

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 [9], 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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Framework Mindfulness Meditation

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Mindful Master Nick Trenton, 2020-09-07 Practical steps to live in the present and stop overthinking with everyday meditation and mindfulness If you're feeling emotionally absent in your own life something needs to change If you can't focus on the present moment and keep drifting to past regrets or future dangers something needs to change That change is mindfulness meditation Tame your anxious and negative emotions and stay even keeled no matter what Mindful Master is a spotlight on how to focus on the now which is to focus on happiness and gratitude All we have is the present moment and cultivating this skill is the key to fulfillment This book brings mindfulness and meditation into simple everyday practices for you to become the best version of yourself The modern world pulls us 100 different directions at once so it's easy to become lost and overwhelmed Mindful Master is the tool you need to downsize your thoughts and focus only on what matters Mindfulness and meditation in plain English for both beginners and veterans Nick Trenton grew up in rural Illinois and is quite literally a farm boy His best friend growing up was his trusty companion Leonard the dachshund RIP Leonard Eventually he made it off the farm and obtained a BS in Economics followed by an MA in Behavioral Psychology Unlock the most valuable tool to help navigate life's challenges Positive psychology and how to use it for your own peace of mind The surprising pillars of mindfulness and mental calm How mindfulness can develop in less than 10 minutes a day with simple exercises How to master meditation and make it work for you even for skeptics Emergency techniques for moments of rage anxiety and worry How to ease emotional turmoil and simply breathe Discover how to live in the present not in the past or future No more emotional overwhelm It's time to take charge of your life

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Process Theology Louise Ann Graves,1999 Author explores the usefulness of mindfulness meditation in pastoral counseling

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