Contents

Part I Introduction to Internet Addiction

1 The Evolution of Internet Addiction Disorder ...................... 3
   Kimberly Young

2 Theoretical Models of the Development and Maintenance
   of Internet Addiction ........................................... 19
   Matthias Brand

Part II Neuroscientific Approaches to Internet Addiction

3 Structural Brain Imaging and Internet Addiction ................. 37
   Fuchun Lin and Hao Lei

4 Functional Imaging Study of Internet Gaming Disorder .......... 59
   Chih-Hung Ko and Ju-Yu Yen

5 Internet Addiction and PET ..................................... 81
   Hyun Soo Park and Sang Eun Kim

6 Functional Brain Changes in Response to Treatment
   of Internet Gaming Disorder .................................. 93
   Doug Hyun Han, Sun Mi Kim and Perry F. Renshaw

7 Neuroscientific Approaches to (Online) Pornography Addiction .... 109
   Rudolf Stark and Tim Klucken

8 Quantitative Behavior Genetics of Internet Addiction .......... 125
   Elisabeth Hahn and Frank M. Spinath

9 Molecular Genetics, Personality, and Internet Addiction
   Revisited ...................................................... 141
   Christian Montag and Martin Reuter
10 Autonomic Nervous System and Brain Circuitry for Internet Addiction
Andrew Chih Wei Huang

11 Psychometric Assessment of Internet Gaming Disorder in Neuroimaging Studies: A Systematic Review
Halley M. Pontes, Daria J. Kuss and Mark D. Griffiths

12 A Short Summary of Neuroscientific Findings on Internet Addiction
Christian Montag, Éilish Duke and Martin Reuter

Part III Therapeutical Interventions in Internet Addiction and Governmental Policies

13 The Impact of Psychoinformatics on Internet Addiction Including New Evidence
Christian Montag, Martin Reuter and Alexander Markowetz

14 Pharmacological Treatment of Internet Addiction
Giovanni Camardese, Beniamino Leone, Coco Walstra, Luigi Janiri and Riccardo Guglielmo

15 Therapeutic Interventions for Treatment of Adolescent Internet Addiction—Experiences from South Korea
Eunsuk Cho

16 Therapeutic Interventions for Treatment of Adolescent Internet Addiction—Experiences from Germany
Wolfgang Dau, J.D.G. Hoffmann and Markus Banger

17 Psychotherapeutic Approaches to the Treatment of Internet Addicts: Scientific Evidence and Clinical Experience in Germany
Bert te Wildt and Klaus Wölfling

18 Opinion: Real-Time fMRI Neurofeedback and the Application of the Neuropeptide Oxytocin as Promising New Treatment Approaches in Internet Addiction?
Benjamin Becker and Christian Montag

19 The Korean National Policy for Internet Addiction
Young-Sam Koh
Part IV Smartphone Addiction as a Distinct New Emerging Disorder?

Yu-Hsuan Lin, Sheng-Hsuan Lin, Cheryl C.H. Yang and Terry B.J. Kuo

21 Smartphone Addiction and Beyond: Initial Insights on an Emerging Research Topic and Its Relationship to Internet Addiction ................................................................. 359
Éilish Duke and Christian Montag

22 Linking Elementary Properties of the Human Brain to the Behaviour Captured on Touchscreen Smartphones ...... 373
Arko Ghosh

Appendix: Neuroanatomy .......................................................... 383

Glossary .......................................................... 391
Internet Addiction
Neuroscientific Approaches and Therapeutical Implications Including Smartphone Addiction
Montag, C.; Reuter, M. (Eds.)
2017, XI, 392 p. 45 illus., 22 illus. in color., Hardcover
ISBN: 978-3-319-46275-2