Contents

Devices

Hassan Absalan
A Four-Channel Optical Demultiplexer Using Photonic Crystal-Based Resonant Cavities —— 369

Hadi Razmi, Mohammad Soroosh and Yousef S. Kavian
A New Proposal for Ultra-Compact Polarization Independent Power Splitter Based on Photonic Crystal Structures —— 375

H. Djellab, N. Doghmane, A. Bouarfa and M. Kandouci
Study of the Different Optical Filters in SAC-OCDMA System —— 381

Fibers

Kuldeep Singh and Sandeep K. Arya
A Novel Method to Compensate Fiber Nonlinearities by Using NAFO Model —— 387

Meenakshi Chakraborty and Taraprasad Chattopadhyay
Optical Modulation Enhancement Through CW Injection Locking of a Sinusoidally Modulated Fabry-Perot Laser Diode —— 393

Networks

Mehtab Singh
Simulative Analysis of DWDM-Based Multiple-Beam FSO Communication Network under Adverse Weather Conditions —— 401

Meenakshi Chakraborty and Taraprasad Chattopadhyay
A Scheme for UDWDM-PON Broadband Access Network Using a Mode Locked Laser Diode and Optical Injection Locking —— 407

Receiver

Ram Sharma, Mona Aggarwal and Swaran Ahuja
Channel Capacity and BER Estimation of Indoor Optical Wireless Communication System Under Receiver Mobility —— 413

Systems

Haitham Freag, Emad S. Hassan, Sami A. El-Dolil and Moawad I. Dessouky
New Hybrid PAPR Reduction Techniques for OFDM-Based Visible Light Communication Systems —— 427

Zichun Le, Xianyu Zeng and Minglei Fu
Optimized Base Station Location Planning for Indoor Positioning in Visible Light Communication System —— 437

Li Li and Zhi-Rui Li
Analysis of Transmission Characteristics with Improved Modulation Formats Based on ROF Coherent System —— 449

Monika Rani, Harbax Singh Bhatti and Vikramjeet Singh
Performance Analysis of Spectral Amplitude Coding Optical Code Division Multiple Access System using Modified Double Weight Codes with Adomian Decomposition Method —— 459