South Africa since 1976. The theme for the Symposium was based on the need to promote technology transfer and papers which addressed this issue were favoured. With over 50% of the authors from other countries, a significant opportunity for technology transfer into South Africa was created, which is in keeping with the overall theme.

A Proceedings Volume from the 8th IFAC Symposium, Sun City, South Africa, 29-31 August 1995 Pergamon Press

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.

Pergamon

6th Symposium on Automation in Mining, Mineral and Metal Processing

Automation in Mining, Mineral, and Metal Processing 1995 (MMM'95)

Automation in Mining, Mineral, and Metal Processing, 1992

AUTOMATION IN MINING, MINERAL AND METAL PROCESSING 2004

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