



The bidirectional relationships between fear of missing out, problematic social media use and adolescents' well-being: A random intercept cross-lagged panel model

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ABSTRACT

Problematic social media use (PSMU) is a societal problem, which impacts adolescents' well-being. Fear of missing out (FoMO) has been suggested as a core risk factor predicting both PSMU and adolescents' well-being. However, longitudinal research on the directionality of these relationships is scarce. The present study aims to fill this knowledge gap by testing the bidirectional relationships between FoMO, PSMU and adolescents' life satisfaction in the total sample, as well as for girls and boys separately. This study used four-waves annual longitudinal data collected from 2015 to 2019 among Dutch adolescents aged 11–15 years ($n = 1439$, $M_{age} = 12.5 \pm 0.60$, 45.9% girls). We applied random intercept cross-lagged panel model(s) to separate within-person level effects from between-person level effects. On the within-person level, findings suggested a unidirectional relationship whereby FoMO increased PSMU during mid-adolescence, but not vice versa. Moreover, low life satisfaction predicted an increase in FoMO during early adolescence. These findings underline that FoMO can be considered a risk factor of PSMU, and that low life satisfaction may be a risk factor for developing FoMO. These insights should be considered in intervention programs developed to effectively prevent unhealthy internet use in adolescents.

1. Introduction

Social media platforms such as Facebook, Instagram, and Snapchat have become an integral aspect of adolescents' daily lives worldwide (Okeke et al., 2019). However, concerns have been raised by families and schools when adolescents use social media problematically. Problematic social media use (PSMU) can be defined as uncontrollable, addictive-like social media use that persists over a longer period of time (van den Eijnden et al., 2016). This behavior always comes at the expense of important life domains for adolescents (Banyai et al., 2017; Paakkari et al., 2021; Shannon et al., 2022). There is a growing body of empirical evidence indicating that adolescents who have developed PSMU subsequently report lower levels of well-being (Boer, Stevens, Finkenauer, de Loone, & van den Eijnden, 2021; Chang et al., 2022; Li et al., 2018; Marentla et al., 2021; Raudsepp, 2019; van den Eijnden et al., 2021), for instance life satisfaction (Boer, Stevens, Finkenauer, & van den Eijnden,

2021; Marentla et al., 2021; van den Eijnden et al., 2018).

Meanwhile, scholars have suggested that fear of missing out (FoMO) may be a core risk factor that is associated with both higher levels of PSMU (Poniraventi et al., 2023; Gul et al., 2023; Çelik et al., 2022) and lower levels of life satisfaction among adolescents (Demir, 2021; Çelik et al., 2022). Yet, there is a scarcity of empirical studies investigating the interrelationships between FoMO, PSMU, and life satisfaction. The Differential Susceptibility to Media Effects Model (DSMEM; Valkenburg & Peter, 2013) provides a comprehensive theoretical framework elucidating that media use factors predict media response states (i.e., state variables originating from media use), which in turn predict media effects (i.e., cognitive, emotional, attitudinal, and behavioral effects of media on individuals), whereby it is assumed that preexisting individual and social context factors may predict media use, but may also influence the relationships between media use and media response states/media effects. When applying the DSMEM, PSMU can be considered a media use

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Relationships Discovering The Missing Links

**Ana Fred, Jan L. G. Dietz, Kecheng
Liu, Joaquim Filipe**



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Dad The Missing Link Darryl Husband, 2012-06-11 Broken generations are nothing new Many of us are the healed product of broken parenting Dysfunctional families are not a new phenomenon just a new word to describe an old issue Perched on the periphery of our ideals as believers has always been the pain of brokenness dysfunction and the God that calls chaos into order Between these pages you will hear the pains of broken people and the plans and possibilities of a better posterity We can make a difference Conceptual Modeling Dominik Bork, Roman Lukyanenko, Shazia Sadiq, Ladjel

Bellatreche, Oscar Pastor, 2025-11-19 This book constitutes the proceedings of the 44th International Conference on Conceptual Modeling ER 2025 which took place in Poitiers France during October 20-23 2025 The 22 full papers included in this book were carefully reviewed and selected from 106 submissions The ER conference is providing a forum for the presentation discussion and debate of innovative and emerging ideas concepts and methods They create an environment that encourages experimentation interdisciplinary exchange and the exploration of new research frontiers Intelligent Information and Database Systems Ali Selamat, Ngoc Thanh Nguyen, Habibollah Haron, 2013-02-26 The two volume set LNAI 7802 and LNAI 7803 constitutes the refereed proceedings of the 5th Asian Conference on Intelligent Information and Database Systems ACIIDS 2013 held in Kuala Lumpur Malaysia in March 2013 The 108 revised papers presented were carefully reviewed and selected from numerous submissions The papers included are grouped into topical sections on innovations in intelligent computation and applications intelligent database systems intelligent information systems tools and applications intelligent recommender systems multiple modal approach to machine learning engineering knowledge and semantic systems computational biology and bioinformatics computational intelligence modeling and optimization techniques in information systems database systems and industrial systems intelligent supply chains applied data mining for semantic Web semantic Web and ontology integration of information systems and conceptual modeling in advanced database systems

Knowledge Discovery, Knowledge Engineering and Knowledge Management Ana Fred, Jan L. G. Dietz, Kecheng Liu, Joaquim Filipe, 2011-02-04 This book constitutes the thoroughly refereed post conference proceedings of the First International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2009 held in Funchal Madeira Portugal in October 2009 This book includes revised and extended versions of a strict selection of the best papers presented at the conference 27 revised full papers together with 3 invited lectures were carefully reviewed and selected from 369 submissions According to the three covered conferences KDIR 2009 KEOD 2009 and KMIS 2009 the papers are organized in topical sections on knowledge discovery and information retrieval knowledge engineering and ontology development and on knowledge management and information sharing *Between the Empires* Patrick Olivelle, 2006-07-13 This volume is the result of an international conference organized by the South Asia Institute at the University of Texas Patrick Olivelle has collected and edited the best papers to emerge from the conference Part I of the book

looks at what can be construed from archeological evidence Part II concerns itself with the textual evidence for the period Taken together these essays offer an unprecedented look at Indian culture and society in this distant epoch The Semantic Web Karl Aberer,Key-Sun Choi,Natasha Noy,Dean Allemang,Kyung-Il Lee,Lyndon Nixon,Jennifer Golbeck,Peter Mika,Diana Maynard,Riichiro Mizoguchi,Guus Schreiber,Philippe Cudré-Mauroux,2007-10-27 This book constitutes the refereed proceedings of the joined 6th International Semantic Web Conference ISWC 2007 and the 2nd Asian Semantic Web Conference ASWC 2007 The papers address all current issues in the field of the semantic Web ranging from theoretical and foundational aspects to various applied topics such as management of semantic Web data ontologies semantic Web architecture social semantic Web as well as applications of the semantic Web **Fifty Years to Say I Love You** TaJuana J. Davis,2014-08-28 Focusing on what led to chaos resentment and hostility from abuse and neglect during my childhood guides my journey to a testimony of hope and healing During my search for healing I discovered its not the details in my story but the outcome from my journey that holds great substance Clarifying what this means to me has come after repeatedly processing the pain from past memories and attempting to make sense of the whats and whys I now realize its more critical to endure the pain of emotional surgery and rid myself of what polluted my heart rather than allowing my mind to be consumed with a past that lead to no positive outcome A simple approach Ive embraced is gracefully vomiting up the painful details that became my souls disease since the solution to being free of most diseases requires major surgery To be set free from the weight of my past I had to purge all destructive coping patterns leading to my disease and replace them with something else I had a choice remain stuck in these details at a great cost to my well being or remove what caused my souls disease to interfere with everything I desired to be relationally linked to my marriage children and even my worship with God Theres nothing pleasant about regurgitating however the effort of doing so brought me great freedom and forgiveness as the replacement of this weight led to a positively beautiful outcome You too can find hope Be still and know that I am God Psalm 46 10 **Advances in Knowledge Discovery and Data Mining** Xintao Wu,Myra Spiliopoulou,Can Wang,Vipin Kumar,Longbing Cao,Yanqiu Wu,Yu Yao,Zhangkai Wu,2025-07-19 The five volume set LNAI 158710 15874 constitutes the proceedings of the 29th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2025 held in Sydney New South Wales Australia during June 10 13 2025 The conference received a total of 557 submissions to the main track 35 submissions to the survey track and 104 submission to the special track on LLMs Of these 134 papers have been accepted for the main track 10 for the survey track and 24 for the LLM track 68 papers have been transferred to the4 DSFA special session The papers have been organized in topical sections as follows Part I Anomaly Detection Business Data Analysis Clustering Continual Learning Contrastive Learning Data Processing for Learning Part II Fairness and Interpretability Federated Learning Graph Mining and GNN Learning on Scientific Data Part III Machine Learning Multi modality OOD and Optimization Recommender Systems Representation Learning and Generative AI Part IV Security and Privacy Temporal

Learning Survey Part V LLM Fine tuning and Prompt Engineering Fairness and Interpretability of LLMs LLM Application OOD and Optimization of LLMs

Dynamical Systems with Applications using Python Stephen Lynch, 2018-10-09 This textbook provides a broad introduction to continuous and discrete dynamical systems With its hands on approach the text leads the reader from basic theory to recently published research material in nonlinear ordinary differential equations nonlinear optics multifractals neural networks and binary oscillator computing Dynamical Systems with Applications Using Python takes advantage of Python's extensive visualization simulation and algorithmic tools to study those topics in nonlinear dynamical systems through numerical algorithms and generated diagrams After a tutorial introduction to Python the first part of the book deals with continuous systems using differential equations including both ordinary and delay differential equations The second part of the book deals with discrete dynamical systems and progresses to the study of both continuous and discrete systems in contexts like chaos control and synchronization neural networks and binary oscillator computing These later sections are useful reference material for undergraduate student projects The book is rounded off with example coursework to challenge students programming abilities and Python based exam questions This book will appeal to advanced undergraduate and graduate students applied mathematicians engineers and researchers in a range of disciplines such as biology chemistry computing economics and physics Since it provides a survey of dynamical systems a familiarity with linear algebra real and complex analysis calculus and ordinary differential equations is necessary and knowledge of a programming language like C or Java is beneficial but not essential

Machine Learning and Knowledge Discovery in Databases Michelangelo Ceci, Jaakko Hollmén, Ljupčo Todorovski, Celine Vens, Sašo Džeroski, 2017-12-29 The three volume proceedings LNAI 10534 10536 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2017 held in Skopje Macedonia in September 2017 The total of 101 regular papers presented in part I and part II was carefully reviewed and selected from 364 submissions there are 47 papers in the applied data science nectar and demo track The contributions were organized in topical sections named as follows Part I anomaly detection computer vision ensembles and meta learning feature selection and extraction kernel methods learning and optimization matrix and tensor factorization networks and graphs neural networks and deep learning Part II pattern and sequence mining privacy and security probabilistic models and methods recommendation regression reinforcement learning subgroup discovery time series and streams transfer and multi task learning unsupervised and semisupervised learning Part III applied data science track nectar track and demo track

The Top Books of the Year Relationships Discovering The Missing Links The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Relationships Discovering The Missing Links : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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