

Special Section : Science and Technology Forecast for 2030

Editorial Preface	Koji YAMAMOTO	1
1. Technology Dream 2030	Leiji MATSUMOTO and Kohei SHIOMOTO	2
2. Mutual Trust Communication by Ambient Identifications in Broadband Network Convergences	Hideyoshi TOMINAGA	7
3. Image Production in 2030	Takayuki OGUCHI	11
4. Japan in 2030	Yoshio UTSUMI	14
5. Science and Technology for Earth and Human Being	Kaoru ARAKAWA	18
6. Frankly Talk about the Vision of the Future		
6-1 Future Techniques for Earthquake Prediction	Akitoshi ITAI	21
6-2 A View Point of the Interface between Different Kinds	Motomi ABE	22
6-3 Technological Advancements and a Flatter World	Koji YAMAMOTO	24
6-4 Intelligent TV	Masaki TAKAHASHI	25

Technical Survey

Integrated CMOS-MEMS Technology Hiroki MORIMURA, Shinichiro MUTOH, Hiromu ISHII, and Katsuyuki MACHIDA		26
Information Security Technologies for SCADA Systems	Yoshizumi SERIZAWA and Mai KIUCHI	31
Precautions and Strategies to Defend Ourselves from Getting Involved in Patent Infringement Suits in the U. S. Toru MATSUMOTO and Miwa TANI		37
CMOS Device Technologies in Post-scaling Era	Shinichi TAKAGI	43
High Quality Solution-processed Thin Films of Pentacene for Thin Film Transistors Takashi MINAKATA		49
Study on Power Supply Noise in LSIs	Makoto NAGATA	55
The Neural Activity on Infants' Face Recognition Emi NAKATO, Megumi KOBAYASHI, and Masami K. YAMAGUCHI		61

Tutorial

Trends of the Latest "Scenario to Anime" Technologies towards the Video CGM Age Terumasa AOKI		67
--	--	----

News Analysis

The World's First AlGaN Laser Diode to Emit 342nm Ultraviolet Light		70
---	--	----