

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

Charoen Treesak



Framework Mindfulness Meditation:

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

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

Theoretical Framework for the Use of Mindfulness Meditation in the Practice of Pastoral Counselling from the Perspectives of Transpersonal Psychology and Process Theology Louise Ann Graves, 1999 Author explores the usefulness of mindfulness meditation in pastoral counseling

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 Calm Your Thoughts Nick Trenton, 2021-06-29 Stop letting negativity drain all of your energy leaving you unable to see the brighter side of life A noisy brain is the biggest cause of unhappiness It prevents us from seeing what possibilities lie before us Life turns into a minefield rather than a set of new opportunities Let s change this right now Don t be your own greatest enemy Calm Your Thoughts is a book that understands where you ve been through the exhausting situation you ve put yourself into and how you lose your mind in the trap of anxiety and stress Acclaimed author Nick Trenton will walk you through the obstacles with detailed and proven techniques to help you rewire your brain control your thoughts and change your mental habits What s more the book will provide you scientific approaches to completely change the way you think and feel about yourself by ending the vicious thought patterns Learn to control your emotions and stay zen 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 Psychologically proven tips to get out of your head and into your life Emotional regulation frameworks Simple ways to understand your true worries and anxieties How to simplify cognitive behavioral therapy for daily use Proven techniques for dealing with mental chatter and negativity A day without worry rumination or anxiety That could be yours No more self deprecating talk No more sleepless nights with racing thoughts Free your mind from overthinking and achieve more feel better and unleash your potential Finally be able to live in the present moment Stress Management Prof. Dr. Bilal Semih Bozdemir, Cognitive distortions or irrational thought patterns are also central to the psychological understanding of stress triggers Individuals may exhibit all or nothing thinking catastrophizing events or engaging in overgeneralization which can serve to amplify feelings of stress Identifying and restructuring these negative cognitive patterns is a critical component of cognitive behavioral therapy CBT a widely recognized approach in stress management By recognizing these distortions individuals can gain greater control over their stress responses and reduce the occurrence of triggers that stem from faulty cognition A Mindful Moment Irene Kraegel, 2022-08-02 A Mindful Moment is the book you need to center yourself with God A guide for Christian prayer meditation and mindfulness this unique devotional includes guided meditations that are Biblically centered and 100% accessible to teens just like you This devotional focuses on four key categories physical sensations negative emotions compassion to self and lovingkindness to others It can be used as a guide for daily meditation

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Handbook of Research on Neurocognitive Development of Executive Functions and Implications for Intervention Alcantud-Marín, Francisco, López-Ramón, María

Fernanda, Navarro-Pardo, Esperanza, Moreno-Campos, Veronica, Alonso-Esteban, Yurena, 2022-03-18 Executive functions develop during the first years of life and determine future learning and personal development Executive dysfunction is related to various neurodevelopmental disorders so its study is of great interest for intervention in children with neurotypical development and in those who have suffered a neurodevelopmental disorder The Handbook of Research on Neurocognitive Development of Executive Functions and Implications for Intervention offers updated research on executive functions and their implication in psychoeducational intervention It establishes a multidisciplinary context to discuss both intervention experience and research results in different areas of knowledge Covering topics such as childhood inhibitory processing mindfulness interventions and language development this major reference work is an excellent resource for psychologists medical professionals researchers academicians educators and students

Mindfulness Meditation as a Health Behavior and Its Relationships with Health Related Quality of Life and Drug Use Charoen Treesak, 2003

Buddhist Foundations of Mindfulness Edo Shonin, William Van Gordon, Nirbhay N. Singh, 2015-08-27 This book explores a wide range of mindfulness and meditative practices and traditions across Buddhism It deepens contemporary understanding of mindfulness by examining its relationship with key Buddhist teachings such as the Four Noble Truths and the Noble Eight Fold Path In addition the volume explores how traditional mindfulness can be more meaningfully incorporated into current psychological research and clinical practice with individuals and groups e.g. through the Buddhist Psychological Model Key topics featured in this volume include Ethics and mindfulness in P li Buddhism and their implications for secular mindfulness based applications Mindfulness of emptiness and the emptiness of mindfulness Buddhist teachings that support the psychological principles in a mindfulness program A practical contextualization and explanatory framework for mindfulness based interventions Mindfulness in an authentic transformative everyday Zen practice Pristine mindfulness Buddhist Foundations of Mindfulness is an indispensable resource for clinical psychologists and affiliated medical and mental health professionals including specialists in complementary and alternative medicine as well as social

work as well as teachers of Buddhism and meditation **Psychological Factors as Determinants of Medical Conditions, Volume II** Gabriella Martino,Andrea Caputo,Valentina Cazzato,Carmelo Mario Vicario,2022-04-06

Evidence-Based Coaching Volume 1 Michael Cavanagh,Anthony M. Grant,Travis Kemp,2005 Presents key papers from from the first Evidence Based Coaching Conference held at the University of Sydney July 2003 Addresses the concerns of the emerging profession of coaching giving an overview of the field developing coaching theory and its evidence based practice and reporting on empirical and qualitative studies **Credition - An Interdisciplinary Approach to the Nature of**

Beliefs and Believing Rüdiger J. Seitz,Hans Ferdinand Angel,Raymond Paloutzian,Ann Taves,2023-07-27 The concept of credition represents an innovative research field at the interface of the natural sciences and the humanities addressing the nature of beliefs and believing Credition signifies the integrative information processing that is brought about by neurophysiologically defined neural activity in the brain affording decision making In analogy to cognition and emotion it is mediated by neural processes and constrains behavior by predictive coding Three categories of beliefs have been defined on the background of evolutionary biology that can be differentiated linguistically The goal of the collection of research papers is to provide an interdisciplinary discourse on an international level in the emerging field of credition On this basis individual group specific and cultural narratives of secular and non secular origin can become normative in particular when enhanced by ritual acts Also the recently defined belief categories can pave the way for novel approaches of empirical research on the formation of civilizations and cultures as well as for new perspectives on the psychopathological understanding of mental disorders The disciplines of empirical research such as cognitive science neurophysiology neuropsychology social neuroscience shall counteract with theoretical disciplines such as anthropology philosophy and theology in order to elaborate premises that are suited to bridge the scientific gap The potential contributors will submit their abstracts such that they are available for the International meeting Credition An Interdisciplinary Challenge that is going to take place in October 2021 in Hannover Germany Following the symposium the participants shall elaborate their perspective concerning beliefs and believing based on their expertise and the information they have learned during the symposium The authors are expected to submit a concise paper of 2000 words C Type Article **Meditation and Mindfulness in Everyday Life** Jere

Taft,2016-01-20 Bonus section on children added A must have for every parent Do you want to Increase intelligence Increase work productivity Reduce depression and anxiety Eliminate addiction Lower blood pressure and cholesterol And much much more If your answer is yes to any of the above then this guide is here to help Many studies have shown that the practice of mindfulness and meditation helps to achieve all of the above without any side effects And that s what this guide is created to help you achieve Unlike other books on meditation or mindfulness this book is specially written for beginners It is filled with success stories practical exercises and a step by step framework for you to start a mindful life today Here are examples of what you ll discover The Surprising Power of Mindfulness Life Changing Insights From Oprah Gisele Clint Eastwood and

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Buddhist Studies Review ,2006

The American Journal of Psychiatry ,1982

The Future of Workplace

Spirituality as Science Pitshou Moleka,2023-11-09 Academic Paper from the year 2023 in the subject Psychology Work Business Organisation grade A language English abstract This book brings several new frameworks paradigms and concepts to the science of workplace spirituality Integrating Spirituality in Organizational Development This book brings a new paradigm by proposing that spirituality should be integrated into organizational development It introduces the concept of spiritually intelligent based organizations SIBO and provide a framework for developing spiritual intelligence in organizations A new framework that I call S P I R I T U A L I T Y S Sense of Purpose P Practices for Mindfulness and Self awareness I Importance of Empathy and Compassion R Responsibility for Ethical Behavior and Social Responsibility I Investment in Continuous Learning and Development T Teamwork and Community Service U Utilization of Servant Leadership A Alignment with Purpose and Meaning L Leadership Development I Inclusivity and Diversity T Transparency and Open Communication Y Year round Focus on Spirituality is developed in this book The Role of Technology in Workplace Spirituality The book explores the role of technology in facilitating workplace spirituality It introduces new concepts such as digital mindfulness and virtual spirituality and provide guidance on how to integrate technology in workplace spirituality practices This book brings also several new frameworks to measure workplace spirituality impact on employees and leaders such as Spiritual Values Assessment SVA and Workplace Spirituality Climate Survey WSCS In practice this book can be useful for managers leaders and employees who are interested in incorporating workplace spirituality into their organizations It provides practical insights and examples of how workplace spirituality can be implemented in organizations and how it can benefit both individual employees and the organization as a whole This can help organizations create a more positive and fulfilling work environment enhance employee engagement and well being and promote social responsibility and purpose driven work Overall this book can be a valuable resource for anyone interested in understanding the role of workplace spirituality in modern organizations both from a theoretical and practical perspective **The Art and Science of Mindfulness** Shauna L. Shapiro,Linda E. Carlson,2009 Intention is fundamental to any project endeavor or journey Related to intention is the concept of mindfulness the awareness that arises through intentionally attending to oneself and others in an open accepting and discerning way Drawing from Buddhist teachings and psychological theory authors Shapiro and Carlson explore why mindful awareness is integral to the therapeutic healing process Their book integrates the art and science of mindfulness to

inspire greater well being in both clinicians and their patients As such mindfulness is understood as a universal human capacity that can help bridge the gap between therapist and patient reminding us that we are all human beings aspiring to greater health happiness and freedom from suffering Publisher description **Meditation as an Intervention in Stress Reactivity** Amarjit Singh Sethi,1989

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web in a geometric sequence there is a common ratio r between consecutive terms in the sequence for example 2 6 18 54
 162 is a sequence with the rule start at two and multiply each number by three the first term u_1 is 2 the common ratio r is 3
 a geometric sequence can be increasing $r > 1$ or decreasing $0 < r < 1$

web don't want to make a mistake here these are sequences you might also see the word a series and you might even see a geometric series a series the most conventional use of the word series means a sum of a sequence so for example this is a geometric sequence a geometric series would be $90 + (-30) + 10 + (-10) + 3$

we use the following formula to find any term of an arithmetic sequence

$$a_n = a_1 + (n - 1)d$$

where a_n is the term in the sequence you are trying to find n represents the desired term number a_1 the first term in the sequence d the common difference

example what is the 10th term of the following sequence 1 5 9 13

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web an arithmetic sequence has a constant difference between each consecutive pair of terms this is similar to the linear functions that have the form $y = mx + b$ a geometric sequence has a constant ratio between each pair of consecutive terms this would create the effect of a constant multiplier 5 11 17 23 29 35

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web to find the next term of any geometric sequence these are the steps need to follow step 1 choose any two consecutive terms from the given sequence step 2 divide the second term by the first term to get the value of the common ratio step 3 multiply the previous term by the common ratio to get the next term 4

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