**Flattening the Hierarchy Curve: Adaptive Leadership during the Covid-19 Pandemic. A Case Study in an Academic Teacher Training College.**

1. On the introduction you have to explain agile leadership behavior during crisis  
2. Why you add aim s of the paper to the methodology section ? Aims must be at the end of introduction.  
3. What are the relaibility and validity levels of the research ? What did you do increase relaibility and validity levels of qualitative research section ?  
4. What is the normality level of Quatative resarch datas? How did you select analysis techniques ?  
5. Please check new articles about Leadership and COVID 19 from    
https://www.mdpi.com/journal/sustainability/special\_issues/Leadership\_Education\_Sustainability  
https://www.mdpi.com/journal/sustainability/special\_issues/Sustainable\_Education\_Systems?fbclid=IwAR3DpNy6DtNZk-3IzFYZj2AeKAjREjVWHa3VhgSshNGMCjVeqpS9plLHJZQ  
and make citation to them and last 10 year  papers .

1. The subject of the study is considered important in terms of contributing to the literature within the scope of ‘leadership in the crisis processes based on a current and common problem. In addition, it can be said that this study is appropriate in terms of the scope of the journal and its publication policies.

2. There is serious confusion in the study regarding the method. There are expressions that this study was conducted in ‘mixed research design’ and ‘case study model’. It was stated that the research was carried out in the case study model, but this study does not meet the case study criteria (The qualitative case study analysis is based on documents, protocols, and processes recorded in real time, ‘in page 13’). In this sense, it seems to be more suitable for the ‘document analysis’ criteria.

3. It can be said that the data collection tool used in collecting the quantitative data of the research has serious deficiencies regarding the sufficiency of validity and reliability studies (e.g., the questionnaire was reviewed for validity by three content experts holding doctorates in education). Also, some expressions used in the survey contain more than one content (e.g., how often was there personal dialogue among lecturers, colleagues, and college officials?).

4. In the research, the data analysis process, validity and reliability, sub-problems should be rearranged in a more detailed and understandable way, and the deficiencies should be completed.

5. Tables need to be rearranged according to APA 7 rules.

6. A more holistic method can be followed in explaining the table results. It is not common to write the results in items.

7. The concepts used in the figures can be made more compatible with leadership theories and concepts used in the literature.

8. Some statements need to be made clear and understandable in order for the study to be better understood by the readers.

9. The references should be rearranged in accordance with APA 7 rules.

10. In addition to these, the language of the study should be checked and a similar order of presentation should be made by examining previously published studies in this journal.

**Abstract**

The Covid-19 pandemic forced higher education institutions to adapt agility. The current research aims to examine how the leadership at the Ohalo teacher training College in Israel dealt with the crisis caused by the pandemic, during the college’s transition from routine activities on campus to remote teaching and learning when all activities were conducted remotely.

This study is an action research used a mixed-methods approach. The qualitative part is based on document analysis. Protocols, and processes recorded in real time. This section describes the decisions and processes undertaken by the college leadership. The quantitative section examines the college lecturers’ evaluations regarding these leadership decisions and the transition to Emergency Remote Teaching (ERT).

The study illustrates ***agile*** leadership behavior during crisis: in other words how adaptive leadership processes and agility were applied in dealing with the crisis.

המושג זמישות (הלחם של המילים זריזות וגמישות) מנהיגותית בזמן משבר מתייחס בעיקר למהירות וגמישות בתגובה שהתחייבה לנוכח משבר הקורונה . תהליכים אלו בוטאו בשינויים משמעותיים בדרך ההובלה, הניהול ויצירת שגרה ארגונית אחרת, ושונה לחלוטין במוסד האקדמי החינוכי. מצד שני, מבנים וכלים מוסדיים קיימים אפשרו מעבר זמיש והסתגלותי בעת משברית זו.

The research hypothesis, predicting a positive relationship between the college leadership’s decisions and lecturers’ positive evaluations regarding these decisions, was confirmed.

Previous research has given scant attention to the relationship between running an academic institution and application of principles of adaptive leadership during a crisis. This article presents a case study of adaptive leadership at an academic institution during the Covid-19 pandemic. The conclusions suggest that ensuring the continued functioning of an organization during a crisis requires skills and competencies reflecting multifaceted and adaptive leadership, agility, and direct channels of reciprocal, cooperative communication. Opportunities for initiative should be provided, and a consistent policy must be maintained that aims to “flatten the hierarchy curve”.

**Keywords:** Coronavirus (Covid-19), adaptive leadership, crisis, agility, teacher training

**Introduction**

The COVID-19 pandemic has forced organizations to undergo significant transformation, and changes. Rethinking key elements of their daily work processes and act in an agile manor, increase the use of technology to maintain operations whilst adhering to a changing landscape of guidelines and new procedures.

Routinely Institutions of higher education operate in a complex environment that includes regulatory involvement, teaching and learning. There are frequent and multiple changes in academic, technological, and bureaucratic realms. Even during routine times, there has been an increase in the frequency of changes and the degree of pressure experienced in academic institutions (Amirault & Visser, 2009). Moreover, Ta¸sçı and Titrek (2020 ), Higher education institutions, in particular, are in need of sustainable leadership to develop sustainable institutions. Thus, the key to sustainability in higher education institutions seems to be in line with leadership skills and perspectives. Therefore, we believe that leading such an institution requires an agile and supportive leadership strategy.

בחודשים האחרונים מאז פרוץ מגיפת הקורונה אנו עדים לפריחה מחקרית בתחום העוסק במנהיגות בזמן משבר. אולם, עד לעת האחרונה היה מחקר מועט בתחום זה...

There has been minimal research to date addressing the relationship between leadership at an academic institution and application of principles of adaptive leadership during a crisis. The current article seeks to make a modest contribution to this research gap by presenting a case study that demonstrates, in practical terms, what has been described in the theoretical literature on adaptive leadership. In particular, it examines adaptive leadership at a teacher training college as addressed the consequences of the Covid-19 pandemic.

The last global pandemic, the Spanish flu epidemic, occurred over a century ago, in 1918. At that time, research on leadership was in its infancy. While that epidemic is remembered in the pages of history, it left no insight as to the connection between crises and demonstrations of academic leadership. The current global pandemic of Covid-19 poses multiple complex challenges to institutions of higher education, which were forced to function under conditions of uncertainty. Alongside the health concerns, it became necessary to ensure the continued proper functioning of institutions. One of the many institutions affected is Ohalo College, the subject of the present case study. Ohalo College is an academic institution for the training of educators, located in the northern part of Israel.

In mid-March 2020, a general closure was imposed in Israel. The institution’s leadership decided to continue all activities, while making the necessary adjustments in light of the state of emergency and governmental restrictions. All activity was moved from classroom learning on campus to ERT (emergence remote teaching). This dramatic and agile transition affected the leadership team of 6 senior college officials, 700 courses, 130 lecturers, 40 members of the administrative staff, and 1500 students.

The current study analyzes these events and the resultant processes undertaken at the college. To the best of our knowledge, there have been few, if any, previous studies examining adaptive leadership processes in an academic organization during a global pandemic. We believe that this unique situation provides fertile ground for reflective research and learning in this field.

*Research Questions*

1. What traits were expressed by the Ohalo College leadership during the Covid-19 pandemic?
2. How did the lecturers evaluate the steps taken by the college administration?
3. What key insights can be deduced from this test case to design a model for beneficial leadership of an academic organization during a crisis?

**Theoretical Background**

A review of the literature relevant to this subject yields a theoretical framework resting on four key concepts: agility, leadership, adaptation, and crisis, as defined below.

*Agility*

It is first important to address our definition of agility: “agility” is one of the most important factors in the survival and development of business organizations in today’s dynamic environment. The major characteristic in this environment is change and uncertainty. We see agility as a key concept in the analysis of the various situations that emerged from the Covid-19 pandemic and the leadership’s responses to the crisis. Agility is a relatively new concept, originating in the high-tech industry, and applied in organizational theory and human resource management using a situational approach. “Agile governance” is a relatively new concept coined in the field of software engineering, and later expanded to organizational studies (Overby, Bharadwaj, & Sambamurthy, 2006). Agility refers to availability, flexibility, and speed of response. Agility in education refers to an approach that implements change, embraces innovation, and transcends traditional conservative patterns of conduct and thinking (Morien, 2018). These definitions were established before the outbreak of the Covid-19 pandemic. It has been previously noted that agility is vital for corporate survival in the contemporary dynamic social environment, which is characterized by change, uncertainty, ***rapid technological development***, increased risk, globalization, and the anticipation of privatization.

A recent study notes that Technological developments that have taken place in the 21st century have also affected higher education institutions. And there for it is important to focus in the ***sustainability leadership*** in the higher education sector and spot light on lifelong learning strategies applied, the difficulties faced, the experiences shared, and the sustainability practiced. ( Taşçı &Titrek,2020) . Agility creates a competitive advantage, enabling success in this organizational environment in the climate of covid 19 **.** It is important to note that the college examined in the present study is a teacher-training college under the auspices of the Israeli Ministry of Education and thus, generally speaking, belongs to the public sector. This sector is not usually among the first to adopt changes or undergo ground-breaking processes.

*Leadership*

Leadership is the most influential element of work engement because leaders establish a healthy work environment where employees feel more motivated and self-satisfied with the help of their positive behaviors (Tak et al. 2019). Since the beginning of the twentieth century, the phenomenon of leadership has been one of the most researched topics, yet it remains enigmatic. Over the course of history, more than 350 definitions of “leadership” have been proposed, in the effort to capture this elusive phenomenon in words. However, there is still no unequivocal answer to the question of what distinguishes a person who is a leader from one who is not. Many approaches have attempted to attribute special characteristics or behaviors to leadership, but these have not been proven to be consistent or predictable (Bass, 1960; Cuban, 1988; Stogdill, 1975; Yukl, 2010).

Theories proposed in the past decade emphasize leaders’ symbolic behaviors, inspirational and visionary messages, non-verbal communication, appeal to ideological values, intellectual challenges to those being led, and expectations of self-sacrifice on the part of the leaders at a level that reach far beyond their concrete duties. Leaders endow work with meaning by connecting it to moral aims, commitment, and trying to influence factors in the environment of those being led (Levy, 2008; Yukl, 2010).

Leadership encompasses a set of qualities that includes setting goals, defining a vision, realizing that vision, and leading others towards the achievement of the desired goals. Successful leaders develop a vision based on personal and professional values that influence others. There is a consensus in the research that personal relationships are central to leadership (Bush & Glover, 2003).

Heller (2002) argued that a person in a leadership position is expected to exhibit characteristics of leadership, shaping the organizational climate in a hierarchical manner, creating an interaction with the followers. Joint decision-making allows for involvement of multiple people in the process, enabling any individual member to influence how the group acts in response to their common goals. A model of effective leadership is created by a dynamic interaction between leaders, followers, and their circumstances (Popper, 2007). The leader directs the actions or attitudes of group members through various techniques of influence, ranging from coercion to persuasion.

Further, it has been found that followers prefer democratic, supportive, and participatory leadership with an accommodating style, over an authoritarian style (Oplatka, 2015). This highlights the importance of a participatory approach, in which the burden of leadership is divided among multiple people. Participatory leadership emphasizes personal development of all members of the work team. This leadership style is characterized by mechanisms of joint decision-making that create engagement, dialogue communities, and an ongoing discussion about building shared values. Another characteristic of participatory leadership is a focus on identifying the special contributions of each group member (Chrislip and Larson, 1994; Sergiovanni, 1984). Participatory leadership incorporates a principle of reciprocity between leader and followers, and is based on interpersonal relationships. It is aimed at a specific purpose (Coleman & Fitzgerald, 2008).

A recent study proposes that leaders in the academic sector should have Authentic leadership (AL) themselves in order to improve the overall performance of the team project. This can contribute to the performance of the university as well as the organization’s sustainable performance. (Tak& al 2019).

Furthermore, Duan (2020) points to the idea that there is an autonomy of decisions and balance between ***change and stability***. "COVID-19 reflected on agility and adaptive governance .Existing institutional structures and tools can enable adaptively and agility, which can be complimentary approaches. Agility sometimes conflicts with adaptability, centralized and decentralized decision-making, for both innovation and bureaucracy, and both science and politics". (Duan & al, 2020).

*Leadership during a Crisis or Emergency Situation*

the outbreak of covid 19 pandemic and its sheer unpredictability make it challenging for leaders to respond. The pandemic is a “landscape scale” crisis: an unexpected event of enormous and overwhelming speed, resulting in a high degree of uncertainty that gives rise to disorientation, a feeling of lost control, and strong emotional disturbance. (Arnold& al 2020)

In academia, those in leadership positions at higher education institutions throughout the world have responded to the crisis by closing campuses and moving all educational activities online; "flatten the curve” of nationwide transmission. (Ahmed, Zviedrite, & Uzicanin, **[2018](https://onlinelibrary.wiley.com/doi/full/10.1002/jls.21684" \l "jls21684-bib-0001)**).

Netolicky (2020) argued that moving forward is key for all leaders while avoiding rash or rushed decisions. “In a time of crisis, leaders must act swiftly and with foresight but also with careful consideration of options, consequences and side effects of actions taken” (Netolicky, 2020, p. 2).

כאשר התוצאה של מנהיגות בזמן משבר היא לא מושלמת ולעיתים היא מתבצעת עם טעויות. אך ברור מעל לכל ספק שחייבת להיות תגובה זמישה כדי למנוע, או לפחות להתמודד עם גורם המשבר או הסיכון .

Leadership is of particular importance during emergencies and crises. Seeger et al*.* (1998) define a crisis as a specific, unpredictable, and unconventional event or series of events that creates high levels of uncertainty and threatens the organization’s ability to achieve its goals. Crises present opportunities to reveal leadership and to test the existing leadership. In a crisis situation, a system may lose its flexibility, as a result of failing to deal with a threat or responding ineffectively at a critical turning point. In times of crisis, a threat becomes a reality; feared and undesirable events actually occur. The transition from feared scenario to a real crisis exacerbates the psychological stress among individuals and the system as a whole, and various systems may cross their threshold of endurance. It may take a long time for systems to cope with this new situation, and the ability to function during the crisis may be diminished (Janis, 1989). in a crisis, there is a need for a type of leadership, which enables others to lead. Abolio (1999) defines the role of a leader during an emergency as being a leader of leaders. This means “deepening” the organizational leadership, delegating authority, and overseeing use of human resources. Deepening the leadership refers to involvement in the life of the organization, enabling continuation of the organization’s activities, maintaining a positive mood, and offering tools for decision-making. During a crisis, it is crucial to support leadership traits that are expressed by others in the organization. This requires leaders who are self-confident, secure in their professional authority, who do not feel threatened by competition, are able to support the work of others, and are willing to delegate responsibility. This type of leader exhibits a decentralized style that offers employees ways to develop their own internal leadership. Deep leadership transforms the leader into an active partner with followers. This type of leader is not a charismatic visionary who is elevated high above the followers. Rather, this type of leader has the ability to empower followers, allows them freedom of thought and action, and enables them to be co-leaders. This leader is a “first among equals”. Under certain conditions, a leader can even relinquish leadership and become a follower (Abolio, 1999). Similar approaches appear in Harris (2002) and Leithwood (2001), who advocate decentralized leadership as an alternative to traditional models of hierarchical leadership. Decentralization and deep leadership are recommended approaches to leadership at all times, but especially during emergencies. Leaders with experience in crisis management may use the emergency situation to leverage change and create a new reality that will benefit the followers (Tzur, 2004).

Previous research has focused on formal leadership, such as in politics and the military. This type of leader makes decisions, directs, explains, and mediates reality to the public in order to maintain functional continuity during an emergency. The expectation is that leaders will offer solutions and convey optimism and enthusiasm in order to influence those around them. During a crisis, leaders tend to display a range of emotions in their efforts to direct their followers. They must exercise discretion as to which emotions to express and which to withhold (George, 2000). It is important for leader to understand how to manage and regulate their emotions in times of crisis, or when dealing with any adverse events that occur in the course of their work (Humphrey et al., 2008; Oplatka, 2018).

During an emergency, the leadership must deal with uncertainty in emotions and thoughts, and the need for quick responses to dramatic change. They must propose solutions as they deal with unanticipated and unfamiliar issues. People expect their leaders to minimize the impact of the crisis. Despite the extreme conditions of an emergency, leaders must maintain a sense of normalcy and make careful decisions, because their decisions involve risks and have consequences on the personal and, in some cases, the national level (Rosenman et al., 2014).

During an emergency, leadership skills are critical to the survival of any organization, institution, or nation. Previous research has examined the functioning of leadership in crisis situations such as war or natural disasters (earthquakes, tsunamis), or the management of trauma rooms in a clinical/medical arena. There is a lack of research on the issue of leadership during a global pandemic, but it is possible to learn from research on studies of emergencies in the medical field, and to make a connection with the issue under investigation in the current study. For example, effective communication and leadership are noted as essential in emergency responses, in order to improve health outcomes and increase patient safety. Effective leadership is associated with effective teamwork and more positive outcomes in emergency situations and with improved staff engagement (Rosenman, 2014, Manning, 2016).

Boin et al*.* (2005) examined how leaders face strategic challenges, risks, and political opportunities, mistakes they make, traps they avoid, and various crisis management paths. They formulated five core tasks of leadership during a crisis: sense-making, decision-making, meaning-making, terminating, and learning. These processes relate to removing barriers to recognizing and understanding the crisis, knowing the organizational limitations, and assessing its psychological dimensions. Demonstrating leadership performance in times of crisis includes evaluating alternatives, making critical decisions, team building, and execution of decisions (Boin et al., 2005).

Another factor in crisis management is related to achievement. It is necessary for leaders to perform their duties, and to model the characteristics of leadership to their followers, so they can become partners in the process (Kadibesegil, 2008). Crises present leadership opportunities, allowing “ordinary” people to move to the forefront, make unexpected contributions, and even develop into leaders. During a crisis, a leader is born as the need arises (Tutar, 2004).

A more critical approach asserts that the academic assessment regarding the importance of leadership in times of crises is impressionistic, at best. It is well known that leaders can exacerbate a crisis by ignoring impending threats, making unwise decisions, or taking careless actions (Boin & Hart, 2010). Leadership can be a double-edged sword. It can be valuable, extricating followers from the crisis, or it can be destructive and thoughtless, and even aggravate the crisis.

*Adaptive Leadership in Times of Crisis*

Adaptive leaders do more than make changes. They recognize potential changes and carefully consider which is the best path to positively impact the organization. Adaptive and agile leadership involves behavioral changes that are appropriate to the changes in the situation (Mahsud et al*.,* 2010). Adaptive leaders are aware of leader-follower relationships, and consider factors in the environment within which leaders and followers operate (Glover et al., 2002).

Adaptive leadership is less pertinent to routine times, because, by definition, it involves adaptation to an unusual situation that requires unconventional responses and tools that are not in usual toolbox. An adaptive leadership response spans the gap between the organization’s aspirations, goals and its operational capability. Adaptive leadership helps individuals and organizations adjust to and thrive in challenging environments. This approach is based on the research of Heifetz et al*.* (2009), which shaped the definitions and drew the outline for leadership training and development.

Adaptive leadership during a crisis refers to the realization of leadership in the face of complex situations that require rapid change, and during which the current authority is insufficient. Adaptive leadership refers to a type of action and, not a specific person. In adaptive leadership, actions are based on broad, systemic thinking. The leader drives processes that are undertaken by many people together. Adaptive leadership does not refer to a single, authoritative leader, but rather a system that responds to changes in its environment. This is presented as the preferred path of action, based on systemic understanding, and leading to systemic change (Heifetz et al*.,* 2009, p. 14). Any person in any role can act to promote systemic change. Anyone can take a position of adaptive leadership. This process involves risk for the person leading the change.

Tzur (2004) defined adaptive leadership as having central significance, especially in situations where multiple populations turn to a leader in the hope of receiving assistance, support, and protection against the factors causing a change or state of emergency. This theoretical approach is appropriate for the analysis of the various situations presented in the current article.

**Methodology**

*Research Methods*

The study utilizes a mixed-methods research approach. based on an action research methodology. The researchers are also members of the college leadership, and participated in the described processes.

The data were collected concurrently or sequentially, given a priority, and involve to the integration of the data at one or more stages in the process of research”. (Creswell et. Al, 2008). using the approach based on McNiff (2002) that suggests to see action reserch as a platform for professional development .

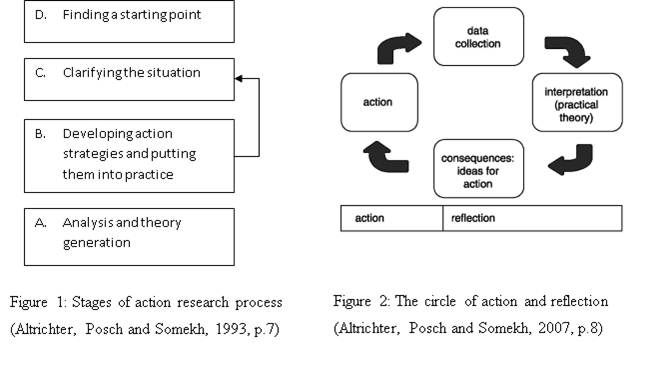
המעורבות במחקר פעולה תוכל לסייע לכל אחד מאתנו לצמוח לצמוח ולבחון את העשייה היום יומית שלנו באופן רפלקטיבי, דרך ניתוח המסמכים המתעדים את הפעילות (איכותני) ודרך התבוננות רפלקטיבית בממצאים הכמותיים המבטאים את נקודת המבט והערכתם של המרצים (אוכלוסיית המחקר) על עשייה זו .

מעורבותנו כחוקרים ויישום מתודולוגיה מחקרית משולבת תסייע לנו לבחון את הממצאים ולברר באופן רפלקטיבי האם העשייה שלנו כמנהיגי המכללה תואמת לציפיות שלנו מעצמנו ומעבודתנו.

Research data has been analyzed in accordance with categorical analysis techniques

מתוך המסמכים והתהליכים שתועדו ושהחוקרים היו מעורבים בביצועם זוהו קטגוריות תוכן מרכזיות. הניתוח של הממצאים מתוך הפעולות, התהליכים והמסמכים בוצע במתודולוגיה מעגלית של מחקר פעולה על פי המודל של Altrichter,& al( 2007)

And as well as the circle of action and reflection as described below. (Altrichter,& al 2007) . Based on documents, as well as a quantitative approaches based on a questuener.

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הרציונל לבחירה במתודולוגיה מעורבת זו מתבססת על ההכרה, כי מחקרים אינם מושלמים, ויש גורמי הטיה רבים בכל סוגי המחקר. לכן, הבחירה בגישה המעורבת, נועדה לנסות ולצמצם את ההטיות וליהנות מהיתרונות של כל אחת מהמתודות (

Tashakkori .(Axinn & Pearce, 2006 ; & Teddlie, 2003).

החלק האיכותני מתבסס יעל תהליך ניתוח , סידור והבניית המידע שנאסף ממסמכים ונוכחות בישיבות בהן התקבלו ההחלטות. הניתוח מתייחס לפרשנות והבנת המשמעויות שלו (שקדי, 2004). שיטת הניתוח היא **השיטה הנושאית** שבה יש שימוש במסמכים. תוצר הניתוח הן קטגוריות נושאיות. על פי זה ובהתאם לשאלות המחקר זוהו במחקר הנוכחי קטגוריות מרכזיות המתייחסות לתפיסת המנהיגות של הנהלת המכללה, כפי שתועדה במסמכים, ישיבות הנהלה, פרוטוקולים, ומסמכי הנחיות שהגיעו מטעם המדינה . הקטגוריות הללו מכלילות ו מבקשות לתאר במילים את המציאות הנחקרת, לבטא אותה ולהקנות לה משמעויות. גישה זו נשענת

Forsyth,( 1990 )כמתואר אצל על מתודולוגית מחקר פעולה המסתמך על החוקים של חיי קבוצה,

החלק הכמותני מתבסס על שאלון ייעודי שנבנה בהלימה למטרות וצורכי המחקר. הנהגת המכללה ביקשה לברר על ידי השאלון את עמדת המרצים ואופן הערכתם את הפעולות שננקטו על ידי הנהגת המכללה. כדי לבסס את מהימנות הנתונים והממצאים הכמותיים. בשלב הראשון, שני כותבי המאמר ביצעו בנפרד את מדידת הערכים (באמצעות מבחנים סטטיסטים) . בשלב השני , התשובות וממצאי המחקר נבחנו על ידי שני החוקרים, שהשוו את התוצאות ביניהם. כדי להגביר את מהימנות השאלון – נבנו מספר רב של היגדים (17) כמפורט . לכל קטגוריה היו מספר היגדים כך **שהערך הנצפ**ה יהיה מדויק ככול שניתן . איתרנו מהימנות של עקיבות פנימית. כל הפריטים מדדו משתנה נצפה ונמצא מתאם גבוה בין הפריטים.  **Expected value** . . Validity& Reliability Statistics: Alpha Cronbach's 0.819.

בנוסף, מהימניות שלושת המדדים הראשונים שנבדקו ( שימור קשר ישיר עם ההנהלה 8 הגדים, ניהול תהליכי ההכשרה וההתנסות המעשית 4 היגדים והתמדה בהוראה מרחוק וקשר עם סטודנטים 2 הגדים ) , כפי שנמדדו על פי אלפא-קרונבך (α), נמצאו גבוהות, נתון המאפיין מידת יציבות ועקביות גבוהה בהיגדי כל אחד מהמדדים

Scale: ALL VARIABLES

| Case Processing Summary | | | |
| --- | --- | --- | --- |
|  | | N | % |
| Cases | Valid | 46 | 95.8 |
| Excludeda | 2 | 4.2 |
| Total | 48 | 100.0 |
| a. List wise deletion based all variables in the procedure. | | | |

*Research Process*

The study describes the decisions and steps undertaken by the leadership of Ohalo College documented since March- July 2020, following the announcement of various closures due to Covid-19. It quantitatively examines the degree to which the college lecturers approved of the leadership’s performance. Quantitative data were collected from responses to a questionnaire distributed via Google Drive to the entire population of lecturers at the college. The distribution was done as a single-stage face validation procedure among a convenience sample. Responses were anonymous. Statistical analysis was conducted on the findings, as presented in the tables.

The qualitative study analysis is based on documents, protocols, and processes recorded in real time. The authors of the article were involved in leading the processes described, and therefore their personal and professional experiences are also considered.

The theoretical framework is based on approaches in previous research on leadership. During a crisis, leaders are forced to function in a rapidly changing situation. This requires dynamic approaches, decision-making processes, goal-setting behaviors, and efforts to maintain relationships among the organization’s members. The theoretical approach in the current case study is based on key concepts such as adaptive leadership and deep leadership.

The main research hypothesis predicts that a positive relationship will be found between the decisions made by the college leadership and the degree of satisfaction expressed by the college lecturers regarding the leadership’s performance.

*Study Population*

The study population included 48 subjects. Of these, 38 were lecturers in the field of education (79.2%), 5 were lecturers in the school of physical education (10.4%) and 5 were lecturers in a variety of other disciplines (10.4%). Ten of the lecturers have seniority of less than 5 years (20.9%), 19 lecturers have 5-9 years of seniority (39.6%), and 19 lecturers have seniority of 10 years or more (39.6%).

*Research Tools*

*כלי המחקר היה שאלון שניבנה בהלימה למטרות המחקר, ושאלות המחקר.*

The questionnaire included 17 statements, each requiring a response along a five-point Likert scale, in which a high value represented a high degree of agreement with the statement. These statements were associated with seven topical categories: maintaining direct contact with the leadership (statements 1, 3, 4, 8, 9, 10, 15, 16); management of processes of training and experience (statements 5, 7, 13); persistence in maintaining contact with students during distance learning (statements 6, 14); degree of personal difficulty (statement 11); lecturers’ desire to be involved in leadership decisions (statement 2); perspective regarding the consistency over time of the changes enacted (statement 12); and frequency of use of overall resources (statement 17). The mean of each participant’s responses to the statements in these seven categories was calculated, and thus the seven indices of the study were verified.

The questionnaire was reviewed for validity by three content experts holding doctorates in education.

כדי לבסס את מהימנות הנתונים והממצאים הכמותניים. בשלב הראשון, שני כותבי המאמר ביצעו בנפרד את מדידת הערכים . בשלב השני , התשובות וממצאי המחקר נבחנו על ידי שני החוקרים, שהשוו את התוצאות ביניהם. כדי להגביר את מהימנות השאלון – נבנו מספר רב של היגדים (17) כמפורט . לכל קטגוריה היו מספר היגדים כך **שהערך הנצפ**ה יהיה מדויק ככול שניתן . איתרנו מהימנות של עקיבות פנימית. כל הפריטים מדדו משתנה נצפה ונמצא מתאם גבוה בין הפריטים.  **Expected value** .

. Validity& Reliability Statistics: Alpha Cronbach's 0.819.

בהתאם לכך,

מהימניות שלושת המדדים הראשונים שנבדקו ( שימור קשר ישיר עם ההנהלה 8 הגדים, ניהול תהליכי ההכשרה וההתנסות המעשית 4 היגדים והתמדה בהוראה מרחוק וקשר עם סטודנטים 2 הגדים ) , כפי שנמדדו על פי אלפא-קרונבך (α), נמצאו גבוהות, נתון המאפיין מידת יציבות ועקביות גבוהה בהיגדי כל אחד מהמדדים

Scale: ALL VARIABLES

| Case Processing Summary | | | |
| --- | --- | --- | --- |
|  | | N | % |
| Cases | Valid | 46 | 95.8 |
| Excludeda | 2 | 4.2 |
| Total | 48 | 100.0 |
| a. List wise deletion based all variables in the procedure. | | | |

החלק האיכותני מתבסס יעל תהליך ניתוח של סידור והבניית המידע שנאסף ממסמכים ונוכחות בישיבות בהן התקבלו ההחלטות. הניתוח מתייחס לפרשנות והבנת המשמעויות שלו (שקדי, 2004). שיטת הניתוח היא **השיטה הנושאית** שבה יש שימוש במסמכים. תוצר הניתוח הן קטגוריות נושאיות. על פי זה ובהתאם לשאלות המחקר זוהו במחקר הנוכחי קטגוריות מרכזיות המתייחסות לתפיסת המנהיגות של הנהלת המכללה, כפי שתועדה במסמכים, ישיבות הנהלה, פרוטוקולים, ומסמכי הנחיות שהגיעו מטעם המדינה . החוקרים היו מעורבים בתהליכים אלו כמנהלים וכחוקרים. המבע במבקש לתאר את המציאות הנחקרת ולבטא אותה ולהקנות לה משמעויות. גישה הנשענת

(Forsyth, 1990 ) על מתודולוגית מחקר פעולה המסתמך על החוקים של חיי קבוצה,

המטרה להציג בריקולאז' מורכב של נתונים, התרשמויות, מבעד לעייני החוקרים/ מנהיגים (איכותני) ומבעד לעיני המרצים (כמותני). Richardson, L. & Adams St. Pierre, E. (2005). e

**Qualitative findings; The Lesson is the Process**

*From Theory to Reality: How the Ohalo College Leadership Responded to the Covid-19 Pandemic*

With the onset of this crisis, the college leadership convened a meeting to define its main goals, which guided the various processes undertaken by the college throughout this period (see Fig. 1).

1. **Implementation of state guidelines**. Following the varied and graduated guidelines on the general closure, the college was forced to reduce the number of workers, adhere to social distancing, limit the number of people present (no more than 30% of the administrative staff), and adhere to rules of hygiene termed the “purple badge”. In light of the closure and the strict guidelines on social distancing, the college made a general transition to learning and teaching via online platforms. This presented challenges to the faculty and the students alike. The college fully complied with the guidelines, even when there were conflicting guidelines and updates were issued every few hours, at all times of day or night. It became immediately clear that it could not be assumed or expected that each individual would read all of the incoming information. Therefore, all stakeholders had to share all the information, at all times.
2. **Preservation and maintenance of training processes**. The motto adopted by the leadership was “continue as usual, in an unusual mode”. Following the announcement of the closure, an “agile” transition took place. Within 48 hours, 700 courses, 1500 students, and 140 lecturers were transitioned to ERT mode. They used various platforms, primarily Zoom, which was new and unfamiliar to most of them prior to this time.
3. **Continuation of the practical experience (practicum).** A central element of teacher training is the practicum. It was decided to continue the practicum through distance teaching and learning sessions. The college students taught school pupils via Zoom. When it became possible to return to the schools and kindergartens, they continued to teach and gain experience in the typical mode. The unit for the practicum was prepared according to three different scenarios, in order to cover all possibilities during the Covid-19 pandemic (remote learning, in-person training at the institution, or a hybrid experience). All stakeholders involved in the training were partners in the transition processes (students, teacher-trainer, school teacher, kindergarten teacher, etc.). Frequent meetings were held. All information was collaborative and transparent. Decisions were made collaboratively.
4. **Maintenance of direct contact between students, lecturers, and administrative staff.** A second motto was adopted: “We (the college administrators) are here for you at all times.” Continuous dynamic interaction was maintained among all stakeholders, including administrative staff, academic staff, and students. A routine was created for maintaining contact during this time through emails, personal phone calls from department heads and lecturers to students, enlisting the student association, and involving students in the process. Zoom conversations were initiated between staff members, students, and the administrative support services. Emotional and psychological counseling services were offered via Zoom. Conversations were held via Facetime with heads of activity groups. Social activities were held via Zoom.

**[Figure 1 here]**

Below is a timeline of the primary actions undertaken?

**Stage 1: The surprise followed by the agile response.**

*March 12 through April 20, 2020* was a lockdown period. A rapid transition was made to remote methods for learning, teaching, and administrative tasks. This was a time of great uncertainty for all, and involved a period of adaptation to this new situation.

*March 12, 2020.* Following receipt of state guidelines regarding the expected closure, the college leadership held an emergency assessment meeting. The goal was to create and prepare an emergency Innovation and Technical Support Unit for ERT (similar to a “war room” in more familiar situations of security threats or military conflict). On the afternoon of March 12, letters were sent to all faculty and students on behalf of the head of the college regarding the guidelines, with an explanation that within 48 hours of receiving the notice of the closure, the college was moving towards ERT.

*March 15, 2020.* Distance learning began. All courses and activities were transferred to remote modes.

*March 16, 2020.* Internal Academic Council – preparing the department heads. All department heads reported on their level of readiness for the change. The head of the college updated everyone with information and steps to be taken. Joint decisions were made through discussion and consultations.

**Stage 2: Functioning in the "Corona Routine" – May 20 through the end of the semester on June 26, 2020**

1. The assessment processes for online tests in a variety of examination methods (multi-text, multiple-choice, oral, and more) were reinforced and accelerated. The test moderators and the staff were assessed by the academic director.
2. The technological infrastructure was prepared by creating the Innovation and Technical Support Unit.
3. Some students were invited for a number of supplementary sessions for practical and didactic lessons, in accordance with the “purple badge” guidelines (state guidelines for maintaining social distance, hygiene, seating arrangements, wearing face masks, class placement according to number of participants per square meter, etc.).
4. Evaluations of the Innovation and Technical Support Unit. A special portal was opened using the Moodel system, an online synchronous support and training system that provides tools for lecturers with videos, explanations, etc.
5. Following the initial “surprise” phase at the beginning of the second semester, we saw various initiatives and a burst of renewed creativity on the part of staff, lecturers, and people in other roles, such as creating greeting videos, songs, enrichment activities, and technological guidance for department heads, and more.

From mid-March through the end of the second semester, following the decision regarding the four guiding principles and the implementation of the guidelines, the following steps were taken:

1. Individuals in many roles implemented the guidelines and even expanded upon them. We observed manifestations of leadership and management among department heads, in terms of supporting lecturers and students during distance learning. The lecturers adapted to the change. They participated in many Zoom meetings facilitated by the leadership, as well as training and coaching meetings with the Innovation and Technical Support Unit.
2. Ongoing support was provided by the Innovation and Technical Support Unit. Two Zoom meetings each week were offered to the lecturers for techno-pedagogical support.
3. All the lecturers prepared weekly reports to the department heads, using WhatsApp groups set up for this purpose. Daily activities included meetings via Zoom, written reports, and supervision via Moodel.
4. Lecturers collaborated on a variety of platforms, enabling them to share their accumulated knowledge and experiences regarding what was successful and what was less so.
5. The contract with the company operating the Unicko virtual classroom platform was terminated. It was replaced by synchronous instruction conducted via Zoom.
6. A wide range of courses, facilitation and training sessions, and participatory activities were offered by the MOFET Institute (a national intercollegiate center for the research and development of curricula and programs in teacher education and teaching in the colleges).  to the lecturers and pedagogical instructors.
7. A set of support services were offered to students, including calls by phone, Zoom or Facetime with the head of the college, department heads, lecturers, and other faculty members; addressing inquiries; and offering (online) psychological counseling and emotional support.
8. The remote experience and online environment replaced classroom learning. Pedagogic instructors prepared students for distance learning. For the practicum unit, the college students, together with a school teacher and/or kindergarten teacher, prepared and guided a wide variety of educational tasks and assignments for pupils in schools and kindergartens, all of which were conducted via Zoom.
9. The outcomes of a variety of practicum experiences were collected and documented. Processes were analyzed and a new model for conducting the practicum and training sessions using ERT was created by Ohalo College. This model was distributed by the Ministry of Education to many other colleges.
10. Weekly meetings of the leadership team were held via Zoom.
11. Contact was maintained with the students and faculty. For example, a videotaped Passover holiday greeting was prepared and distributed to all students, and a Zoom gathering for students and their families to “raise a glass in toasting the holiday”.
12. After the Passover holiday break, supervision of the academic processes became the responsibility of the head of the Faculty of Education and the head of the School of Physical Education. There was close supervision of department heads and coordinators of the academic specializations.
13. Thought was dedicated to creating ways to conduct assessments, tests, and work online. This included consultation and management of the process by the faculty and department heads.
14. Zoom licensing was purchased. The Internet bandwidth for the college was expanded. There was consultation with the Mofet Institute regarding services to be used at this unusual time. The model for conducting the lessons was assessed.
15. Regular updates were distributed to the members of the academic and administrative teams through announcements and letters regarding what is expected for the following two weeks.
16. Monthly Zoom meetings were held with the head of the college, the faculty and department heads, and all the lecturers.
17. At the lecturer level: Assistance and personal support was provided for lecturers who were not proficient in conducting remote teaching. The Innovation and Technical Support Unit’s “war room” provided support, updates, and knowledge via weekly Zoom sessions. Information was disseminated regarding meetings, lectures, and various training sessions (offered by the Mofet Institute and others).

At the student level: Every two weeks, letters were sent to students by the head of the college, and the department and faculty heads. For the first two weeks, the college initiated personal phone calls with all the students. Various staff members were assigned certain groups of students to call.

The administrative team opened a dedicated file for student inquiries on various topics, and all inquiries were handled.

1. Feedback was disseminated from surveys on distance learning and accuracy during the ongoing processes, regarding the various courses, teaching methods, and assessment processes were disseminated.

The guiding principles:

One of the basic premises that guided the college leadership in their role as the decision makers was to distribute the relevant information to all the employees in real time and as quickly as possible. The organization strove to avoid being misled by inaccurate information, which often came out in the daily news media, and not to overwhelm people with unnecessary details or unverified scenarios. They tried to offer as much certainty and stability as possible in this unsettling time of crisis, and to offer a sense of belonging, of having someone to trust, and especially to be connected with them.

In summary, the central and meaningful motto that guided the processes of leadership and management during this crisis was: "Flatten the hierarchy curve" and provide a scope for action, with an emphasis on enabling people’s leadership potential. Such a process optimizes leadership in a crisis, by dividing responsibilities and enabling others to assume leadership. Each coordinator and department head took full responsibility and demonstrated leadership. They showed their understanding of the scope of the situation by looking a few steps ahead, preparing and evaluating each teaching scenario (frontal or online). There was a flow of information among the partners.

From all the aspects described above, we can develop a theoretical model that synthesizes existing models and the processes that took place at Ohalo College during the Covid-19 pandemic (see Fig. 2).

**[Figure 2 here]**

1. Valuable versus expendable: Identify which of the goals and practices are the most important, significant, central to the organization, and crucial for the future; identify those that pose obstacles in a changing era of emergencies and uncertainty.
2. Experimentation with “smart risks” – developing and testing practices for the future.
3. Management assessment: Integration of next steps and practices to identify what may be adopted in the future. The path to be taken was clarified, and the college prepared for a variety of potential scenarios. Performance was evaluated via the survey on distance teaching, which was distributed to students (this subject was presented in a previous study, Nissim& Simon , 2020) and the leadership activity evaluation survey, which was distributed to lecturers.

**[Figure 3 here]**

**Quantitative Findings**

Having set out the theoretical infrastructure and described the processes undertaken, we now examine and analyze the conduct of the college leadership from the perspective of the lecturers, who were partners throughout the process.

Following the first phase of shock and uncertainty, by mid-semester (about a month following the closure) the college had entered a “Corona Routine”. At this time, we assessed the performance of the leadership and how the lecturers evaluated the decisions the leadership made. Key findings are given in Table 1.

[**Table 1 here**]

The reliability of the first three indices, as measured by Cronbach’s alpha (α), was found to be high. This attests to a high degree of stability and consistency in the statements within each of the categories.

Table 2 presents the mean of the respondents' answers to each of the 17 statements.

**[Table 2 here]**

The findings indicate that the respondents saw themselves as being highly persistent in the distance teaching processes (average 4.73). They rated their conduct with the students positively (4.50). In their opinion, the college leadership preserved the teaching processes in a positive way (4.48). The respondents highly rated their degree of awareness regarding the existence of ongoing training processes (4.33). They said they felt comfortable contacting those in official roles (4.23). An interesting finding is that the subjects did not indicate experiencing a high degree of personal difficulty while dealing with the uncertainty during the time of the Covid-19 crisis (only 2.35).

*Correlations Between Research Indices*

Pearson tests were performed to examine the correlations between the research indices, as shown in Table 3.

**[Table 3 here]**

It can be seen that there are moderately positive correlations between the maintenance of direct contact with the college leadership, managing training and experience processes, perception of the preservation of changes over time, and the frequency of use of overall resources. In addition, positive correlations of medium intensity between the management of the training and experience processes, persistence in distance teaching, contact with students, perception of the preservation of changes over time, and the frequency of use of overall resources. In addition, moderately positive correlations were found between the degree of personal difficulty and the desire of the lecturers for involvement, as well as between the perception of the preservation of changes over time and the frequency of use of overall resources.

**Summary, Discussion and Conclusions**

In this case study, we demonstrate how the leadership of an academic institution for teacher and educator training operated in a deep and adaptive manner. They created a dynamic interaction with all stakeholders. It was necessary to prepare and implement a rapid, agile, and flexible solution under conditions of uncertainty. It was essential to continue the organizational activities as they transitioned from active learning on the college campus to a comprehensive set of distance learning, teaching and other activities conducted remotely, in accordance with state guidelines.

As the organization dealt with the forced closure in the face of the Covid-19 pandemic, the main goal underlying the college’s activities was changed and they adopted a number of sub-goals suitable to an “agile” organization. The speed with which this transition took place was unprecedented. The practices described above can be linked to the theory of adaptive leadership, as presented by Heifetz et al. (2009). They reflect decisions that move in both directions along the axis between adaptive leadership and organized implementation, and between high levels of abstract ideas and low levels of concrete activities, that is, formulation of a strategy and its implementation in a wide range of tactics (as illustrated in Figure 2). During the crisis, issues that were at the core of the organization received the most attention from all stakeholders: leadership, lecturers, and students. Multiple meetings and conversations were held with all stakeholders, in order to give them an opportunity to express their point of view. The role of the leadership was to respond to the newly arisen situation, and to evolve organizationally as the situation developed. This approach is consistent with Abolio’s (1999) assertion that supporting the leadership skills among others is critical in times of crisis. Decentralized leadership creates learning situations that can develop internal leadership. Deep leadership makes the leader an active partner with followers. Such a leader is perceived as being able to empower followers, give them intellectual and executive independence, and indeed become leaders themselves (Abolio, 1999).

At the outset of the study, we hypothesized that a positive relationship would be found between the decisions the colleges leadership made and the satisfaction of the lecturers, in terms of whether the training provided and the leadership’s conduct were beneficial to the students and faculty. This hypothesis was confirmed by the findings, as presented above.

The study set out to answer the research question: What was the perspective of the lecturers regarding the steps taken by the leadership? To answer this question, a questionnaire was sent to the lecturers and the responses were analyzed. The results show there was a high level of satisfaction on the part of the lecturers regarding the conduct of the college administration during the Covid-19 pandemic. This is true, despite the fact that the lecturers were presented with varied and changing requirements, which greatly deviated from their normal pre-pandemic routine. They had to teach using ERT, access a wide range of tutorials, attend Zoom meetings, and in general adapt to a new and surprising situation that required a significant investment of time, beyond what would have been considered acceptable previously.

The lecturers (study participants), according to their responses to the survey, were persistent in the remote teaching process. In their opinion, their conduct with the students was positive .They said they perceived the college leadership as maintaining teaching processes in a highly positive way .They said there was awareness of the ongoing training processes .They said they felt comfortable contacting those in official roles .

A second research question was: what are the main insights that can be learned from this test case in order to create models of valuable, adaptive, and agile leadership under conditions of crisis and uncertainty? The main goal of the college's activities was transformed into targeted and specific sub-goals to address the Covid-19 pandemic: to be an “agile” organization and to move all administrative, teaching, and other educational activities from a physical, frontal format to an online form, especially using the Zoom platform.

These processes occurred quickly and with agility, in order to continue the training processes, enable teaching and learning anywhere and anytime, and to maintain the health of students and faculty in accordance with guidelines and orders issued by the state. The speed with which this transition took place was unprecedented. For these processes to occur effectively, it was necessary to apply skills and capabilities of adaptive leadership and agility in the face of the crisis, to adopt channels of direct, selfless communication, to allow other people to take initiative and participate in leadership, and especially to flatten the hierarchy curve. This created a situation in which there was no longer one leader with others acting as followers; rather, each member of the faculty, department heads, and other officials could become leaders during the emergency. They took responsibility for various areas, initiated action, were creative, and acted in accordance with all the relevant factors. This approach is consistent with that described by Abolio (1999) as a leader who is the “first among equals”.

Leadership in an institution of higher education requires special traits. This can be seen as being in alignment with theoretical approaches that include: shaping and imparting a vision, encouraging learning, encouraging collaboration, building meaning, imparting knowledge, providing opportunities for creativity, disseminating viewpoints and values, enabling ongoing dialogue, and maintaining and managing reflective processes in a collaborative and up-to-date climate (Schneider, 2010). We believe that in times of crisis, these traits need to be even more strongly expressed, so that the leader is operating in accordance with the framework and is suited to the situation.

**Study Limitations**

This research is a case study in which the researchers were also involved as the leaders of the processes described. Therefore, the subjectivity of the researchers in light of their professional roles impacted the choice the research methodology. The research is pioneering in the field, and is not based on an extensive base of previous research literature that deals directly with the situation under investigation, namely leadership of an academic institution during the Covid-19 pandemic.

The study population in the quantitative survey is a representative, if small, sample. Therefore, the limited database is nevertheless valid.

**References**

Abolio, B. (1999), “Hativach hamaleh shel hamanhegut: B’derech liha-alut ramat ha-affectiviot shel hayachid, hakevutzah, vihairgun”, Gonen, A. and Zakai, A. (Eds.), *Manhigut Vipituach Manhigut*, Lior Publishers of the Ministry of Defense, Tel Aviv, Israel, pp.65-92.

# [Antonio Arturo Fernandez](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Fernandez%2C+Antonio+Arturo) [Graham Paul Shaw](https://onlinelibrary.wiley.com/action/doSearch?ContribAuthorStored=Shaw%2C+Graham+Paul), 2020, Academic Leadership in a Time of Crisis: The Coronavirus and COVID‐19, JOURNAL OF LEADERSHIP STUDIES, Volume 14, Number 1, 2020 . **<https://doi.org/10.1002/jls.21684>**

Altrichter, H., Posch, P. and Somekh, B. (2007, 2nd edition) Teachers Investigate Their Work: An introduction to action research across the professions (Routledge: London).

Amirault, R. J. and Visser, Y. L. (2009), “The university in periods of technological change: A historically grounded perspective”, *Journal of Computing in Higher Education*, Vol. 21 No. 1, pp.62-79.

Arnold M. Howitt and Herman B. Leonard, ( 2007) “Against desperate peril: High performance in emergency preparation and response,” in Deborah E. Gibbons, ed, Communicable Crises: Prevention, Response, and Recovery in the Global Arena, first edition, Charlotte, NC: Information Age Publishing,

Bass, B. M. (1960), *Leadership, Psychology, and Organizational Behavior.* Harper, New York.

Boin, A. and ‘t Hart, P. (2010), “Organising for effective emergency management: Lessons from research”, *Australian Journal of Public Administration,* Vol. 28 No. 4, pp. 357-371

Boin, A., ’t Hart, P., Stern, E., and Sundelius, B. (2005). *The Politics of Crisis Management: Public Leadership Under Pressure*. Cambridge University Press, New York.

Bush, T. and Glover, D. (2003), *School Leadership: Concepts and Evidence. A Review of Literature Carried out for National College for School Leadership*, National College for School Leadership, Nottingham, UK.

Chrislip, D. and Larson, C. (1994), *Collaborative Leadership: How Citizens and Civic Leaders Can Make a Difference*, Jossey-Bass Publishers, San Francisco, CA.

Coleman, M. and Fitzgerald, T. (2008), “Gender and leadership development”, Lumby, J, Crow G., and Pashiardis, P. (Eds.), *International Handbook on the Preparation and Development of School Leaders*, Routledge, London, UK, pp.119–136.

# Creswell et. Al, 2008, The Mixed Methods Reader, SAGE publishing Thousand Oaks, California USA.

Cuban, L., (1988), *The Managerial Imperative and the Practice of Leadership in Schools*, State University of New York Press, Albany, NY.

# George, J. M. (2000), Emotions and leadership: The role of emotional intelligence”, *Human relations*, Vol. 53 No. 8, pp.1027-1055.

Glover, J., Rainwater, K., Jones, G., and Friedman, H. (2002). “Adaptive leadership: Four principles for being adaptive (Part 2)”, *Organization Development Journal*, Vol. 20 No. 2, pp.18-38.

Goodarzi, B., Shakeri, K., Ghaniyoun, A., and Heidari M. (2018), “Assessment correlation of the organizational agility of human resources with the performance staff of Tehran Yogesh K. Dwivedi & al, (2020), Impact of COVID-19 pandemic on information management research and practice: Transforming education, work and life, International Journal of Information Management, Volume 55, 2020, ttps://doi.org/10.1016/j.ijinfomgt.2020.102211Emergency Center”, Journal of Education and Health Promotion, Vol. 7, p.142.

Duan, John S. Edwards, Babita Gupta, Banita Lal, Santosh Misra, Prakhar Prashant, Ramakrishnan Raman, Nripendra P. Rana, Sujeet K. Sharma, Nitin Upadhyay, Impact of COVID-19 pandemic on information management research and practice: Transforming education, work and life, International Journal of Information Management, Volume 55, 2020, https://doi.org/10.1016/j.ijinfomgt.2020.102211

Harris, A. (2002), "Distributed Leadership in Schools: Leading or Misleading?", Paper presented at the British Educational Leadership, Management and Administration Society annual conference, Birmingham.

Heifetz, R. and Luria, D. (1994), “Avodah hamanhigut bi’idan shel shinuyim.”, Amit, H. (Ed.) *Acharav-al Manhigot Vimanhigim*, Lior Publishers of the Ministry of Defense, Tel Aviv, Israel, pp. 149-157.

Heifetz, R.A. (1994). Leadership Without Easy Answers. Cambridge, Mass: Belknap Press of Harvard University Press.

Heifetz R, Grashow A, Linsky M. Leadership in a (permanent) crisis. Harv Bus Rev. 2009 Jul-Aug;87(7-8):62-9, 153. PMID: 19630256.

Heifetz, R., Grashow, A., and Linksy, M. (2009), *The Practice of Adaptive Leadership*, Harvard Business Press, Boston, MA.

Heller, D. A. (2002), “The power of gentleness.”, *Educational Leadership*, Vol. 59 No. 8, pp.76-79.

Humphrey, R. H. (2005), “Empathy, emotional expressiveness, and leadership”, Proceedings of the Southern Management Association, Charleston, SC.

Janis, I. L. (1989), *Crucial Decisions: Leadership in Policymaking and Crisis Management*. Free Press.

Kadibesegil, S. (2008), *Crisis Announces It Is Coming*, Mediacat Publishing, Istanbul, Turkey, p.11

Leithwood, K. (1994), "Leadership for school restructuring", *Educational Administration Quarterly*, Vol. 30 No. 4, pp.498–518.

Levy, A. (2008), *Nihul Vimanhigut Shinui Vichadshanut*, Rimon Publishing.

Manning J. (2016), “The influence of nurse manager leadership style on staff nurse work engagement”, *Journal of Nursing Administration*, Vol. 46, pp. 438-443.

[Mahsud, R.](https://www.emerald.com/insight/search?q=Rubina%20Mahsud), [Yukl, G.](https://www.emerald.com/insight/search?q=Gary%20Yukl), and [Prussia, G.](https://www.emerald.com/insight/search?q=Greg%20Prussia) (2010), "Leader empathy, ethical leadership, and relations‐oriented behaviors as antecedents of leader‐member exchange quality", [*Journal of Managerial Psychology*](https://www.emerald.com/insight/publication/issn/0268-3946)*,* Vol. 25 No. 6, pp.561-577. <https://doi.org/10.1108/02683941011056932>

Morien, R. (2018), “Pedagogical agility, and agile methodologies in computer system development education”, *International Journal of Advanced Intelligence Paradigms,* Vol. 11 No. 1-2, pp. 9-32. DOI: [10.1504/IJAIP.2018.10009419](https://www.researchgate.net/deref/http%3A%2F%2Fdx.doi.org%2F10.1504%2FIJAIP.2018.10009419?_sg%5B0%5D=CfFye9CaMDSV3UVjEvqyqpCg5e4HT4FQfqjD6ydcxDK0fPnEHwhf14EbJHSDL1tlYAys3cYhkTu0PivfsaIm6jiFZQ.3lA1djhOGgSwZlpF-R1jZpBhbjrVr3atsEo_Az9SmT7O6LtNmLK8d61BLdS1sFGZYGn395yBVE5AnxSrpxDOrA)

Netolicky, D.M. (2020), “School leadership during a pandemic: navigating tensions”, Journal of Professional Capital and Community. doi: 10.1108/JPCC-05-2020-0017

Nissim Y. & Simon E. (2019). The Teacher-Leader's Image: Between personal characteristics and strategies empowering learners. Journal of Education and Learning. 8. 136-146.

Nissim, Y. 2020. "[Draw Me a Shepherd: Student-teachers' Perceptions and Metaphors on the Image of the "Leader-teacher"](https://ideas.repec.org/a/ibn/hesjnl/v10y2020i2p24.html)," [Higher Education Studies](https://ideas.repec.org/s/ibn/hesjnl.html), Canadian Center of Science and Education, vol. 10(2), pages 1-24, June.

Oplatka, Y. (2015), *Yisodot Minhal Hachinuch: Manhigut Vinihul Bi’irgun Hachunuchi*, Pardes Publishing Ltd.

Oplatka, Y. (2018), *Rigishut Bihora’ah Vibinuhul Beit Sefer*: *Asefut Maamarim*. Mofet Institute, Raanana, Israel, p.28.

Eric Overby, Anandhi Bharadwaj & V Sambamurthy (2006) Enterprise agility and the enabling role of information technology, European Journal of Information Systems, 15:2, 120-131, DOI: [10.1057/palgrave.ejis.3000600](https://doi.org/10.1057/palgrave.ejis.3000600)

Popper, M. (2007), *Manhigut Miatzevet: Mabat Psichologi*, University of Tel Aviv, Tel Aviv Israel, pp.75-102.

Richardson, L. & Adams St. Pierre, E. (2005). Writing: A ν Method of Inquiry. In: Denzin, N.K., & Lincoln, Y.S. (eds.). Handbook of qualitative research (3rd ed.). Thousand Oaks, CA: Sage

Rosenman E., Shandro, J., Ilgen, J., Harper, A. L., and Fernandez, R. (2014), “Leadership training in health care action teams: A systematic review,” *Academic Medicine*, Vol. 89 No. 9, pp.1295- 1306. [https://doi.org/10.1097/ACM.0000 000000000413](https://doi.org/10.1097/ACM.0000%20000000000413)

Schneider, A. and Monsonego, I. (2010), *Orinut Rigashit-Tivunah Vitivunah Biyachasei Enosh: Nidvach Mihuti Bitifisat Hanihul Habeit Seferit*. Beit Berel, Kfar Saba, Israel

Seeger, M. W., Sellnow, T. L. and Ulmer, R. R. (1998), “Communication, organization and crisis”, Roloff M. E. (Ed.), *Communication Yearbook*, Sage, Thousand Oaks, CA.

Sergiovanni, T. (1984), “Leadership and Excellence in Schooling”, *Educational Leadership,* Vol. 41 No. 5, pp.4–13.

[Stogdill](https://journals.aom.org/doi/abs/10.5465/ambpp.1975.4975786), R. (1975), “The evolution of leadership theory”, *Academy of Management Proceedings*, pp.4-6 .<https://doi.org/10.5465/ambpp.1975.4975786>

Strom, D.L.; Sears, K.L.; Kelly, K.M. Work engagement: The roles of organizational justice and leadership style in predicting engagement among employees. J. Leadersh. Organ. Stud. 2014, 21, 71–82.

Taşçı, G.; Titrek, O. Evaluation of Lifelong Learning Centers in Higher Education: A Sustainable Leadership Perspective. Sustainability 2020, 12, 22.

Tak, J.; Seo, J.; Roh, T. The Influence of Authentic Leadership on Authentic Followership, Positive Psychological Capital, and Project Performance: Testing for the Mediation Effects. Sustainability 2019, 11, 6028.

Tutar, H., (2004), *Crisis and Stress Management*. Ankara: Seckin Publishing. pp.105-148.

Tzur, N. (2004), *Rhetorica Politit: Manhigim Yisraelim Bimatzavim Lachatz, Kibbutz Hamiyuchad*, Ra’anana, Israel.

Yukl, G. (2010), *Leadership in Organizations*, Pearson, Upper Saddle River, NJ.