

## Table of Contents

Concatenated Turbo/LDPC codes for deep space communications: performance and implementation <i>Carlo Condo</i>	1
Capacity Saving Analysis of Lp-problem based Allocation with Packet Loss and Power Metrics in GEO-Satellite Communications Channels <i>Igor Bisio, Stefano Delucchi, Fabio Lavagetto, and Mario Marchese</i>	7
New Optical Communication Capabilities Using Nanosatellites <i>Francesco Sansone, Lorenzo Olivieri, and Alessandro Francesconi</i>	13
Toward Self-Reconfiguration of Switched Ethernet Architectures in the Next Generation of Space Launchers <i>Robert Jeremy, Georges Jean-Philippe, and Divoux Thierry</i>	17
Development of Wideband Dual Polarized of Microstrip Antennas for Microwave Remote Sensing <i>Akbar Eslami, Manohar Deshpande, James Lee, Henry Mishoe, Jamiiru Luttamaguzi, and Ehsan Sheybani</i>	23
Hybrid Beamformer for TPMS Interference Suppression <i>Suk-seung Hwang, Cheol Park, and Seong-min Kim</i>	28
Multi-millisecond GNSS Maximum Likelihood Bit Synchronization Method <i>Gerardo Ludovico Puga, Pedro Agustin Roncagliolo, and Javier Gonzalo Garcia</i>	34
Turbo Decoder VLSI Architecture with Non-Recursive max* Operator for 3GPP LTE Standard <i>Ashfaq Ahmed, Maurizio Martina, and Guido Masera</i>	40
A Novel Range-spread Target Detection Algorithm Based on Waveform Entropy for Missile-borne Radar <i>Bo Liu, Wenge Chang, and Xiangyang Li</i>	46
A Brief Analysis of the Motion Compensation for FMCW SAR <i>Gaowei Jia, Wenge Chang, Xiangyang Li, and Zhiyong Zhao</i>	52
A Novel DDS-PLL Hybrid Structure to Generate the LFM Signal <i>Zhiyong Zhao, Xiangyang Li, Wenge Chang, and Gaowei Jia</i>	58
Research of Current Movements of the Earth's crust in the Territory of Almaty City <i>Zhumabek Zhantayev, Baurzhan Kurmanov, Assylkhan Bibossinov, and Kairat Sadykov</i>	63
Cloud top height estimation from the Meteosat water vapor imagery using computational intelligence techniques: Preliminary results <i>Stavros Kolios, Petros Karvelis, Chrysostomos Stylios, and Periklis Tagkas</i>	66

