



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

**Peter A. Flach, Tijl De Bie, Nello
Cristianini**



Relationships Discovering The Missing Links:

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

Relationships Alice Mathews, Alyse Sprintz, 1994-09

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 the 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 **Discovering the Okapi** Simon Pooley, 2025-11-11 The captivating history of the okapi and its symbolic role in science culture and conservation In Discovering the Okapi Simon Pooley offers a fascinating portrait of the okapi an elusive short necked giraffid with zebra stripes surviving in the rainforests of central Africa s Congo basin and unpacks the complicated layers of Western science and Indigenous knowledge that shaped the world s understanding of this

unique creature Pooley tells the story of the okapi's discovery in 1900 by British naturalist Sir Harry Johnston as well as the overlooked contributions of the Indigenous African people whose expertise made this sighting and subsequent hunt for specimens possible The book traces how colonial politics and scientific racism shaped early accounts of the animal's study and examines the enduring biases that continue to influence conservation efforts today The okapi became a symbol of scientific curiosity colonial power and conservation challenges revealing complex intersections among biodiversity cultural heritage and environmental stewardship Its precarious existence in captivity and the wild exposes how Western and Indigenous approaches to conservation can and must find common ground for its survival *ECAI 2012 C.*

Bessiere, 2012-08-15 Artificial intelligence AI plays a vital part in the continued development of computer science and informatics The AI applications employed in fields such as medicine economics linguistics philosophy psychology and logical analysis not forgetting industry are now indispensable for the effective functioning of a multitude of systems This book presents the papers from the 20th biennial European Conference on Artificial Intelligence ECAI 2012 held in Montpellier France in August 2012 The ECAI conference remains Europe's principal opportunity for researchers and practitioners of Artificial Intelligence to gather and to discuss the latest trends and challenges in all subfields of AI as well as to demonstrate innovative applications and uses of advanced AI technology ECAI 2012 featured four keynote speakers an extensive workshop program seven invited tutorials and the new Frontiers of Artificial Intelligence track in which six invited speakers delivered perspective talks on particularly interesting new research results directions and trends in Artificial Intelligence or in one of its related fields The proceedings of PAIS 2012 and the System Demonstrations Track are also included in this volume which will be of interest to all those wishing to keep abreast of the latest developments in the field of AI *The European Union and Interregionalism* Mr Mathew Doidge, 2013-03-28 The European Union and Interregionalism is the most comprehensive study of interregionalism to date providing a vigorous analysis of its role and functions in the architecture of global governance and of the place of qualitative differences between regional actors in shaping interregional relationships Regionalism itself is an established phenomenon with regional politics becoming increasingly institutionalised As a result with the EU as forerunner regions have begun to exert themselves in the external policy space developing networks of relations including prominently interregional relations We have thus seen the emergence of a new governance space at the interregional level banded on one side by sites of global governance and on the other by governance at the regional level Important questions challenging the current literature of these interregional structures include do interregional relationships conform to theoretical expectations and what patterns of engagement and interaction are emerging within the EU's core interregional partnerships and are these replicated elsewhere Exploring interregionalism beyond the core Europe Asia partnerships including the network of relations centred on ASEAN this book should be read by all those engaged in consideration of interregional structures to understand how patterns of EU centred interregional engagement rather than

being sui generis are increasingly evident in the broader network of interregional relationships *NETWORKING 2011* Jordi Domingo-Pascual, Pietro Manzoni, Sergio Palazzo, Ana Pont, Caterina Scoglio, 2011-04-27 The two volume set LNCS 6640 and 6641 constitutes the refereed proceedings of the 10th International IFIP TC 6 Networking Conference held in Valencia Spain in May 2011 The 64 revised full papers presented were carefully reviewed and selected from a total of 294 submissions The papers feature innovative research in the areas of applications and services next generation Internet wireless and sensor networks and network science The second volume includes 28 papers organized in topical sections on peer to peer pricing resource allocation resource allocation radio resource allocation wireless social networks and TCP **Intelligent**

Computing & Optimization Pandian Vasant, Ivan Zelinka, Gerhard-Wilhelm Weber, 2018-09-27 This book includes innovative research work presented at ICO 2018 the 1st International Conference on Intelligent Computing and Optimization held in Pattaya Thailand on October 4 5 2018 The conference presented topics ranging from power quality reliability security assurance cloud computing smart cities renewable energy agro engineering smart vehicles deep learning block chain power systems AI machine learning manufacturing systems and big data analytics This volume focuses on subjects related to innovative computing uncertainty management and optimization approaches to real world problems in big data smart cities sustainability meta heuristics cyber security IoTs economics and finance renewable energy energy and electricity systems and block chain Presenting cutting edge methodologies with real world application problems and their solutions the book is useful for researchers managers executives students academicians practicing scientists and decision makers from all around the globe It offers the academic and the applied communities a compendium and a research resource with significant insights and inspiration for innovative scientific education investigation and collaboration to overcome hard problems among the emerging challenges today and in the future **The New Age of Faith** John Langdon-Davies, 1925 Advanced

Informatics for Computing Research Ashish Kumar Luhach, Dharm Singh, Pao-Ann Hsiung, Kamarul Bin Ghazali Hawari, Pawan Lingras, Pradeep Kumar Singh, 2018-12-12 This two volume set CCIS 955 and CCIS 956 constitutes the refereed proceedings of the Second International Conference on Advanced Informatics for Computing Research ICAICR 2018 held in Shimla India in July 2018 The 122 revised full papers presented were carefully reviewed and selected from 427 submissions The papers are organized in topical sections on computing methodologies hardware information systems networks security and privacy computing methodologies Encyclopedia of Machine Learning Claude Sammut, Geoffrey I. Webb, 2011-03-28 This

comprehensive encyclopedia in A Z format provides easy access to relevant information for those seeking entry into any aspect within the broad field of Machine Learning Most of the entries in this preeminent work include useful literature references Machine Learning and Knowledge Discovery in Databases Peter A. Flach, Tijl De Bie, Nello

Cristianini, 2012-09-11 This two volume set LNAI 7523 and LNAI 7524 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2012 held in Bristol UK in September

2012 The 105 revised research papers presented together with 5 invited talks were carefully reviewed and selected from 443 submissions The final sections of the proceedings are devoted to Demo and Nectar papers The Demo track includes 10 papers from 19 submissions and the Nectar track includes 4 papers from 14 submissions The papers grouped in topical sections on association rules and frequent patterns Bayesian learning and graphical models classification dimensionality reduction feature selection and extraction distance based methods and kernels ensemble methods graph and tree mining large scale distributed and parallel mining and learning multi relational mining and learning multi task learning natural language processing online learning and data streams privacy and security rankings and recommendations reinforcement learning and planning rule mining and subgroup discovery semi supervised and transductive learning sensor data sequence and string mining social network mining spatial and geographical data mining statistical methods and evaluation time series and temporal data mining and transfer learning

Relationships Discovering The Missing Links Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Relationships Discovering The Missing Links**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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