

# 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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# Mindfulness Meditation Framework

**Rüdiger J. Seitz, Hans Ferdinand  
Angel, Raymond Paloutzian, Ann Taves**



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**The Routledge International Handbook of Clinical Hypnosis** Julie H. 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 Chapters 4 35 62 and 63 of this book are freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

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*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

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**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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*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

**Guided Meditation and the Teaching of Jesus** Joan Cooper, 1982-11-30      **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 and reflection but allows for flexibility providing inspiration and God's peace in any situation Use it on your journey to self love and then let it take you to a place of love for all as Jesus calls us to love A Mindful Moment includes A how to guide to simple meditation A brief history of Christian meditation practices A simple yet inspirational design that makes is perfect for anyone in need of time with God

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Author Irene Kraegel is a licensed clinical psychologist who brings her experience as a counselor and her knowledge of the scientific benefits of mindfulness to this collection of devotions A Mindful Moment is a resource for living in God's presence that you can trust

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**Psychotherapy, Meditation and Health** Maurits G. T. Kwee, 1990

The American Journal of Psychiatry, 1982

*A 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

**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

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*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  
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