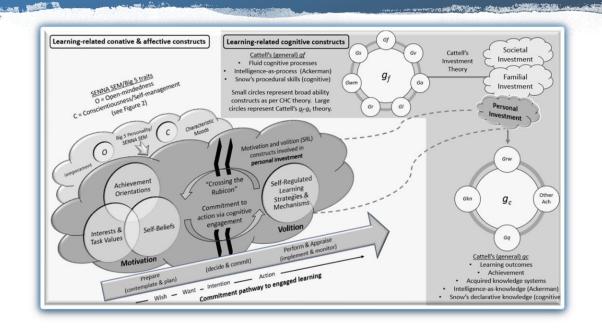
The Model of Achievement Competence Motivation (MACM): The motivation domains defined

(K. McGrew 01-06-2021)



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These slides are provided as supplements to *The Model of Achievement Competence Motivation (MACM): Standing on the shoulders of giants* (McGrew, in press, 2021—for special issue on motivation in *Canadian Journal of School Psychology*). The slides in this PPT/PDF module can be used without permission for educational (not commercial) purposes.

The Model of Achievement Competence Motivation (MACM): The motivation domains defined (K. McGrew 01-06-2021)

This is the third in the MACM series of on-line PPT modules. The first, the Introduction to the model is available at:

https://www.slideshare.net/iapsych/the-model-of-achievementcompetence-motivation-macm-part-a-introduction-of-series

The second, the Model Overview is available at:

https://www.slideshare.net/iapsych/the-model-of-achievement-competence-motivation-macm-part-b-an-overview-of-the-model

Learning-related conative constructs

Motivation

Learning-related affective constructs

More distal

Motivation as a set of key questions

Do I want to do this activity? Why do I want to do this activity? What are my goals for this activity?

Is this activity of interest to me? Is this activity worth the effort?

Can I be successful on this activity? Am I capable of doing this activity? Can I control my success on this activity?

What do I need to do to succeed at this activity? How am I doing on this activity? What do I need to do differently?

Achievement Orientations

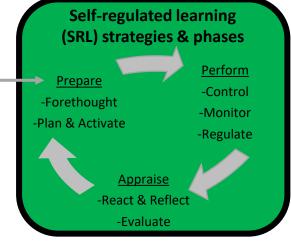
-Intrinsic Motivation
-Academic Goal Orientation
-Academic Motivation
-Academic Goal Setting

Interests and Task Values

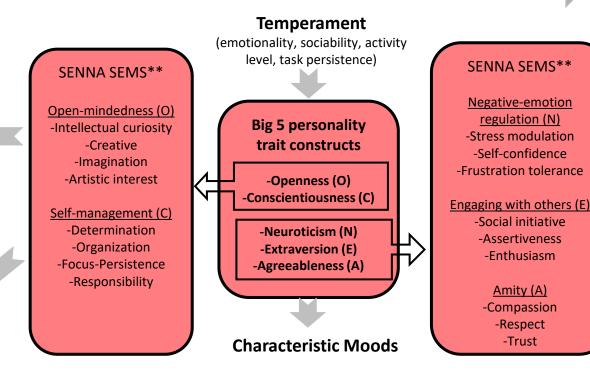
- -Need for Cognition
 -Academic Interests
 -Academic Values
 - **Self-Beliefs**

-Locus of Control (control)
-Academic Ability Conception (control)
-Academic Self-Efficacy (competence)
-Academic Self-Concept (competence)

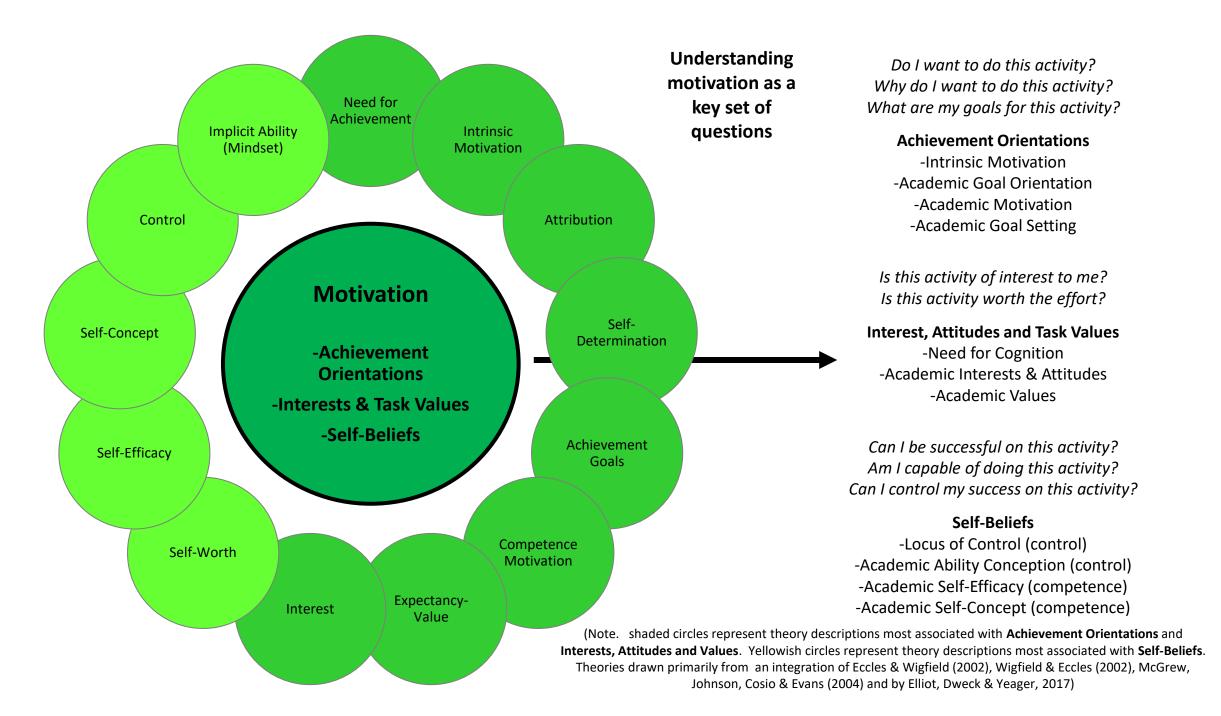
Volition*



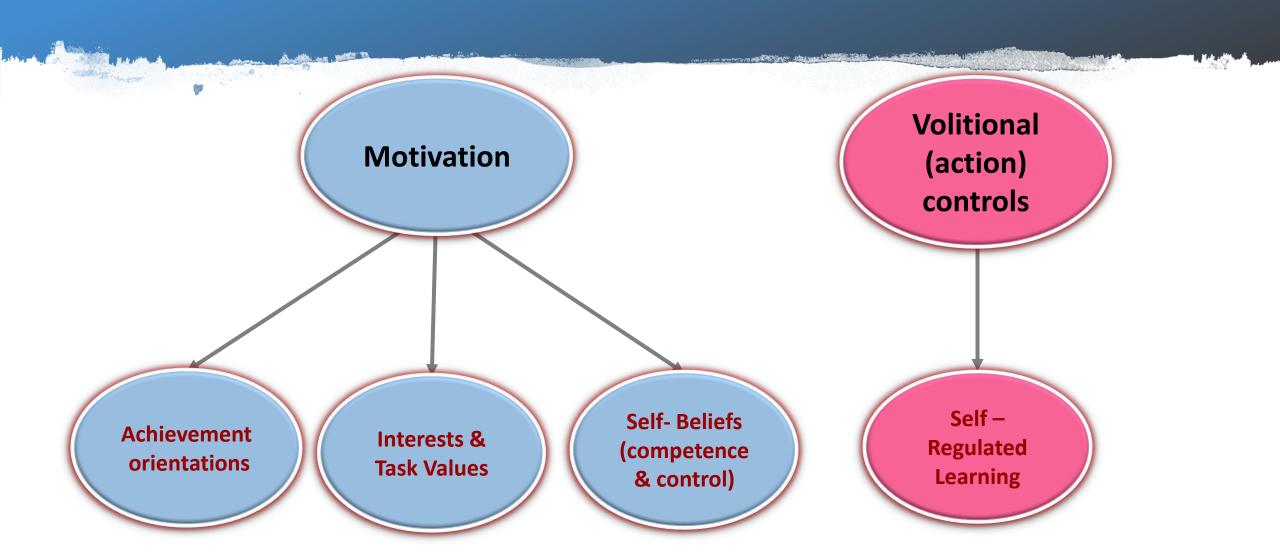
More proximal Relative degree of influence on learning



- -Bold font designates constructs or domains drawn or adapted from Richard Snow's model of aptitude (Corno et al, 2002).
- -Wide shaded arrows represent causal relations or cyclical phase stages.
- *Snow model included "conative styles" under volition. This construct domain is not included in the MACM model given the lack of robust validity research regarding work and learning styles.
- ** SENNA SEMS = SENNA social-emotional skills measurement scale and model.



MACM currently addresses two major conative domains of learner characteristics





Motivation: Question Set # 1



Do I want to do this activity?

Why do I want to do this activity?

What are my goals for this activity?

"Is this activity of interest to me?"

"Is this activity worth the effort?"

Achievement orientations

Interests & Task Values **Achievement orientations**

Achievement orientations: Motivational processes during the preparatory, deliberation or pre-decisional phase of learning that are primarily focused on the source of motivation (e.g., goals and incentives) that contributes to a readiness to act. Processes, during the wish--->want--->intention--->action commitment stages, that focus primarily on selecting goals (i.e., do I want to do this activity?).

Achievement orientations

Intrinsic Motivation: When a person engages in an activity because they are interested in and enjoy the activity (e.g., they perform the activity **for the sake of doing it**—for the enjoyment, fun or pleasure) and not because the activity will produce a reward, gain or result in the avoidance of a negative consequence.

Academic Goal Orientation: A person's set of beliefs that reflect the **reasons why** they approach and engage in academic learning tasks. A **performance goal orientation** reflects a concern for personal ability, a normative social comparison with others, preoccupation with the perception of others, and a need to avoid looking incompetent. A **learning or mastery goal orientation** reflects a focus on task completion and understanding, learning, mastery, solving problems, and developing new skills.



Academic Motivation: A person's desired hope for success (as reflected in approach, persistence, and level of interest) in academic subjects when competence is judged against a standard of performance or excellence. Can also involve an implicit or explicit desire to avoid negative outcomes and associated emotions (fear of failure).

Academic Goal Setting: A person's ability to set and prioritize appropriate and realistic short-(proximal) and long-term (distal) academic goals that serve to direct attention, effort, energy, and persistence toward goal-relevant activities (and way from goal-irrelevant activities). (May be part of the prepatory phase of self-regulated learning instead.

Achievement Orientations: Goal Orientation Research Ongoing: Two of Many Research Syntheses

Educ Psychol Rev (2007) 19:141–184 DOI 10.1007/s10648-006-9012-5

ORIGINAL ARTICLE

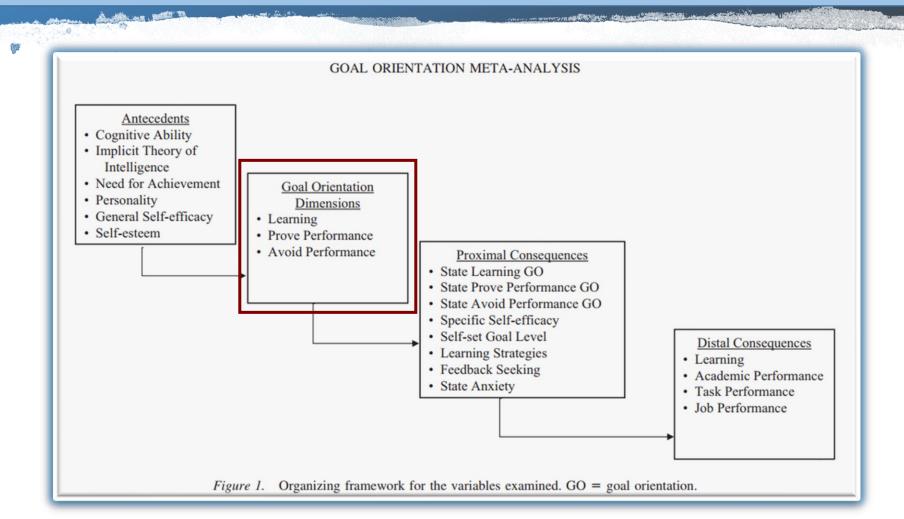
The Contributions and Prospects of Goal Orientation Theory

Avi Kaplan · Martin L. Maehr

Journal of Applied Psychology 2007, Vol. 92, No. 1, 128-150 Copyright 2007 by the American Psychological Association 0021-9010/07/\$12.00 DOI: 10.1037/0021-9010.92.1.128

A Meta-Analytic Examination of the Goal Orientation Nomological Net

Stephanie C. Payne and Satoris S. Youngcourt Texas A&M University J. Matthew Beaubien Aptima, Inc. **Academic Goal Orientation:** A person's set of beliefs that reflect the reasons why they approach and engage in academic learning tasks. A **performance goal orientation** reflects a concern for personal ability, a normative social comparison with others, preoccupation with the perception of others, and a need to avoid looking incompetent. A **learning or mastery goal orientation** reflects a focus on task completion and understanding, learning, mastery, solving problems, and developing new skills.



Achievement orientations

A 3×2 Achievement Goal Model

Andrew J. Elliot University of Rochester and University of Munich Kou Murayama and Reinhard Pekrun University of Munich

Definition Absolute Intrapersonal Interpersonal (self) (other) (task) Positive Task-Self-Other-(approaching approach approach approach success) goal goal goal Valence Negative Self-Other-Task-(avoiding avoidance avoidance avoidance failure) goal goal goal

Figure 1. The 3×2 achievement goal model. Definition and valence represent the two dimensions of competence. Absolute, intrapersonal, and interpersonal represent the three ways that competence may be defined; positive and negative represent the two ways that competence may be valenced.

This model is composed of the following goals: a taskapproach goal focused on the attainment of task-based competence (e.g., "Do the task correctly"), a task-avoidance goal focused on the avoidance of task-based incompetence (e.g., "Avoid doing the task incorrectly"), a self-approach goal focused on the attainment of self-based competence (e.g., "Do better than before"), a self-avoidance goal focused on the avoidance of self-based incompetence (e.g., Avoid doing worse than before"), an other-approach goal focused on the attainment of other-based competence (e.g., "Do better than others"), and an other-avoidance goal focused on the avoidance of other-based incompetence (e.g., "Avoid doing worse than others").

Interests & Task Values

Interests & task values. Motivational processes during the preparatory, deliberation or pre-decisional phase of learning that are focused primarily on the reasons for selecting goals that contributes to a readiness to act. Processes, during the wish-->want-->intention-->action commitment stages, that focus primarily on the reasons for selecting goals (i.e., why do I want to do this activity?).

MOTIVATIONAL BELIEFS, VALUES, AND GOALS

Jacquelynne S. Eccles and Allan Wigfield

Institute for Social Research, University of Michigan, Ann Arbor, Michigan 48106; e-mail: jeccles@isr.umich.edu

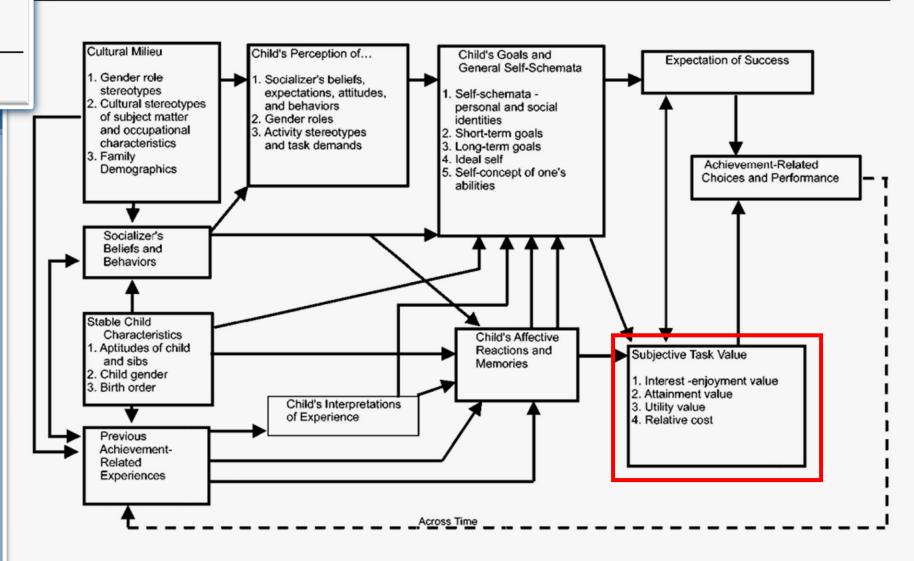


Figure 1 The Eccles et al. expectancy-value model of achievement.

Interests & Task Values

Need for Cognition: A person's interest, desire, or inclination to engage in higher-level effortful cognitive or mental activities which focus on making sense of the world through a deep (vs surface level) conceptual understanding of information and its relations to other information or concepts. A disposition towards appreciating, seeking, acquiring, thinking about, and reflecting back on information to make sense of stimuli. Enjoyment of the process of thinking, not necessarily the mastery of a specific task. **Thinking for the sake of thinking...** the tendency to engage in and enjoy thinking.

Interest & Task Values

Academic interests. A person's relatively stable or enduring predisposition, positive affective orientation, preference for (want) certain specific academic content or task domains. **Personal interest** reflects a relatively stable or enduring predisposition, evaluative orientation, and tendency to persevere when working on certain specific content or task domains. **Situational interests** (spur-of-the-moment interests) are often triggered "in the moment".

Academic values: A student's desire, preference, or "wanting" for certain academic goals and outcomes, typically differentiated as valued for the sake of enjoyment or interest (i.e., intrinsic), importance (e.g., value of performing well on a specific task), utility (value for one's future), or cost.







Motivation Science

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http://dx.doi.org/10.1037/mot0000204

Construction and Validation of the Interest Development Scale

Jordan D. Boeder and Elyse L. Postlewaite Claremont Graduate University K. Ann Renninger Swarthmore College

Susanne E. Hidi University of Toronto

There is a need to be able to assess adult interest as a variable that can develop. In contrast to vocational interest measures in which interest is assessed as a stable, trait-like characteristic of a person, the Interest Development Scale (IDS) assesses interest as a cognitive and motivational variable that develops (Hidi & Renninger, 2006). Three studies are reported on the construction and validation of the IDS, a domain general assessment of adult interest development. In each, the participant group was drawn from the diverse Amazon Mechanical Turk (MTurk), and interest was not restricted to a specific domain. Using exploratory factor analysis and parallel analysis, we used Study 1 (n=348) to identify items and underlying factors. These factors are information seeking, motivation to reengage, persistence, self-regulation, and value. Results from Study 2 (n=515) confirmed the factor structure identified in Study 1 and examined convergent, discriminant, and concurrent validity of the items. Findings demonstrated that the IDS was a reliable and valid measure of domain-general interest for adults. In Study 3 (n=103), results from mixed methods further revealed that the IDS differentiated between earlier and later phases of interest development. The factor motivation to reengage differentiated among the three phases studied, and the other 4 factors distinguished between earlier and later phases of interest.

Keywords: interest development, interest assessment, four-phase model, scale development, validity

When individuals develop an interest, they voluntarily reengage with that content, and often begin to self-identify with others who also pursue it (see Renninger & Hidi, 2016). They search for relevant information, continue to seek deeper understanding, and persevere, even when challenged (e.g., Azevedo, 2015; Hagay & Baram-Tsabari, 2011; Lakanen & Isomöttönen, 2018). They are also involved in meaningful learning, as they are more attentive, willing to expend greater effort, able to pursue and realize goals, and better able to develop and effectively use strategies...

Interests & Task Values





Motivation Science

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Keywords: interest development, interest assessment, four-phase model, scale development, validity

	Phases of Interest Development			
	Less-Developed (Earlier)		More-Developed (Later)	
	Phase I: Triggered Situational Interest	Phase 2: Maintained Situational Interest	Phase 3: Emerging Individual Interest	Phase 4: Well-Developed Individual Interest
Definition	Psychological state resulting from short-term changes in cognitive and affective processing associated with a particular class of content	Psychological state that involves focused attention to a particular class of content that reoccurs and/or persists over time	Psychological state and the beginning of relatively enduring predisposition to seek reengagement with a particular class of content over time	Psychological state and a relatively enduring predisposition to reengage a particular class of content over time
Learner Characteristics	Attends to content, if only fleetingly May or may not be reflectively aware of the experience May need support to engage from others and through instructional design May experience either positive or negative feelings May not persevere when with confronted with difficulty May simply want to be told what to do	Reengages content that previously triggered attention Is developing knowledge of content Is developing a sense of the content's value Is likely to be able to be supported by others to find connections to content based on existing skills, knowledge, and/or prior experience Is likely to have positive feelings May not persevere when with confronted with difficulty May want to be told what to do	Is likely to independently reengage content Has stored knowledge and stored value Is reflective about the content Is focused on their own questions Has positive feelings May not persevere when with confronted with difficulty May not want feedback from others	Independently reengages content Has stored knowledge and value Is reflective about the content Is likely to recognize others' contributions to the discipline Self-regulates easily to reframe questions and seek answers Has positive feelings Can persevere through frustration and challenge in order to meet goals Appreciates and may actively seek feedback

Figure 1. The four phases of interest development (Hidi & Renninger, 2006): Definitions and learner characteristics, revised. From *The Power of Interest for Motivation and Engagement* (Table 1.2, p. 13) by K. A. Renninger & S. E. Hidi, 2016, New York, NY: Routledge. Copyright 2015 by Taylor and Francis. Reprinted with permission.

Interests & Task Values



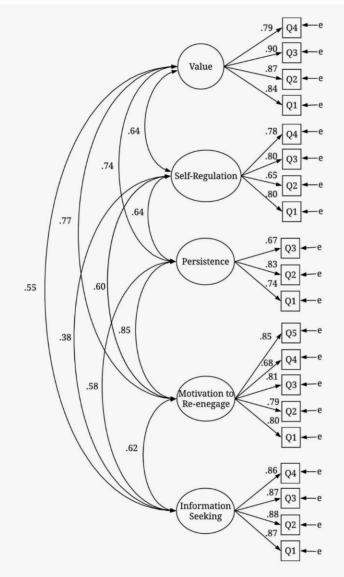


Figure 2. Measurement model of IDS in Study 1. All factor loadings are standardized and significant at p < .001.

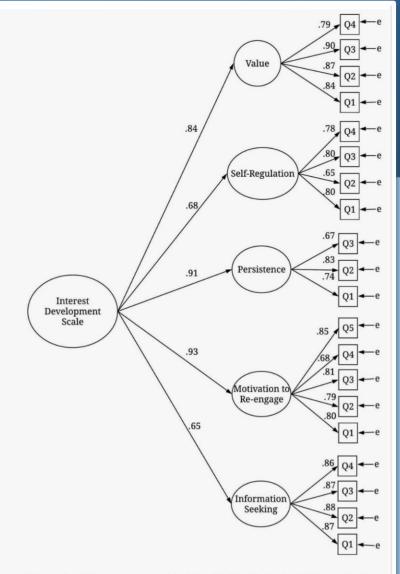
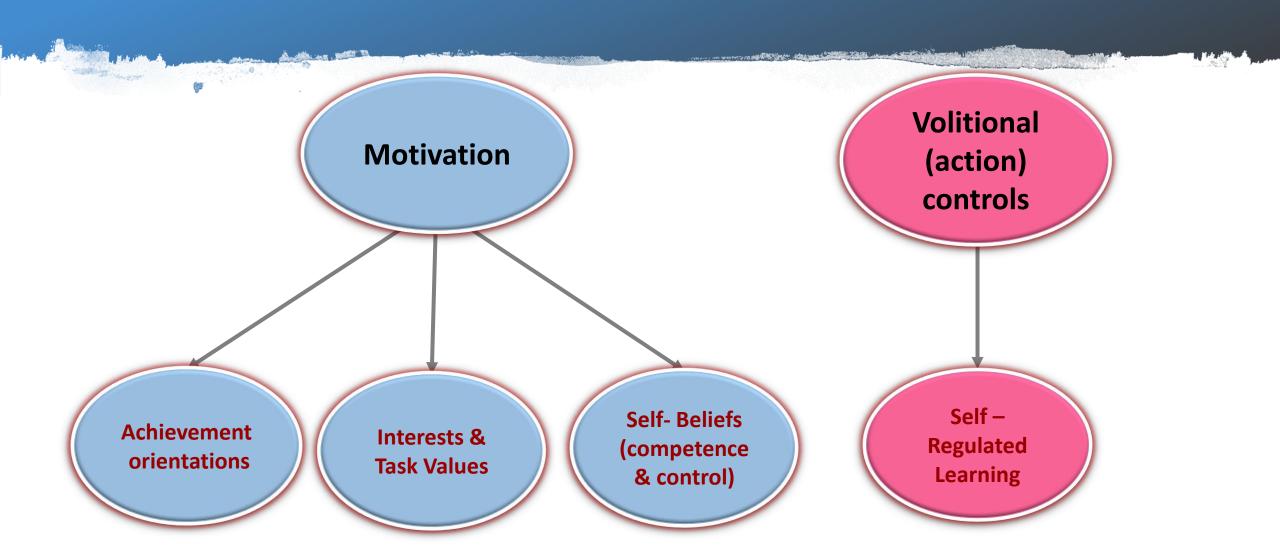


Figure 3. Higher order model of the IDS in Study 1. All factor loadings are standardized and significant at p < .001.

MACM currently addresses two major conative domains of learner characteristics





Motivation: As Three Sets of Key Questions



Can I be successful on this activity?

Can I control my success on this activity?

Am I capable of doing this activity?





Self-beliefs: Motivational processes during the preparatory, deliberation or pre-decisional phase of learning that are focused primarily on the expectancies for accomplishing goals that contributes to a motivational readiness to act. Processes, during the wish-->want-->intention-->action commitment stages, that focus primarily on self-generated perceptions of competence to perform and the ability to control success on an activity (i.e., am I capable of doing this activity?; can I control my success on this activity?).



Academic Self-Efficacy (competence). A person's confidence (conviction) in their ability to organize, execute, and regulate performance in order to solve or accomplish academic problems at a designated level of skill and ability.

Academic Ability Conception (control). A person's thinking mindset. A person's beliefs, self-evaluation, and self-awareness (i.e., a thinking disposition) regarding their academic-related skills and abilities. The distinction between persons who hold "entity/fixed" versus "incremental/growth" mindsets is of particular interest in contemporary research.

Self Beliefs: Self-Efficacy and Other Self-Beliefs

Zimmerman, Schunk & DiBenedetto (2017)

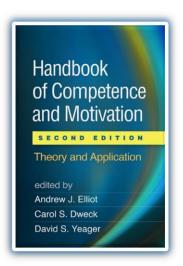


TABLE 17.1. Comparison of Self-Efficacy Beliefs and Other Self-Beliefs						
	Types of self-belief					
Comparison criteria	Self-efficacy beliefs	Other self-beliefs				
Type of self-judgment	Cognitive judgments of capability	Feelings of competence, adequacy, and affect				
Type of self-evaluative standard	Confidence in goal mastery	Social/normative comparisons				
Temporal focus of self-judg- ments	Predicted generative capability	Attained competence				
Relation to task outcomes	Context-dependent	Domain-dependent				
Reactions to experience	Adaptively malleable	Trait-like resistance				



Academic Self-Efficacy (competence). A person's confidence (conviction) in their ability to organize, execute, and regulate performance in order to solve a problem or accomplish a task at a designated level of skill and ability. **Academic self-efficacy** refers to a person's conviction that they can successfully achieve at a designated level in a specific academic subject area.

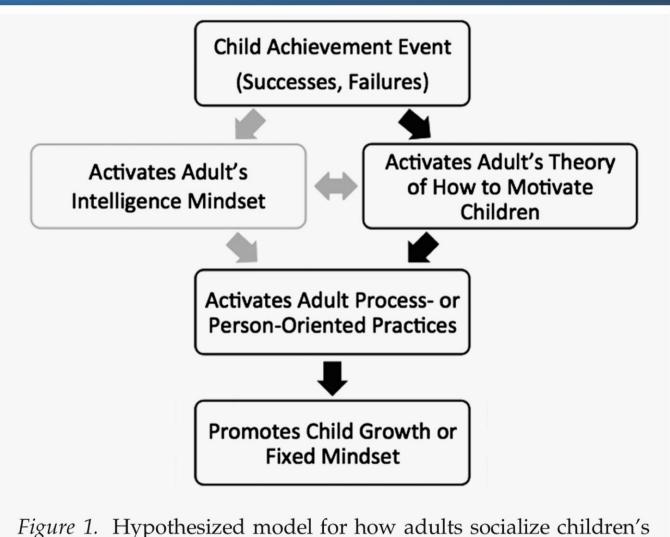
Academic Ability Conception (control). A person's thinking mindset. A person's beliefs, self-evaluation, and self-awareness (i.e., a thinking disposition) regarding their academic-related skills and abilities. The distinction between individuals who hold "entity/fixed" versus "incremental/growth" mindsets is of particular interest in contemporary research

Ability Conceptions or Fixed/Growth Mindsets:

Research Implicates the Socialization Process Mediated by Adults

growth and fixed mindsets.







Locus of Control (control). A person's belief about the perceived causes (internal vs. external) for their success or failure. An internal attribution orientation is when a person perceives their success or failure as contingent on their own behavior and due to relatively unchanging personal characteristics. An external orientation is when success or failure is perceived as being under the control of others, unpredictable, and the result of luck, chance, or fate.

Academic Self-Concept (competence). Self-concept is a person's general overall view of self, based on self-knowledge and evaluation of **value or worth of one's own capabilities**, across a multidimensional set of domain specific-perceptions. **Academic self-concept** is a person's perception of self-efficacy and satisfaction in academic subjects.

Self-Beliefs (competence & control)

Some self concept definitions in the literature

"Research often adopts a cognitive approach, where the selfconcept is defined as a **cognitive schema** that is "an **organized knowledge structure** that contains beliefs about one's attributes as well as episodic and semantic memories about the self and that controls the processing of self-relevant information" (Campbell et al., 2000, p. 67) Self-Beliefs (competence & control)

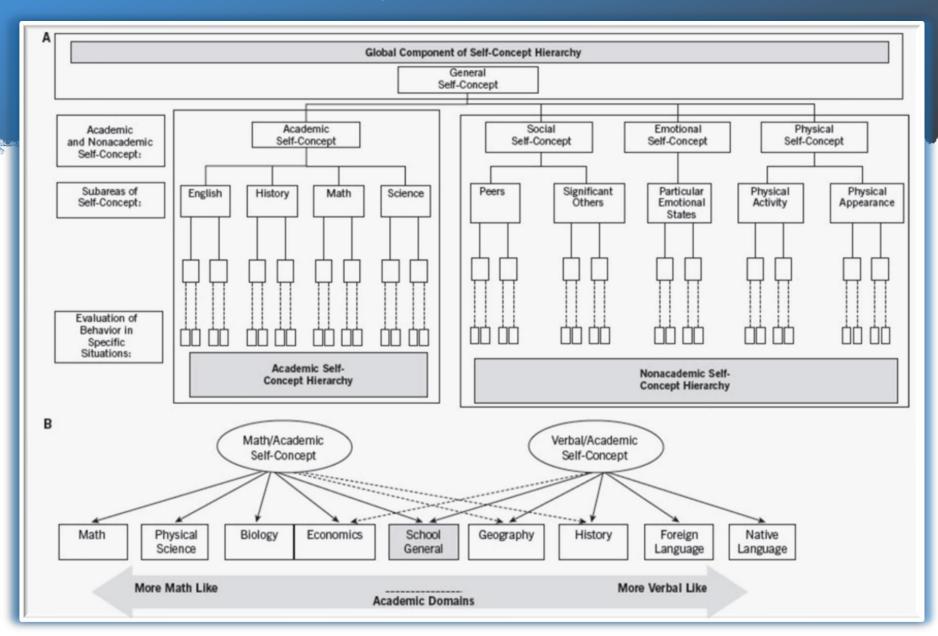
Some self concept definitions in the literature

"...an important distinction has been made between two main features of the self-concept: contents and structure (Campbell et al., 1996, 2000). The contents are typically divided into knowledge and evaluative components.

Knowledge components involve beliefs about one's attributes (e.g. personality traits, values) and evaluative components include the positivity of one's self-beliefs and self-esteem. The structure of the self-concept refers to how the contents of the self-concept (i.e. knowledge and evaluative components) are organized" (Pomerance et al., 2020)

Self Beliefs: Self-Concept Research is Massive

Shavelson model and Marsh-Shavelson revision



Self Beliefs: Academic Self-Concept Stability





Journal of Educational Psychology

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2020, Vol. 112, No. 8, 1614-1631 ttp://dx.doi.org/10.1037/edu0000448

Disentangling Different Sources of Stability and Change in Students' Academic Self-Concepts: An Integrative Data Analysis Using the STARTS Model

Malte Jansen
Institute for Educational Quality Improvement (IQB), Berlin,
Germany, and Centre for International Student Assessment (ZIB),
Munich, Germany

Oliver Lüdtke and Alexander Robitzsch Leibniz Institute for Science and Mathematics Education, Kiel, Germany, and Centre for International Student Assessment (ZIB), Munich, Germany Academic self-concept (ASC) is characterized by the dual nature of stability and change. That is, students strive for consistency in their self-concept but also receive achievement feedback that leads to changes in ASC. Only a few previous studies have scrutinized the stability of ASC. The STARTS model (Stable, AutoRegressive Trait, and State) disentangles three sources of variation that underlie individual differences in a construct across time: (a) a time-invariant stable component, (b) a time-varying, partly stable component, and (c) an occasion-specific state component. This study is the first to analyze the stability of ASC with the STARTS model. Rather than selecting a single data set, we followed the idea of using an integrative data analysis (IDA) and applied the STARTS model to 11 longitudinal studies that included more than 20,000 students. Our results show that there is a substantial proportion of stable trait variance in both mathematical (26%) and verbal self-concept (24%)—that is, some sources of individual differences in ASC are completely stable (e.g., genes, preschool environment). The largest part of the variation in ASC across time could be attributed to factors that systematically changed in an autoregressive way (e.g., achievement feedback). Mathematical self-concept showed higher stability than verbal self-concept as a result of a smaller proportion of occasion-specific state variance. The IDA also revealed substantial heterogeneity across studies. We argue that disentangling stable and temporally changing aspects of ASC is important not only for informing theory but also for assessing the potential of psychological interventions.

Educational Impact and Implications Statement

Promoting the academic self-concept of students, that is, their confidence in their own academic abilities, is an important educational goal (a) in and of itself and (b) because students with higher self-concepts have been shown to have more successful school careers. In this study, we focused on the stability of academic self-concept—that is, the extent to which it is a student characteristic that is stable or malleable and changing over time. Our study is the first to employ the STARTS model to academic self-concept research showing that there is a completely academic stable self-concept component, but most of the variation over time is only partly stable. Our results further suggest that because academic self-concept changes over students' school careers, it is thus malleable and can be targeted by specific interventions and influenced by teaching practices. Finally, self-concept in mathematics was found to be more stable than self-concept in the language of instruction. One interpretation may be that students hold more fixed beliefs or mindsets about mathematical ability; such beliefs could be challenged by teachers. Overall, our results contribute to the understanding of academic self-concept, which is one of the most important motivational factors in students' school careers.

Keywords: academic self-concept, integrative data analysis, stability, STARTS model, state-trait models

Self Beliefs: Academic Self-Concept & Achievement



It is well-documented that academic achievement is associated with students' self-perceptions of their academic abilities, that is, their academic self-concepts. However, low-achieving students may apply self-protective strategies to maintain a favorable academic self-concept when evaluating their academic abilities. Consequently, the relation between achievement and academic self-concept might not be linear across the entire achievement continuum. Capitalizing on representative data from three large-scale assessments (i.e., TIMSS, PIRLS, PISA; N=470,804), we conducted an integrative data analysis to address nonlinear trends in the relations between achievement and the corresponding self-concepts in mathematics and the verbal domain across 13 countries and 2 age groups (i.e., elementary and secondary school students). Polynomial and interrupted regression analyses showed nonlinear relations in secondary school students, demonstrating that the relations between achievement and the corresponding self-concepts were weaker for lower achieving students than for higher achieving students. Nonlinear effects were also present in younger students, but the pattern of results was rather heterogeneous. We discuss implications for theory as well as for the assessment and interpretation of self-concept.

Educational Impact and Implications Statement

The present study significantly advances the understanding of how performance on a standardized achievement test in a certain academic domain is related to students' corresponding academic self-concept. In representative student samples, we show that the relations between achievement and self-concepts in mathematics and the verbal domain can be better approximated by nonlinear relations, demonstrating weaker relations for lower achieving students than for higher achieving students in secondary school (and to some extent also in elementary school). Practitioners should be aware that there is no general linear trend between students' achievement and their corresponding academic self-concepts and should take this into consideration when assessing and interpreting students' academic self-concepts in counseling contexts.

Keywords: academic achievement, academic self-concept, mathematics, reading, nonlinear relations

Self Beliefs: Academic Self-Concept Stability Research via STARTS Model

STARTS model (Stable Trait, AutoRegressive Trait, and State; see Kenny & Zautra, 1995, 2001) to disentangle different sources of construct trait stability

Might be useful to investigate and partition the **state-trait variance** components of MACM model constructs

 Stable, partly stable, and occasion-specific components of constructs

Self Confidence: The Amazon of the "jingle jangle jungle"



Self-concept content and structure: motivation and performance implications

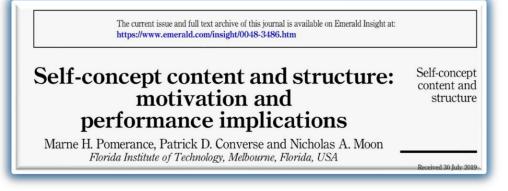
Marne H. Pomerance, Patrick D. Converse and Nicholas A. Moon Florida Institute of Technology, Melbourne, Florida, USA

Self-concept content and structure

Received 30 July 201

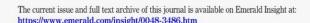
"CSE is defined as 'fundamental premises that individuals hold about themselves and their functioning in the world' (Judge et al., 1998, p. 168). CSE involves four traits: selfesteem, generalized self-efficacy, locus of control and emotional stability (Judge and Bono, 2001). Although CSE and associated characteristics are often seen as stable, there are conceptual considerations and empirical evidence suggesting that CSE varies within-person."

Self Confidence: The Amazon of the "jingle jangle jungle"



"SCC (self concept clarity) is defined as "the extent to which the contents of an individual's self-concept (e.g. perceived personal attributes) are clearly and confidently defined, internally consistent, and temporally stable" (Campbell et al., 1996, p. 141)."

Self Confidence: The Amazon of the "jingle jangle jungle"



Self-concept content and structure: motivation and performance implications

Marne H. Pomerance, Patrick D. Converse and Nicholas A. Moon Florida Institute of Technology, Melbourne, Florida, USA

Self-concept content and structure

Received 30 July 2019

"CSE is defined as 'fundamental premises that individuals hold about themselves and their functioning in the world' (Judge et al., 1998, p. 168). CSE involves four traits: selfesteem, generalized self-efficacy, locus of control and emotional stability (Judge and Bono, 2001). Although CSE and associated characteristics are often seen as stable, there are conceptual considerations and empirical evidence suggesting that CSE varies within-person."



Self-concept content and structure: motivation and performance implications

Marne H. Pomerance, Patrick D. Converse and Nicholas A. Moon Florida Institute of Technology, Melbourne, Florida, USA

project 20 July 2010

Self-concept

content and

structure

Integrating self-concept content, self-concept structure and motivational orientation

A major focus of this research is how, at the withinperson level, self-concept structure (SCC) interacts
with content (CSE) to influence motivational
orientation in performance contexts. To further
illustrate the nature of the two focal self-concept
constructs and explain how they may interact to
influence motivational orientation, we draw from
and extend Greenwald et al.'s (2002) unified theory
of implicit social cognition.

The current issue and full text archive of this journal is available on Emerald Insight at: https://www.emerald.com/insight/0048-3486.htm

Self-concept content and structure: motivation and performance implications

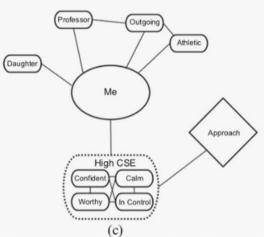
Marne H. Pomerance, Patrick D. Converse and Nicholas A. Moon Florida Institute of Technology, Melbourne, Florida, USA

Received 30 July 2019

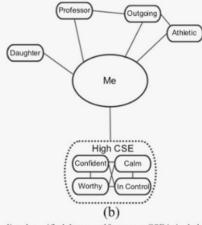
Self-concept content and structure Daughter Me Outgoing

a)

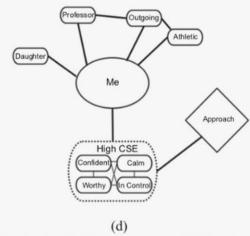
Note(s): Associations between the concept of self (the "Me" concept) and the role/trait concepts of athletic, outgoing, daughter, and professor



Note(s): Extending the unified theory: concept activation. Activating certain aspects of the self-concept may trigger activation of approach or avoidance motivational orientation

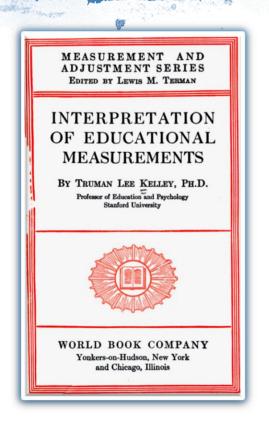


Note(s): Extending the unified theory: self-concept. CSE is included as the focal aspect of self-concept



Note(s): Extending the unified theory: association strength. SCC can be understood in terms of association strength, where the intrapersonal process of concept activation may operate differently when SCC is low versus high. Here, higher SCC entails stronger associations/within-person relationships

The framework should use clear and consistent construct definitions



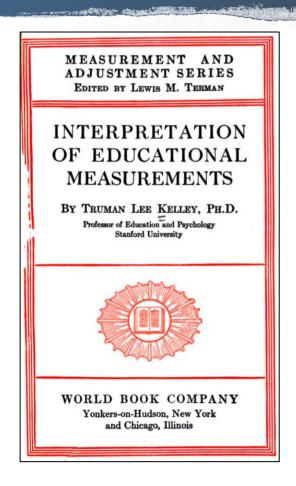
The jingle-jangle-jungle is when erroneous assumptions are made that two different things are the same because they have the same name (jingle fallacy) or are identical or almost identical things are different because they are labeled differently (jangle fallacy).

(Schneider & McGrew, 2018)

(Kelly, 1927)







APA Dictionary of Psychology

self-confidence

n.

- 1. self-assurance: trust in one's abilities, capacities, and judgment. Because it is typically viewed as a positive attitude, the bolstering of self-confidence is often a mediate or end goal in psychotherapy.
- 2. a belief that one is capable of successfully meeting the demands of a task.
- -self-confident adj.



Handbook of Competence and Motivation SECOND EDITION Theory and Application edited by Andrew J. Elliot Carol S. Dweck David S. Yeager

Self-Confidence

The Oxford Advanced Learner's Dictionary defines self-confidence as a feeling of trust in one's abilities, qualities, and judgment—as in confidence in oneself and one's abilities. In a sporting context, Horn (2004) defined self-confidence as positive self-beliefs about abilities or expectations about being able to achieve success. She distinguishes between self-confidence in relation to winning (outcome); performance in relation to standards; self-regulation of thoughts, emotions, and resilience; and physical skills. In psychology more generally, selfconfidence is often operationalized as self-esteem, self-efficacy, self-concept, positive self-beliefs, and optimism. In a recent series of studies, Stankov (see overview by Stankov & Lee, 2015) developed an alternative perspective of confidence, as a mindset of having done well on a previously completed task (e.g., "I am sure that I have done this correctly"), in contrast to perceptions of self-efficacy ("I can do this") in relation to a future activity. This notion of confidence in relation to an activity that has already been performed, such as the likelihood or subjective probability that one correctly answered each question on an achievement test, is different to notions predicting what one might be able to accomplish on a specific task.

In marked contrast to domain-specific measures of self-concept, Stankov and Lee (2015) present evidence that confidence is a global construct that generalizes over diverse activities, somewhat akin to the "big-G" factor for cognitive tasks, and that it is empirically distinguishable from other self-belief constructs such as self-efficacy, self-concept, and anxiety. Not surprisingly, perhaps, confidence in relation to each item on a test more accurately predicts test performance than do other self-belief items, but confidence remains a significant predictor of subsequent school grades 3 months later, even after researchers control for test scores and other self-belief constructs. However, although more research into confidence as defined by Stankov and Lee is clearly warranted, it seems to be conceptually and operationally distinct from other self-belief constructs that are used to represent competence self-perceptions.







Low Correlations between Intelligence and Big Five Personality Traits: Need to Broaden the Domain of Personality

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Received: 26 February 2018; Accepted: 24 April 2018; Published: 1 May 2018



Abstract: The correlations between the measures of cognitive abilities and personality traits are known to be low. Our data based on the popular Big Five model of intelligence show that the highest correlations (up to r = 0.30) tend to occur with the Openness to Experience. Some recent developments in the studies of intelligence (e.g., emotional intelligence, complex problem solving and economic games) indicate that this link may become stronger in future. Furthermore, our studies of the processes in the "no-man's-land" between intelligence and personality suggest that the non-cognitive constructs are correlated with both. These include the measures of social conservatism and self-beliefs. Importantly, the Big Five measures do not tap into either the dark traits associated with social conservatism or self-beliefs that are known to be good predictors of academic achievement. This paper argues that the personality domain should be broadened to include new constructs that have not been captured by the lexical approach employed in the development of the Big Five model. Furthermore, since the measures of confidence have the highest correlation with cognitive performance, we suggest that the trait of confidence may be a driver that leads to the separation of fluid and crystallized intelligence during development.

Keywords: intelligence; personality; Big Five; conservative syndrome; self-beliefs



Contents lists available at ScienceDirect

Intelligence



Self-beliefs: Strong correlates of mathematics achievement and intelligence



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ARTICLE INFO

Article history: Received 1 August 2016 Received in revised form 6 December 2016 Accepted 7 December 2016 Available online 15 December 2016

Keywords: Predictability gradient Confidence Self-efficacy Anxiety Investment theory

ABSTRACT

In this paper we summarize recent findings from large-scale international surveys (PISA and TIMSS) of relevance to the predictability gradient hypothesis (Stankov, 2013). Non-cognitive measures are divided into two groups on the basis of their correlation with mathematics achievement. Many have low (r < 0.20) correlations. The best predictors of cognitive performance are a cluster of self-beliefs consisting of confidence, self-efficacy, anxiety, and self-concept. These appear to be the most potent influences underpinning Cattell's (1987) investment theory of fluid and crystallized intelligence. Self-beliefs affect cognitive performance either as impediments (anxiety) or facilitators (good calibration of self-efficacy and confidence). This information about the role of self-beliefs can inform future efforts at intervention.

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Educational Psychology, 2014
Vol. 34, No. 1, 9–28, http://dx.doi.org/10.1080/01443410.2013.814194



Confidence: the best non-cognitive predictor of academic achievement?

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Stankov, L., Kleitman, S., and Jackson, S. A. (2014). Measures of the Trait of Confidence. In G. J. Boyle, D. H. Saklofske and G. Matthews (Eds.),

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Measures of the Trait of Confidence

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Factor Structure and Longitudinal Factorial Validity of the Core Self-Evaluation Scale

Exploratory Structural Equation Modeling

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Abstract: The personality high-order concept of core self-evaluations (CSE), which refers to a basic evaluation of one's worth, capability, and effectiveness, has attracted a lot of research interest. Yet little is known about the construct validity of the core self-evaluation scale (CSES) while information on its longitudinal factorial validity is wholly lacking. This study investigated the factor structure of the CSES using both confirmatory and exploratory factor analysis implemented in Mplus program. In addition, the factor loading invariance over time was investigated using exploratory structural equation modeling. Longitudinal data with three follow-ups over 2 years, gathered among university employees (n = 926 (T3)-2,137 (T1)), were used. The results showed that a two-factor solution comprising the sub-dimensions Internal and External self-evaluations fitted to the data better than the alternative factor models. The two-factor solution was also invariant across the three measurements. It is concluded that the CSES could be used as a two-dimensional instead of a one-dimensional scale. Splitting the scale into the two sub-dimensions of Internal and External self-evaluations revealed that the concept has a finer-grained structure than hitherto thought.

Keywords: core self-evaluations, factorial validity, longitudinal study, exploratory structural equation modeling

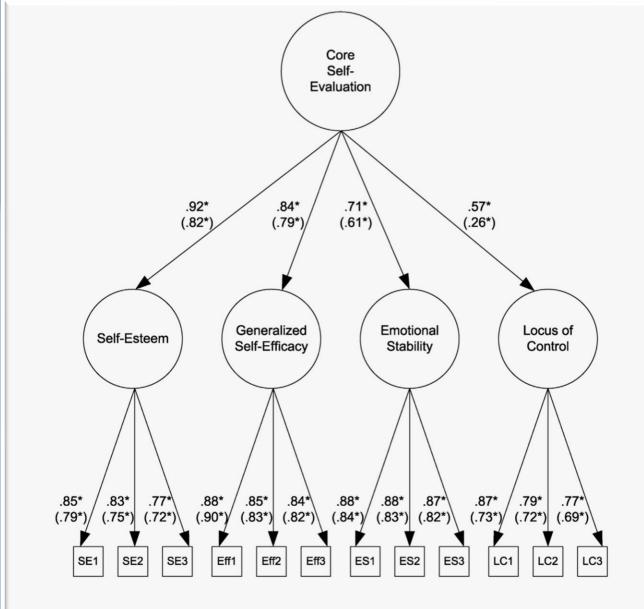
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- Locus of control
- Academic self-efficacy
- Academic self-concept
- Academic ability conception
-



Note: N = 201. Standardized factor loadings are reported in the figure. Values in the first row (second row, in parentheses) are before (after) social desirability was partialed out of the item parcels. * p < .05.