

A Framework for Interactive Mindfulness Meditation Using Attention-Regulation Process

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ABSTRACT

We are often overwhelmed by everyday stressors. Mindfulness meditation can help slow things down and bring one's attention into the present moment. Given the prevalence of smartphones, mindfulness-based mobile applications (MBMAs) have received much attention. Current MBMAs mainly use the guided meditation method which may not be always effective, e.g., users may not be able to follow the pace of instructions and they need a private environment. This paper presents a framework for interactive MBMAs which allows users to self-regulate their attention according to their abilities and conditions. The framework is described by an *Attention-Regulation Process* and has two components: (1) *Relaxation Response* and (2) *Attention Restoration Theory*. The framework is validated by our experiment. It also informs future development for interactive meditation and has broad implications for designing mindfulness and well-being.

ACM Classification Keywords

H.5.m. Information Interfaces and Presentation (e.g. HCI): Miscellaneous.

Author Keywords

Framework; mindfulness; meditation; interactivity; attention-regulation process; mobile applications; relaxation response; attention restoration theory.

INTRODUCTION

As our world becomes increasingly fast-paced, we occasionally need to disconnect and refresh ourselves. Mindfulness meditation is a helpful technique which can bring one's attention back to the present moment [19]. Mindfulness practice [47] is defined as a "family of self-regulation practices that focus on training attention in order to bring mental processes



Figure 1. Technology-mediated attention-regulation process [15, 16]. Technology detects the current state of the user's attention and provides real-time feedback to support self-regulation. Our work provides a framework which shows how technology can detect human attention without the use of dedicated sensors, and what kind of feedback can effectively support attention-regulation process.

under greater voluntary control and thereby foster general mental well-being and development and/or specific capacities such as calm, clarity and concentration." The benefits of mindfulness practice have been confirmed as enhancement of human well-being [28], increased attention span [18], stress reduction [38], and improved cognitive abilities [7]. On the more qualitative side, literature shows its effectiveness on empathy, compassion, altruism [25], enlightenment [34], and spiritual health [46]. Given the prevalence of smartphones [19], there are a lot of opportunities for mindfulness-based mobile applications (MBMAs).

However, current MBMAs mainly use the *guided meditation* method [31, 49] which follows the tradition of users following instructions from a meditation teacher. Nevertheless, this technique may not always be effective considering that users should be able to follow the pace of instructions. Furthermore, participation requires a dedicated private environment [37, 48]. Given these limitations, researchers have been exploring *attention-regulation process* [15, 16] which describes a cycle of self-regulation supported by technology-mediated detection and feedback mechanisms (see Figure 1). However, this approach also suffers from the need of dedicated accessories (e.g., respiration sensors, EEG).

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Mindfulness Meditation Framework

Irene Kraegel

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Mindfulness and the Arts Therapies Laury Rappaport,2013-10-21 This ground breaking book explores the theoretical clinical and training application of integrating mindfulness with all of the arts therapies and includes cutting edge contributions from neuroscience with 6 sections that examine mindfulness and the arts therapies from different perspectives written by pioneers and leaders in their fields

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Linden, Giuseppe De Benedittis, Laurence I. Sugarman, Katalin Varga, 2024-02-02 The Routledge International Handbook of Clinical Hypnosis explores and clarifies the challenge of defining what hypnosis is and how best to integrate it into treatment. It contains state of the art neuroscience cutting edge practice and future oriented visions of clinical hypnosis integrated into all aspects of health and clinical care. Chapters gather current research theories and applications in order to view clinical hypnosis through the lens of neurobiological plasticity and reveal the central role of hypnosis in health care. This handbook catalogs the utility of clinical hypnosis as a biopsychosocial intervention amid a broad range of treatment modalities and contexts. It features contributions from esteemed international contributors covering topics such as self hypnosis key theories of hypnosis hypnosis and trauma hypnosis and chronic pain management attachment and more. This handbook is essential for researchers clinicians and newcomers to clinical hypnosis in medical schools hospitals and other healthcare settings.

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Work in Progress Dr.

Abbie Maroño, 2024-07-09 In Work in Progress Dr Abbie Maroño debunks the pervasive myth that shame is the antithesis of empowerment revealing how if understood and embraced it can guide us towards our most authentic selves. Popular media often offers individuals empty promises of empowerment urging them to become bulletproof. It also portrays shame as the antithesis of empowerment. Yet in reality shame signals when one's actions don't align with their ideal self. By dismissing this signal they hinder their journey to becoming their best selves. True empowerment arises when one cultivates a healthy relationship with shame. Work in Progress delves into the science of shame and empowerment equipping people to navigate their feelings of shame and transition into a state of empowerment. While many books on empowerment are well intentioned they often overlook or misinterpret the science behind individuals' experiences of shame how they reconcile their self perception with their surroundings and how they achieve empowerment amidst its elusive definition. This work challenges the idea that empowerment is exclusively a feminist concept reserved for women. It underscores that empowerment is universal accessible to all no matter who they are

Cultivating Mindfulness in Clinical Social Work Terry B. Northcut, 2017-03-25

This practice focused resource integrates broad therapeutic knowledge with current neuroscience to present vast possibilities for mindfulness in clinical social work. Seasoned practitioners posit mindfulness practice and process as a significant bridge between taking care of self and taking care of others demonstrating its implications for physical and

mental health in personal and professional contexts Case studies show timeless concepts e g acceptance and new mindfulness based ideas e g learned helpfulness in use in individual treatment as well as couples counseling and group interventions Also attesting to the utility of mindfulness across problems settings and practitioner orientations diverse applications are organized along ten robust lenses among them Beginning with the context the mind body conundrum Beginning with the body the neurobiology of mindfulness Beginning with the training training clinicians in essential methods for integrating mindfulness in clinical practice Beginning with the clients mindfully reconciling opposites with survivors of trauma complex traumatic stress disorders Beginning with the symptom incorporating mindfulness in the treatment of substance misuse Beginning with the larger social system mindfulness and restorative justice Clinicians and research professionals particularly interested in psychotherapy treatment and mindfulness practice will find Cultivating Mindfulness in Clinical Social Work not only stimulating and intriguing but also a fresh source of real world wisdom **Mé Dia** Daniel Gavaghan,2020-04-07 This book reflects the spiritual path with which Ireland has undergone over many thousands of years It recounts the connections Ireland has with other spiritual traditions throughout the world The book also reflects upon Ireland's geological history plant life flora and fauna and endeavours to prove that Ireland has a deep connection to a once ancient spiritual past That Ireland was once at the centre of everything and absorbed all spiritual truths from around the world and endeavoured to rewrite that truth in a way with which it was more palatable for the social masses at the time

Proceedings of the International e-Conference on Intelligent Systems and Signal Processing Falgun Thakkar,Geetali Saha,Celia Shahnaz,Yu-Chen Hu,2021-08-13 This book provides insights into the Third International Conference on Intelligent Systems and Signal Processing eISSP 2020 held By Electronics Communication Engineering Department of G H Patel College of Engineering Technology Gujarat India during 28 30 December 2020 The book comprises contributions by the research scholars and academicians covering the topics in signal processing and communication engineering applied electronics and emerging technologies Internet of Things IoT robotics machine learning deep learning and artificial intelligence The main emphasis of the book is on dissemination of information experience and research results on the current topics of interest through in depth discussions and contribution of researchers from all over world The book is useful for research community academicians industrialists and postgraduate students across the globe **Mindfulness**

Meditation as a Health Behavior and Its Relationships with Health Related Quality of Life and Drug Use Charoen Treesak,2003 **The Resilience and Wellbeing Toolbox** Madhavi Nawana Parker,2020-10-28 This fully updated second edition is a practical guide for parents teachers and other professionals to create cultures of resilience and wellbeing in schools homes and health care settings Students will build lifelong competencies to improve their emotional regulation empathy persistence problem solving mindset optimism gratitude kindness and values improving their psychological readiness to bounce back from life's ups and downs Alongside new lesson plans that are even easier to follow and specific

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