

# Contents

## Special Issue on "Analysis and Control of Biological Networks"

<b>Editorial</b>	595
<b>Regular Papers</b>	
<b>The Role of Feedback Mechanisms in Biological Network Models—A Tutorial</b> Nicole Radde	597
<b>A Parameter Condition for Ruling Out Multiple Equilibria of the Photosynthetic Carbon Metabolism</b> Hong-Bo Lei, Xin Wang, Ruiqi Wang, Xin-Guang Zhu, Luonan Chen, and Ji-Feng Zhang	611
<b>Stability of Genetic Regulatory Networks with Interval Time-Varying Delays and Stochastic Perturbation</b> Yong He, Ling-Yun Fu, Jin Zeng, and Min Wu	625
<b>Robust Stochastic Stability of Genetic Regulatory Networks with Time Delays and Parametric Uncertainties</b> J. Li, G. Chesi, and Y. S. Hung	635
<b>Robust Stability of Delayed Genetic Regulatory Networks with Different Sources of Uncertainties</b> Wei Pan, Zidong Wang, and Jun Hu	645
<b>Robust Stability of Markovian Jumping Genetic Regulatory Networks with Disturbance Attenuation</b> Yingtao Yao, Jinling Liang, and Jinde Cao	655
<b>Robust <math>H_\infty</math> Observer-Based Tracking Control of Stochastic Immune Systems Under Environmental Disturbances and Measurement Noises</b> Bor-Sen Chen, Ying-Po Lin, and Yung-Jen Chuang	667
<b>Bifurcation Search via Feedback Loop Breaking in Biochemical Signaling Pathways with Time Delay</b> Steffen Waldherr, David Dylus, and Frank Allgöwer	691
<b>Adaptation of Simple Molecular Networks to Time-Dependent Stimulus</b> Xiao Chang, Dengyu Liu, Zengrong Liu, Luonan Chen, and Ruiqi Wang	701
<b>Synchronization in Networks of Genetic Oscillators with Delayed Coupling</b> Ping Li and James Lam	713
<b>Bio-Entity Network for Analysis of Protein-Protein Interaction Networks</b> Li-Hong Ren, Yi-Zhen Shen, Yong-Sheng Ding, and Kuo-Chen Chou	726
<b>Spice Simulation of Intracellular Transport: Free Diffusion</b> Gabriel Vasilescu and Luonan Chen	738
<b>Brief Paper</b>	
<b>Exponential <math>H_\infty</math> Filtering for Switched Stochastic Genetic Regulatory Networks with Random Sensor Delays</b> Dan Zhang, Li Yu, and Qing-Guo Wang	749
<b>Call for Papers</b>	756
<b>Call for Papers</b>	758