

# Contents

<b>Searching for Evidence in Traditional Chinese Medicine Research: A Review and New Opportunities.....</b>	<b>1</b>
Simon K. Poon, Shagun Goyal, Albert Cheng, and Josiah Poon	
<b>Causal Complexities of TCM Prescriptions: Understanding the Underlying Mechanisms of Herbal Formulation .....</b>	<b>17</b>
Simon K. Poon, Alan Su, Lily Chau, and Josiah Poon	
<b>Medical Diagnosis by Using Machine Learning Techniques.....</b>	<b>39</b>
Mingyu You and Guo-Zheng Li	
<b>Network Based Deciphering of the Mechanism of TCM.....</b>	<b>81</b>
Yi Sun, Qi Liu, and Zhiwei Cao	
<b>Prescription Analysis and Mining .....</b>	<b>97</b>
Guang Zheng, Miao Jiang, Cheng Lu, and Aiping Lu	
<b>Statistical Validation of TCM Syndrome Postulates in the Context of Depressive Patients.....</b>	<b>111</b>
Yan Zhao, Nevin L. Zhang, Tianfang Wang, Qingguo Wang, and Tengfei Liu	
<b>Artificial Neural Network Based Chinese Medicine Diagnosis in Decision Support Manner and Herbal Ingredient Discoveries .....</b>	<b>123</b>
Wilfred Lin and Jacei Wong	
<b>Chromatographic Fingerprinting and Chemometric Techniques for Quality Control of Herb Medicines.....</b>	<b>133</b>
Zhimin Zhang, Yizeng Liang, Peishan Xie, Footim Chau, and Kelvin Chan	

<b>A New Methodology for Uncovering the Bioactive Fractions in Herbal Medicine Using the Approach of Quantitative Pattern-Activity Relationship .....</b>	<b>155</b>
Foo-tim Chau, Qing-song Xu, Daniel Man-yuen Sze, Hoi-yan Chan, Tsui-yan Lau, Da-lin Yuan, Michelle Chun-har Ng, Kei Fan, Daniel Kam-wah Mok, and Yi-zeng Liang	
<b>An Innovative and Comprehensive Approach in Studying the Complex Synergistic Interactions Among Herbs in Chinese Herbal Formulae .....</b>	<b>173</b>
Chun-Hay Ko, Lily Chau, David Wing-Shing Cheung, Johnny Chi-Man Koon, Kwok-Pui Fung, Ping-Chung Leung, Simon K. Poon, and Clara Bik-San Lau	
<b>Data Mining in Real-World Traditional Chinese Medicine Clinical Data Warehouse .....</b>	<b>189</b>
Xuezhong Zhou, Baoyan Liu, Xiaoping Zhang, Qi Xie, Runshun Zhang, Yinghui Wang, and Yonghong Peng	
<b>TCM Data Mining and Quality Evaluation with SAPHRON™ System .....</b>	<b>215</b>
Jing Yang, Hua Su, Guoshun Tang, Zihan Zheng, Yue Shen, Lei Zhang, Hongyan Wei, Songxia Yin, Lu Chen, Zirong Yang, and William Jia	
<b>An Overview on Evidence-Based Medicine and Medical Informatics in Traditional Chinese Medicine Practice.....</b>	<b>227</b>
Kelvin Chan, Josiah Poon, Simon K. Poon, Miao Jiang, and Aiping Lu	



<http://www.springer.com/978-3-319-03800-1>

Data Analytics for Traditional Chinese Medicine  
Research

Poon, J.; K. Poon, S. (Eds.)

2014, XII, 248 p. 59 illus., 45 illus. in color., Hardcover

ISBN: 978-3-319-03800-1