

CONTENTS

Process Control and Automation

- 2 General Review of 41st Pulp and Paper Process Control Symposium
.....Process Control and Automation Committee, JAPAN TAPPI
 - 14 The Drones are Attracted, The Visual Vision That Completes 3 Dimensions
.....Akira Tsuda
 - 17 Development of Valmet Industrial Internet
.....Hisanori Bando, Jari Almi and Johanna Newcomb
 - 22 Fuji Electric's IoT Solutions to Create New Value.....Yasuo Inamura
 - 29 Industrial Internet for the Power Industry.....Yasutaka Muta
 - 35 Predicting Equipment Failure Using IoT and AI
.....Shuji Kuromizu, Shuji Senda and Hidekazu Miyagawa
 - 41 Strengthen Factory Network Security Applying SDN/OpenFlow Technology
.....Kazuyoshi Uchiyama
 - 46 Introduction of IoT device "e-Musen Junkai".....Kaito Ikuta
 - 52 Replacement Project of PM 2 QCS.....Masato Adachi
-

Topics & Information

- 56 New Approach of Process Optimization by Analysis of Plant Big Data
—Cooperative Optimization Control of Stock Preparation and Paper Making—
.....Takashi Sasaki
 - 62 Papermaking. NextLevel
—How Voith is Making Paper Manufacturing Better and More Efficient Through
Digitization—.....Ryozo Shimizu
 - 66 Andritz Optimization of Process Performance (OPP).....Kazunori Omori
 - 70 IIoT Evolution to Direct Sensing of Solenoid Valve.....Yukinobu Kawabe
-

Research Report(Original Paper)

- 73 Extrusion Molding of Cellulosic Fibers Using Cellulose Derivative
.....Kaito Kawamura, Takatsugu Abera and Hiroshi Nonaka
-

- 03 Committee report
- 86 Papyrus

- 93 Industry News (Domestic and International)
 - 98 List of Titles in Foreign Journals Received by JAPAN TAPPI
 - 99 List of Patents issued and Laid-open Publication
 - 109 Price list of Domestic Logs and Wood Chips by District
 - 110 Other Monthly Statistics
 - 112 News from the Association
-