

- 1. Computational Intelligence: A Development Environment for Telecommunications Networks Witold Pedrycz and Athanasios V. Vasilakos p. 1
- 2. Neural Network Methods for Call Admission Control Richard G. Ogier and Nina Taft-Plotkin p. 29
- 3. CAC and Computational Intelligence Ray-Guang Cheng and Chung-Ju Chang p. 59
- 4. Fuzzy Connection Admission Control for ATM Networks Kiyohiko Uehara and Kaoru Hirota p. 87
- 5. Congestion Control Andreas Pitsillides and Ahmet Sekercioglu p. 109
- 6. Fuzzy Queue Function for ERICA ATM Switch Controller Yaron Klein and Abraham Kandel p. 159
- 7. Fuzzy Rate Regulation with Feedback Controllers in ATM Networks Christos Douligeris and Yao-Ching Liu p. 177
- 8. Applicability of Reinforcement Learning Algorithms to Usage Parameter Control Antonios F. Atlasis and Athanasios V. Vasilakos p. 197
- 9. Networking Algorithms and Computational Intelligence Sumit Ghosh and Qutaiba Razouqi and P. Seshasayi and Tony S. Lee and Seong-Soon Joo p. 221
- 10. QoS-Based Hierarchical Routing in ATM Networks Using Reinforcement Learning Algorithms: A Methodology Marios P. Saltouros and Antonios F. Atlasis and Athanasios V. Vasilakos and Witold Pedrycz p. 263
- 11. Network Routing with the Use of Evolutionary Methods Masaharu Munetomo p. 287
- 12. Design and Use of Neural Network Applications in Telecommunications R. J. Frank and N. Davey and S. P. Hunt p. 303
- 13. Elements of Computational Intelligence for Network Management P. Venkataram p. 329
- 14. Intelligent Monitoring for Network Fault Management Cynthia S. Hood and Chuanyi Ji p. 363
- 15. A Hybrid Genetic Approach for Channel Reuse in Multiple Access Telecommunication Networks Ioannis E. Kassotakis and Maria E. Markaki and Athanasios V. Vasilakos p. 383
- 16. Use of Computational Intelligence Techniques for Designing Optical Networks Imrich Chlamtac and Andrea Fumagalli and Luca Valcarengi p. 407
- 17. Dynamic Channel Assignment Schemes Using Neural Networks D. Tissainayagam and M. Palaniswami and D. Everitt p. 433
- 18. Mobility Profile Prediction Using Fuzzy Inference in Cellular Networks Xuemin Shen and Jon W. Mark p. 449
- 19. Intelligent Agents in Telecommunication Networks Costas Tsatsoulis and Leen-Kiat Soh p. 479
- Index p. 505