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### Modern Spinsters in the Family and Kinship in the 21st Century

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#### Abstract:

There has been a lot of intellectual and political attention paid to the recent changes in family structures, which have been seen as signaling a decrease in obligations and commitments and a rise in selfish individualism. Even though historically, their singleness has been explained with duties to care for parents and extended family, single women risk being portrayed as strident individualists in contemporary Western societies due to their lack of connection with significant others. This research examines spinsters' social and family networks. The changes and continuities illustrated reflect an increase in the context and meanings of caring obligations, not a decrease. According to the study's findings, this research contradicts a view of humans as autonomous and self-directed and supports arguments regarding the progressive potential of different family practises in today's changing Western cultural and societal contexts.

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#### Introduction

This paper focuses on examining the caring connections among Indian spinsters in the present day [1-3]. This allows us to investigate some theoretical assumptions about how individualism affects familial

obligations and social change when studied [4-8]. A review of recent empirical studies on spinsters' familial ties is presented, emphasizing how these relationships have evolved through time in light of shifting social norms [9]. In recent decades, India has seen a dramatic increase in the number of unmarried people due to these changes [10-14]. With the advent of individualism, academics, politicians, and polemicists have expressed worries about a lack of family or community engagement [15-21].

Statistics on changes in family and household arrangements alone cannot tell us anything about a person's values or intentions [22-27]. Rather than being a sign of a fall in the family, a new study has shown that these shifts signify an increase in the diversity of family structures [28]. The political and conceptual significance of 'the family' is a major focus of this research, which builds on feminist challenges to the premise that a self-evident, naturalized family form is the norm [29-34]. The meaning of family has been questioned in recent empirical research that uses a broader definition than the conjugal heterosexual couple with children. Non-heterosexuals may use the term "families of choice," for example, to express the emotional ties they share with their non-heterosexual friends and associates [35-44].

Intimate relationships have been a recent focus of sociological theory [45]. The heterosexual pair, on the other hand, is the focus of attention. Couple relationships are supposed to be self-evident in these interpretations of the psychological necessity and centrality asserted for intimate and intimacy [46-66]. Feminist writing has argued against this kind of "naturalization" of heterosexuality [47]. Furthermore, assuming that a dyadic relationship is necessary ignores the relationships of people who are not a part of a (hetero) sexual relationship. Intimacy, according to Jamieson, does not have to be limited to a 'pure connection' and can exist in any type of close interaction [48-51]. Expansion of our ability to imagine different types of social relationships increases the possibility of "plural paths" to intimacy; giving preference to the (hetero)sexual couple restricts our ability to be creative in our dating lives and denies us the chance to form primary relationships that are not sexual [52-57].

Increasing individualism has received "widespread academic backing," according to Lewis, who claims that "family transformation can be explained in part by rising individualism." On the other hand, individualism takes on numerous meanings depending on your perspective on the self and the role of agency. Giddens' optimistic account develops new concepts on the concept of self-reflexive self, and he assumes that agents negotiate sexual and emotional equality relationships [58-66]. Others, on the other hand, believe that the rise in the number of people living single lives is more a result of cultural influences that weaken the foundations of long-term relationships [67]. According to the modern market economies compel men and women to construct lives of their own "at the cost of commitments to family, relations, and friends," which they attribute to family transformations [68-71].

An investigation of how singleness is felt is an open-ended question. 'Pro-family' discourses, on the other hand, often equate women who refuse to marry and have children with being morally guilty [72-75]. For single women, the risk of being portrayed as overtly self-centered is greater than for those in a long-term relationship. Studies show that unmarried women without children are viewed as selfish, lonely, and neglecting their responsibilities when depicted in popular culture as the epitome of the modern spinster [76-81].

Other research on never-married women supports the major role played by contemporary spinsters' families and social networks [82-89]. This paper depends on such research. However, for this dissertation, the focus is on the mother-daughter interactions of contemporary spinsters [90].

Traditionally, the term "spinsterhood" has been used to refer to women who have no husbands or children of their own and are left to care for their parents and other relatives. However, the socioeconomic circumstances of the women in this study represent broader social changes often interpreted as signs of a "decline" in family values, such as women working, living alone, having their children, and being single [91-97].

Feminism has highlighted the importance of the private domain in the reproduction of gender identity, and caring has long been regarded as a normative aspect of femininity. An important topic in feminism is how the individuality of women is sacrificed to the 'constitutive definitions' of their identity as family members, daughters, wives, mothers, etc. Feminism has addressed many of the injustice's women encounter in social relationships [98-111].

The feminist movement, on the other hand, has long criticized western liberal democracies' 'individualism,' which they see as gender-specific and blind to the social relations of power within which it operates [112]. It has been shown that the idea of an autonomous self-based on masculinist ideals of the self is a myth; rather, people are interdependent since their development necessitates a relationship with others [113-121]. Individualism based on an emphasis on masculinity obscures women's essential role in caring for others. People are socially rooted and molded by a complex of overlapping social variables, such as race, class, gender, and ethnicity, which are recognized in this study. In contrast to a vision of individualism that prizes substantive independence, relational autonomy emphasizes the importance of caring for and being responsible for others as a result of one's dependency on and interconnection with them in relational relationships [122-131].

Caring work comprises both real and visual components as a 'labour of love' Feminists working on social policy and those advocating a caring ethic say unpaid employment should be revalued. Those who aim to avoid reifying caring as a feminine trait have called for a care ethic and a justice ethic [132-143].

This research examines modern spinsters' caregiving responsibilities and shows that societal developments such people living alone or remaining single don't lessen caring requirements in intimate relationships; rather, the data reflect caring and responsibility. This questions how gendered norms influence women. This research demonstrates the progressive potential of a wide range of family practises, according to the authors [144].

Define singleness. Singleness is a dynamic category due to the changing nature of partnership status and the rise of cohabitation. Never-married does not prevent cohabiting, but singleness signifies never-married. It also refers to the separated and divorced [145-151].

Another issue is the vocabulary used to characterize single women who have never married: labels like "spinster," "old maid," and "celibate" may today be seen as derogatory or inaccurate, yet referring to someone as "never-married" stigmatizes them because of their lack of a spouse. Research on women who have never been married, such as those who have been widowed or divorced, is common [152-157]. For this study, being single is defined as having never been married or been in a cohabiting relationship. These women are referred to as "spinsters" in this publication, while "single" refers to research covering widowed and divorced women [158-161].

A 'life-history' technique was used to conduct semi-structured interviews. All research procedures are based on and framed by a certain understanding of the social and how the social might be known [162-

168]. Qualitative interpretative research methodologies have come to be viewed as 'quintessentially feminist. Women's caregiving interactions were analyzed using a specific set of discourses obtained from interviews conducted in an entirely different cultural context from the one in which they occurred [169].

The dangers of generalizing can be avoided by examining the specifics of various racial, social, and gendered structures. This research study is not meant to represent all single women but rather to focus on a specific group of thirty-seven white heterosexual spinsters over the age of 35 from various socioeconomic backgrounds. They all described themselves as single and hadn't been in a cohabiting relationship for at least five years. The non-cohabiting relationships of three women were defined as "intermittent" or "casual," and none of the women involved had any intention of the relationships developing into cohabitation. Pseudonyms were used during the interviews, which were conducted primarily in India's central belt.

Spinsterhood has traditionally been seen as an appropriate justification for caring for one's parents or other members of one's family while yet remaining under one's family's authority. A "family strategy" of keeping one daughter at home to guarantee the well-being of parents in the absence of a welfare state has been used to explain previous findings on the parental responsibilities of spinsters.

When it comes to taking care of parents, some women interviewed for this study had a variety of methods at their disposal. Three ladies stayed with their parents until they died, but others had their parents move into their homes or be nearby. An additional woman took care of her ailing mom by spending three days a week at her house.

When it came to having a baby, seven participants were moms; two had accidental pregnancies, one had a baby while living with the father, one had a baby while in a cohabiting relationship, and another while in a non-cohabiting relationship. Adoption and artificial insemination allowed three women to 'select into motherhood.' No precise information exists about "solo mothers," women who choose to have children without a partner. This sample of solo mothers did not match those typically younger, poorer, less likely to be employed, and more likely to be on benefits. The solo mothers' in this sample were in their thirties and forties when their children were born and earned more than the average salary when working full-time.

Overwhelmingly, most of those polled were single or had been before they became parents. Unmarried women have traditionally resided in the homes of their employers or other family members, although living alone has become more common in recent decades. Seven of the ladies resided in public housing, while the other four rented privately. Most participants were employed, but not always full-time or well-paid. This can be considered as a crucial part of financial stability for women who rely on their earnings in an environment where the gender pay gap continues. Women's economic marginality and dependency on government handouts shows that working doesn't guarantee financial freedom.

Those who live alone have been viewed as 'in a strikingly isolated, lonely, and consequently vulnerable circumstance.' But the interviewees reported that living alone was a wonderful experience and, in some cases, a source of great joy. Overwhelmingly, most women surveyed said they preferred living alone and had no immediate plans. Over the last two decades, the percentage of Westerners living alone has climbed dramatically, and current projections anticipate the number of single-person homes will reach 35% in 2015. According to recent studies, the rise in the number of people living alone can be attributed to both demographic changes and a shift in that predisposition.

Women caring for both parents and children had made crucial decisions, such as where to live and how often they worked, to meet their obligations. A number of the women's acts hinted that they had paid a high price for their caregiving responsibilities, but they were never explicitly stated. Most of the women who had taken care of their parents spoke highly of their readiness to do so and their joy in doing so. Because motherhood is seen as a normal part of femininity, it may not be subjected to the same scrutiny as a spinster's connection with her elderly parents, which explains why participants who were mothers did not talk about their children's care in terms of joy and willingness. Sharing a home, especially with one's parents, was often portrayed as a 'defensive' experience, focusing on reciprocity and maintaining one's independence.

According to the findings, some single women went above and above in their efforts to help their parents out of love and a sense of obligation. The interviews also show how women's lives are shaped by their efforts to provide care for others. Choices on where to live, how much time to work, and whether to 'wait' other plans like traveling or moving abroad were all tied to the participants' feelings of responsibility to their parents. On the other hand, taking care of aging parents was not seen as a hardship, and in some cases, it was seen as a pleasure.

It's easy to see how women's lives are affected by their "caring" roles, as demonstrated by the seven mothers who participated in this study. Most parents were or were taking care of the bulk of their children. As a result, two moms with pre-school-aged children used a mix of professional and informal childcare, while one child's father also provided occasional support. Aside from one mother, all the other mothers worked part-time or occasionally in casual occupations while caring for their children.

The results of the interviews show that not only does marital status affect expectations of family caregiving, but so does gender. Participants differed greatly in how they cared for their parents if they had siblings and felt that their unmarried status and/or sex was significant in molding who cared for their parents. According to several participants, unmarried children were expected to take care of their parents. As an unmarried, childless daughter, some people had this expectation in mind. Several interviewees said they felt pressured to care for their parents since they were single.

Feminist scholarship has focused on the latent power imbalances within an ideologically enthroned family. Others reject the idea that families provide moral and financial support; rather, these interviews back feminist perspectives on social and economic disparities linked to families.' Some examples in the literature show that women have cut off all ties to their families of origin. Still, their reports show that this was not a decision taken lightly and was seen more as a necessary response to an unworkable family environment. Many of these women's freedom is due to societal changes, such as greater engagement in the workforce and a more generous assistance system. Various settings, such as gendered expectations, familial ties, and the material possibilities available, shape the 'choices' that individuals can make, as shown in these interviews.

This study investigates single women's roles as daughters and mothers to analyse assertions about growing individuality and current changes in familial and societal ties. People's choice for independence and autonomy over marriage and parenthood has been seen as a "family decline." Increasing single living or remaining unmarried is perceived as a loss in commitment and obligation to others, with severe social implications.

According to this study's findings, contemporary spinsters are more than happy to take on the

responsibility of caring for their parents and young children. There is no evidence of a decrease in people's commitment to others, but rather an increase in how caring interactions are carried out. It's impossible to adequately account for the practises and meanings of the various interpersonal connections in which individuals may be embedded if one focuses solely on these interactions. Caring practises of spinsters as daughters and mothers challenge notions about traditional family hegemony and declining commitment and obligation to others due to sociological and cultural changes in contemporary Western societies today.

Instead of predicting the demise of the nuclear family, this study shows that people can continue to 'build' close relationships, as evidenced by the women who chose to become mothers and the women who elected to limit contact with their extended families. In the concept of 'families of choice,' people can also opt out of long-term partnerships. Caring obligations and duties may be increasingly subject to negotiation, but they do not change unpredictably. Some women may have more alternatives now that society has changed, but such options are not unrestricted or unimportant. According to Jamieson's theory, a person's relationships are not often influenced solely by what they find pleasurable.

This study supports a contextual view of 'choice'; social ties are modified by gender, and women are positioned differently in the material, social, and emotional spheres. Many research have studied gendered moral understandings in care responsibilities. This research reveals that gender and partnership status affect family expectations regarding caring. Historically, spinsters couldn't 'balance' spouse and child needs with family duties. According to author interviews, spinsters are expected to care for their ageing parents. Thus, decisions are impacted by expectations.

Individualism's impact on personal relationships is challenged by the caregiving responsibilities performed by contemporary spinsters in this study. Research reveals that the individuality model on which these are founded may be fundamentally flawed. For women, the role of caring cannot be well explained by Giddens' image of the personal realm as emancipated from the requirements of reproduction and kinship and adults opting to continue relationships only if they remain individually advantageous. However, early work seemed to "equate processes of individualization with the abandoning of ethics and unbridled self-interest," which has sought to dispel in more recent work. Studying spinsters as moms and daughters reveals a more interdependent notion of the individual that "may require a more relational sense of self, that understands personhood as intimately bound up with others," according to this research.

## Conclusion

Women's social connections benefit from the concept of relational autonomy, according to this study. As a result of this research on contemporary spinsters' familial ties, it is clear that an ethical framework that incorporates both care and justice is essential if people are seen as interdependent and interconnected. The preservation of particular interpersonal ties, regardless of the consequences to the women involved, must also be questioned as part of this process. Increasing educational and employment prospects for women in modern western nations have freed many women from the shackles of unhealthy romantic relationships. The earlier empirical study suggests that modern single women strive to strike a balance between their want for intimacy and their demand for independence by forming symmetrical connections, "not as lonely heroes of their own lives but in interaction with others.

## References

1. Roona Simpson, Contemporary Spinsters In The New Millennium: Changing Notions Of Family And Kinship, New Working Paper Series, Issue 10, July 2003, ISSN No:1470-8515.
2. Friedman, M. 2000 'Autonomy, Social Disruption, and Women' in Mackenzie and Stoljar (eds) Relational Autonomy: Feminist Perspectives on Autonomy, Agency, and the Social Self, New York and Oxford: Oxford University Press.
3. Giddens, A. 1992. The Transformation of Intimacy: Sexuality, Love and Eroticism In Modern Societies. Oxford: Polity Press
4. Gilligan, C. 1992 'In A Different Voice: Psychological Theory and Women's Development', in Humm, M. (ed.) 1992 Feminisms: a Reader, London: Harvester Wheatsheaf
5. Jamieson, L. 1999. 'Intimacy Transformed? A Critical Look At The 'Pure Relationship'. Sociology Vol. 33, No. 3, August, pp. 477-494.
6. Jeffreys, S. 1985. The spinster and her enemies: feminism and sexuality 1880-1930. London, Boston and Henley: Pandora.
7. Kiernan, K. 1999. 'Cohabitation in Western Europe'. Population Trends 96, Office for National Statistics, Summer.
8. Ogden, P. Hall, R. and Hill, C. 1997 'The Pattern and Structure of One-Person Households in England and Wales and France', International Journal of Population Geography, Vol. 3, pp. 161-181
9. Ribbens McCarthy, J. and Edwards, R. 2001 'Illuminating Meanings of 'the Private' in Sociological Thought', in Sociology, V35, No.3, August, Cambridge University Press
10. Simon, B. 1987 Never Married Women Philadelphia: Temple University Press Smart, C. and Neale, B. 1999 Family Fragments? Cambridge: Polity Press
11. Smart, C. (ed.) 1992 Regulating Womanhood: Historical Essays On Marriage, Motherhood And Sexuality, London and New York: Routledge
12. Somerville, J. 2000. Feminism And The Family: Politics And Society In The UK And USA. Hampshire: MacMillan Press Ltd.
13. Spicksley, J. 2001. The Early Modern Demographic Dynamic: Celibates And Celibacy In Seventeenth-Century England. Unpublished PhD, University of Hull Stein, P. (ed.) Single Life: Unmarried Adults in Social Context, New York: St. Martin's Press.
14. Van Every, J. 1999. 'From Modern Nuclear Family Households To Post Modern Diversity? The Sociological Construction Of 'Families'. In Wright and Jagger. (eds.) Changing Family Values, London: Routledge.
15. Vicinus, M. 1985. Independent Women: Work And Community For Single Women: 1850-1920. London: Virago.
16. Weeks, J., Donovan, C. and B. Heaphy. 1996. Families Of Choice: Patterns Of Non-Heterosexual Relationships, A Literature Review. London: South Bank University Press.

17. Rameez and M.A.M. Fowsar, "An empirical survey on factors affecting citizens' trust in public institutions in the Eastern Province of Sri Lanka," *Journal of Politics and Law*, vol. 11, no. 2, p. 88, 2018.
18. Rameez, M.A.M. Fowsar and N. Lumna "Impact of Covid-19 on higher education sectors in Sri Lanka: a study based on South Eastern University of Sri Lanka," *Journal of Educational and Social Research*, vol. 10, no. 6, p. 341, 2020.
19. M.A.M. Fowsar, M.A.M. Rameez and A. Rameez "Muslim minority in post-war Sri Lanka: a case study of Aluthgama and Digana violence," *Academic Journal of Interdisciplinary Studies*, vol. 9, no. 6, p. 56, 2020.
20. Rameez, "English language proficiency and employability of university students: a sociological study of undergraduates at the Faculty of Arts and Culture, South Eastern University of Sri Lanka (SEUSL)," *International Journal of English Linguistics*, vol. 9, no. 2, p. 199, 2019.
21. Rameez, "Political participation of women in local governance: a case study of selected local government bodies in Eastern Sri Lanka," *Journal of Asian and African Studies*, vol. 53, no. 7, pp. 1043-1061, 2018.
22. M.A.M. Fowsar, "Local democratic crises in Sri Lanka: a study based on Kalmunai Municipal Council," *Journal of Educational and Social Research*, vol. 10, no. 5, p. 34, 2020.
23. M.A.M. Fowsar, N.K.K. Raja and M.A.M. Rameez, "COVID-19 pandemic crisis management in Sri Lanka. slipping away from success", in *Times of Uncertainty: National Policies and International Relations under Covid 19 in Southeast –Asia and Beyond*, D. Brisen, T.T.T. Nguyen and Q.M. Pham Eds. Germany: Nomos, 2022, pp. 401-422.
24. M. Raja and G. G. Lakshmi Priya, "Using virtual reality and augmented reality with ICT tools for enhancing quality in the changing academic environment in COVID-19 pandemic: An empirical study," in *Technologies, Artificial Intelligence and the Future of Learning Post-COVID-19*, Cham: Springer International Publishing, 2022, pp. 467–482.
25. M. Raja and G. G. L. Priya, "An analysis of Virtual Reality usage through a descriptive research analysis on school students' experiences: A study from India," *Int. j. early child. spec. educ.*, vol. 13, no. 2, pp. 990–1005, 2021.
26. M. Raja, K. Srinivasan, and S. Syed-Abdul, "Preoperative virtual reality based intelligent approach for minimizing patient anxiety levels," in *2019 IEEE International Conference on Consumer Electronics - Taiwan (ICCE-TW)*, 2019.
27. M. Raja and G. G. L. Priya, "Conceptual origins, technological advancements, and impacts of using Virtual Reality technology in education," *Webology*, vol. 18, no. 2, pp. 116–134, 2021.
28. M. Raja and Lakshmi Priya GG, "Factors Affecting the Intention to Use Virtual Reality in Education," *Psychology and Education*, vol. 57, no. 9, pp. 2014–2022, 2020.
29. Niteesh Kumar Upadhyay and Mahak Rathee , "Protection Of Cultural Property Under International Humanitarian Law: Emerging Trends" *Brazilian Journal of International Law* Volume 17, No.3 , pp.390-409.
30. Upadhyay N.K. *Bride Trafficking in India: Aspects, Causes and Potential Solutions*. BRICS Law Journal. 2021;8(3):67-92.



31. Niteesh Kumar Upadhyay, Mahak Rathee (2022). Cyber Security in the Age of Covid-19: A Timeline and Analysis of Cyber-Crime and Cyber-Attacks during the Pandemic. *Medicine, Law & Society*, 15(1), 89-106.
32. Niteesh Kumar Upadhyay, "New Methods of Teaching Law Problems & Perspectives "Proceedings of IYSW, (2020), vol. 9, pp 376-396.
33. Niteesh Kumar Upadhyay, Mahak Rathee, An Analysis of Corporate Social Responsibility in India Withspecial Reference to Covid-19 Situation, *Revista do Curso de Direito da Universidade Candido Mendes*, Vol. 1 no. 1, 2021, p. 42-61.
34. N.Andiyappillai and T.Prakash, "Implementing Warehouse Management Systems in Logistics: A Case Study," *Journal of Logistics, Supply Chain and Retail Management*, Vol.2, Issue 1, 12-23, Feb. 2019.
35. N.Andiyappillai, "Data analytics in warehouse management systems (WMS) implementations—a case study," *International Journal of Computer Applications*, Vol.181, Issue 47, 14-17, Apr 2019.
36. N.Andiyappillai and T.Prakash, "Latest Developments in Logistics and Supply Chain Systems Implementations," *International Research Journal on Advanced Science Hub*, Vol.2, Issue 3, 12-17, Mar. 2020.
37. N.Andiyappillai, "Digital Transformation in Warehouse Management Systems (WMS) Implementations," *International Journal of Computer Applications*, Vol.177, Issue 45, 34-37, Mar 2020.
38. N.Andiyappillai, "Factors Influencing the Successful Implementation of the Warehouse Management System (WMS)," *International Journal of Computer Applications*, Vol.177, Issue 32, 21-25, Jan 2020.
39. N.Andiyappillai, "Standardization of System Integrated Solutions in Warehouse Management Systems (WMS) Implementations," *International Journal of Computer Applications*, Vol.178, Issue 13, 6-11, May 2019.
40. N.Andiyappillai, "An Analysis of the Impact of Automation on Supply Chain Performance in Logistics Companies", *IOP Conference Series: Materials Science and Engineering*, Vol.1055, Issue 012055, 2021.
41. N.Andiyappillai, "Contribution of Data Analytics to Logistics and Supply Chain Industry", *Journal of Logistics, Supply Chain and Retail Management*, Vol.4, Issue 2, 1-8, Oct. 2021
42. N.Andiyappillai, "An Analysis of Realization of Supply Chain Systems Execution", *International Journal of Innovative Research in Science, Engineering and Technology*, Vol.9, Issue 3, 726-731, Mar.2020
43. S. Kumar, and S. Mookiah, " Contemporary Scenario of Small Scale Industries in Tirunelveli District," *Journal of Xi'an University of Architecture & Technology*, vol. XII, no. II, p. 1155, 2020.
44. Waleed, ZongguoMa, FazliWahid, & S.Kumar, " Measuring the Perception of Chinese Residents in Response to Influence of COVID-19 on Tourism Industry in China," *Linguistica Antverpiensia*, no. 02, p. 2182, 2021.

45. Suriya Hamid, and S. Kumar, " Desicision Making Capability On Personal Life Along With Work Among Service Sector Women," International Journal of Pharmaceutical Research, vol. 13, no. 2, p. 4114, 2021.
46. S. Kumar, and Suriya Hamid, " The Role of Cultural Organizations, Leadership Services, Job Satisfaction towards Organizational Citizenship Behavior: A Path Analysis Study in Private Primary Schools," International Journal of Pharmaceutical Research, vol. 13, no. 2, p. 4120, 2021.
47. S. Kumar, and Suriya Hamid, " Neuro Robotic Learning Methodology: Successful Experiences through Robotics at the Initial, Primary and Secondary Level," International Journal of Pharmaceutical Research, vol. 13, no. 2, p. 4135, 2021.
48. T. Akila, A. Vadivukarasi, M. Swathi, A. Ramya, B. Poorani, and S.Kumar, " Search for Identity in Edward Albee's Who's Afraid of Virginia Woolf?," Journal of Positive School Psychology, vol. 06 no. 04, p. 9272, 2022.
49. S. Kumar, and U. Varsha, " Economic and Health Impact of Migrant Workers during Covid-19 Period in Musiri Block at Tiruchirappalli District," International Journal of Early Childhood Special Education (INT-JECS), vol. 14, no. 3, p. 9650, 2022.
50. S. Kumar, " A Study on the Impact of Covid – 19 Lockdown in Manapparai Steel Industry," Turkish Online Journal of Qualitative Inquiry (TOJQI), vol. 12, no. 4, p. 1329, 2021.
51. S. Kumar, " The Impact Of Gaja Cyclone On Paddy And Rural Infrastructure In Thettanviduthi Village, (Pudukkottai District) Tamil Nadu, India," Journal of Elementary Education Online, vol. 20, no. 6, p. 2867, 2021.
52. Guiamalon, T. S., & Hariraya, P. G. (2021). The K-12 Senior High School Programl: The Case Of Laboratory High School, Cotabato City State Polytechnic College, South Central Mindanao, Philippines. IJASOS-International E-journal of Advances in Social Sciences, 7(19), 391-399.
53. Kudto, N. M., Lumapenet, H. T., & Guiamalon, T. S. (2022). Students' Learning Experiences in The New Normal Education. Central Asian Journal of Theoretical & Applied Sciences, 3(5), 221-233.
54. Guiamalon, T. (2021). Teachers Issues and Concerns on The Use of Modular Learning Modality. IJASOS-International E-journal of Advances in Social Sciences, 7(20), 457-469.
55. Guiamalon, T. S. (2021). Graduate Education Programs: Its Relation to Graduates Work Competencies In The Workplace. IJAEDU-International E-Journal of Advances in Education, 7(19), 58-66.
56. Guiamalon, T. S. Social and Economic Development: State Universities and Colleges'(Suc's) Contribution Creativity Skills Of The Students In Recycling. Globus Journal of Progressive Education. Vol 12 / No 1 / Jan-Jun 2022 ISSN: 2231-1335
57. Guiamalon, T. S., Sandigan, D. A., & Dilna, S. G. The Impact of Alternative Learning System in Cotabato Division: A Case Study.
58. Guiamalon, Tarhata, et al. "Coping with COVID-19: How Public Secondary School Principals Adapt to the New Normal?." Guiamalon, TS, Lumapenet, HT (2022). Coping with COVID-19: How Public Secondary School Principals Adapt to the New Normal (2022): 2363-2367.

59. Guiamalon, T. (2021). Parental Interventions Towards Learners' mental Health In Times Of The Covid 19 Pandemic. *IJAEDU-International E-Journal of Advances in Education*, 7(20), 90-99.
60. Lumapenet, H. (2017). Influence of the Family on the Pupils' Reading Performance. Lumapenet, H. & Andoy, (2017), 21-22.
61. Kalipa, C. L., & Lumapenet, H. T. Customary Practices and Authorities in Conflict Resolution towards Peace Building of the Sultans, Rajahs and Datus of Buayan Sultanates in Southern Philippines.
62. Lumapenet, H. (2022). Multimedia: A Tool in Addressing the Reading Difficulties of Learners. Lumapenet, H., & Fronda, M, 2357-2362.
63. Lumapenet, H. (2017, September). Determinants of Bangsamoro Teacher's Identity. In Lumapenet, HT, & Sagadan, SA Determinants of Bangsamoro Teacher's Identity. 7th CEBU International Conference on Civil, Agricultural, Biological and Environmental Sciences (CABES-17) Sept (pp. 21-22).
64. Lumapenet, H. , & Usop, M. (2022). School Readiness towards the Delivery of Learning in the New Normal. *International Journal of Early Childhood Special Education (INT-JECSE)*, Vol 14, Issue 03 2022, 2629-2637.
65. J. Żywiołek, J. Rosak-Szyrocka, M. A. Khan, and A. Sharif, "Trust in Renewable Energy as Part of Energy-Saving Knowledge," *Energies*, vol. 15, no. 4, p. 1566, 2022, doi: 10.3390/en15041566.
66. J. Żywiołek, J. Rosak-Szyrocka, and B. Jereb, "Barriers to Knowledge Sharing in the Field of Information Security," *Management Systems in Production Engineering*, vol. 29, no. 2, pp. 114–119, 2021, doi: 10.2478/mspe-2021-0015.
67. S. Tiwari, J. Rosak-Szyrocka, and J. Żywiołek, "Internet of Things as a Sustainable Energy Management Solution at Tourism Destinations in India," *Energies*, vol. 15, no. 7, p. 2433, 2022, doi: 10.3390/en15072433.
68. J. Rosak-Szyrocka, J. Żywiołek, and M. Mrowiec, "Analysis of Customer Satisfaction with the Quality of Energy Market Services in Poland," *Energies*, vol. 15, no. 10, p. 3622, 2022, doi: 10.3390/en15103622.
69. J. Rosak-Szyrocka, J. Zywolek, A. Zaborski, S. Chowdhury, and Y.-C. Hu, "Digitalization of higher education around the Globe during covid-19," *IEEE Access*, p. 1, 2022, doi: 10.1109/access.2022.3178711.
70. Ravi Kumar Gupta, "A Study on Occupational Health Hazards among Construction Workers in India", *International Journal of Enterprise Network Management*. Vol. 12, No. 4, pp. 325-339, 2021.
71. Ravi Kumar Gupta, "Adoption of Mobile Wallet Services: An Empirical Analysis", *Int. J. of Intellectual Property Management*, 2022, DOI: 10.1504/IJIPM.2021.10035526
72. Ravi Kumar Gupta, "Utilization of Digital Network Learning and Healthcare for Verbal Assessment and Counselling During Post COVID-19 Period", *Technologies, Artificial*

- Intelligence and the Future of Learning Post-COVID-19. Springer Nature, Switzerland, pp. 117-134, 2022.
73. Eliwa, M. M. The effect of some different types of learning within training programs in terms of self-determination theory of motivation on developing self-Academic identity and academic buoyancy and decreasing of mind wandering among university students in Egypt. *Journal of Education -Sohag University*, 92(92), 1–29, 2021.
  74. Eliwa, M. M; Al Badri, A.H. Long and Short-Term Impact of Problem-Based and Example-Based STEM Learning on the Improvement of Cognitive Load among Egyptian and Omani Learners. *Journal of Scientific Research in Education (JSRE)- Ain Shams University*, 22(3), 713-742, 2021.
  75. Eliwa, M. M. The Effectiveness of Digital Transformation of Learning on Students' Learning Experience, Students' Engagement and Perceived Intellectual Competence: A Mixed-Method Approach. *Journal of Educational and Psychological Sciences- Fayoum University*, 15(3), 848-890, 2021.
  76. Eliwa, M. M; Alshoukary, H. A. (2022). Modeling Causal Relationships between Academic Adjustment, Academic Striving and Future Expectations on Psychological Resilience and Cognitive Modifiability among Elementary School Students. *Journal of the Faculty of Education Beni-Suef University(JFE)*, 19(116), 655-694. <https://dx.doi.org/10.21608/jfe.2022.242784>
  77. U. Zulfiqar, S. Mohy-Ul-Din, A. Abu-Rumman, A. E. M. Al-Shraah, And I. Ahmed, “Insurance-Growth Nexus: Aggregation and Disaggregation,” *The Journal of Asian Finance, Economics and Business*, vol. 7, no. 12, pp. 665–675, Dec. 2020.
  78. Al-Shqairat, Z. I., Al Shraah, A. E. M., Abu-Rumman, A., “The role of critical success factors of knowledge stations in the development of local communities in Jordan: A managerial perspective,” *Journal of management Information and Decision Sciences*, vol. 23, no.5, pp. 510-526, Dec. 2020.
  79. Abu-Rumman, Ayman. "Transformational leadership and human capital within the disruptive business environment of academia." *World Journal on Educational Technology: Current Issues* 13, no. 2 (2021): 178-187.
  80. Almomani, Reham Zuhier Qasim, Lina Hamdan Mahmoud Al-Abbadi, Amani Rajab Abed Alhaleem Abu Rumman, Ayman Abu-Rumman, and Khaled Banyhamdan. "Organizational Memory, Knowledge Management, Marketing Innovation and Cost of Quality: Empirical Effects from Construction Industry in Jordan." *Academy of Entrepreneurship Journal* 25, no. 3 (2019): 1528-2686.
  81. Alshawabkeh, Rawan, Amani Abu Rumman, Lina Al-Abbadi, and Ayman Abu-Rumman. "The intervening role of ambidexterity in the knowledge management project success connection." *Problems and Perspectives in Management* 18, no. 3 (2020): 56.
  82. Abu-Rumman, Ayman. "Gaining competitive advantage through intellectual capital and knowledge management: an exploration of inhibitors and enablers in Jordanian Universities." *Problems and Perspectives in Management* 16, no. 3 (2018): 259-268.
  83. Abu-Rumman, A. Al Shraah, F. Al-Madi, T. Alfalah, “Entrepreneurial networks, entrepreneurial orientation, and performance of small and medium enterprises: are dynamic capabilities the missing link?” *Journal of Innovation and Entrepreneurship*. Vol 10 Issue 29, pp 1-16. Jul 2021.

84. A.Al Shraah, A. Abu-Rumman, F. Al Madi, F.A. Alhammad, A.A. AlJboor, "The impact of quality management practices on knowledge management processes: a study of a social security corporation in Jordan" *The TQM Journal*. Vol. ahead-of-print No. Issue ahead-of- print. Apr 2021.
85. Abu-Rumman, A. Al Shraah, F. Al-Madi, T. Alfalah, "The impact of quality framework application on patients' satisfaction", *International Journal of Human Rights in Healthcare*, Vol. ahead-of-print No. Issue ahead-of- print. Jun2021.
86. Zafar, S.Z., Zhilin, Q., Malik, H., Abu-Rumman, A., Al Shraah, A., Al-Madi, F. and Alfalah, T.F. (2021), "Spatial spillover effects of technological innovation on total factor energy efficiency: taking government environment regulations into account for three continents", *Business Process Management Journal*, Vol. 27 No. 6, pp. 1874-1891.
87. S. Kamal, D. Rahman and D. Singh, "Covid-19 Related Factors Associated with Antenatal Care in Rural Bangladesh: A qualitative study", *Asia Pacific Journal of Health Management*, vol. 17, no. 1, 2022.
88. S. Joghee, A. Dubey and S. Singh, "Investigation of green marketing practices of UAE hypermarkets", *International Journal of Enterprise Network Management*, vol. 12, no. 4, p. 367, 2021.
89. S. Singh, S. Mondal, L. Singh, K. Sahoo and S. Das, "An Empirical Evidence Study of Consumer Perception and Socioeconomic Profiles for Digital Stores in Vietnam", *Sustainability*, vol. 12, no. 5, p. 1716, 2020.
90. Desfiandi, S. Suman Rajest, P. S. Venkateswaran, M. Palani Kumar and S. Singh, "Company Credibility: A Tool To Trigger Positive Csr Image In The Cause-Brand Alliance Context In Indonesia", *Humanities & Social Sciences Reviews*, vol. 7, no. 6, pp. 320-331, 2019.
91. Singh, V. Shukla and S. Singh, "An Empirical Study of Shift from SMS to Chat-App among University Student", *International Journal of Recent Technology and Engineering*, vol. 7, no. 64, pp. 1-6, 2019.
92. S. Singh and S. Das, "Impact of post-merger and acquisition activities on the financial performance of banks: a study of Indian private sector and public sector banks", *Revista Espacios*, vol. 39, no. 25, pp. 25-40, 2018.
93. Raja and S. Singh, "Event Study on Appointment and Removal of Chairman: Case of Tata Group", *Amity Business Review*, vol. 19, no. 1, pp. 1-9, 2018.
94. S. Singh and S. Kukunuru, "Corporate Social Responsibility and Impact on Profitability of Banks in the United Arab Emirates", *Middle East Journal of Business*, vol. 12, no. 1, pp. 12-22, 2017.
95. S. Singh and S. Agarwal, "Analyzing the Medical and Non-Medical Aspects of Medical Consultation in the City of Visakhapatnam", *World Family Medicine Journal/Middle East Journal of Family Medicine*, vol. 13, no. 3, pp. 12-19, 2015.
96. S. Agarwal and S. Singh, "Customer Progression and Perception about Premium Men's Apparel Brands: A Case of Indian Male Professionals", *Middle East Journal of Business*, vol. 10, no. 1, pp. 50-56, 2015.

97. Singh, S. (2022). Process improvement approach to transform online business education in the post-COVID world. *Journal of Learning for Development*, 9(2), 363-369.
98. Suman Rajest S, P. Suresh, "An Analysis of Chetan Bhagat's Revolution -2020: Love, Ambition, Corruption" in *International Journal of English Language, Literature in Humanities*, Volume: V, Issue IX, September 2017, Page No.: 52-62.
99. Suman Rajest S, P. Suresh, "Galapagos: Is Human Accomplishment Worthwhile" in *Online International Interdisciplinary Research Journal*, Volume: VII, Special Issue II, September 2017, Page No.: 307-314.
100. Suman Rajest S, P. Suresh, "The white Tiger by Aravind Adiga: Depiction of Fermentation in Society" in *International Journal of Information Movement*, Volume: II, Special Issue VI, October 2017, Page No.: 189-194.
101. Suman Rajest S, P. Suresh, "Confrontation on Modernism or Postmodernism Changes after the World War" in *New Academia: An International Journal of English Language, Literature and Literary Theory*, Volume: VII, Special Issue I, January 2018, Page No.: 50-76.
102. Suman Rajest S, P. Suresh, "The Post-War Novel as Catch-22: The Chronology and Ex-P.F.C Winter Green" in *International Journal of Research Culture Society*, Volume: II, Special Issue II, February 2018, Page No.: 64-68.
103. S. Suman Rajest; Anbarasi, "The Postwar Novel as Postmodern: Billy Pilgrim's Imagination and the Critical Tendency towards Teleology, Slaughterhouse – Five", *International Journal of Advance Research, Ideas and Innovations in Technology*, Volume 3, Issue 4, pp.37-41 (2017).
104. Suman Rajest S, P. Suresh, "Necessary Heads Which are Used for Writing a Scholarly Journal" in *New Man International Journal of Multidisciplinary Studies*, Volume: V, Issue III, March 2018, Page No.: 5-21.
105. Suman Rajest S, P. Suresh, "Impact of 21st century's different heads of learning skills for students and teachers" in *International Journal of Multidisciplinary Research and Development*, Volume: V, Issue IV, April 2018, Page No.: 170-178.
106. Suman Rajest S, P. Suresh, "21st Century Learners' Student-Centered Learning Various Stages" in *International Conference, Age and Content in Journey of Language by VISTAS (Tamil Department)*, Volume: I, Issue I, April 2018, Page No.: 474-492. (International Conference Paper)
107. Suman Rajest S, P. Suresh, "American Postmodern Novelist Thomas Pynchon's The Crying of Lot 49: Structure and Absurd Realism" in *Proceedings of the IOSRD, 73rd International Conference on Future Trends in Engineering and Business*, Volume: 73, May 2018, Page No.: 32-41.
108. Suman Rajest S, P. Suresh, "The "Four Cs" Education For 21st Century's Learners" in *Research Guru Online Journal of Multidisciplinary Subjects*, Volume: XII, Issue I, June 2018, Page No.: 888-900.
109. Jerusha Angelene Christabel G, Suman Rajest S, "A Short Review on Fragmented Narration in Select Works of Sarnath Banerjee", *American Journal of Social and Humanitarian Research*, Vol. 3 No. 4, pp. 12-31, (2022).

110. Rajest, D. S. S., & G, J. A. C. (2022). A Brief on Past and Present a Tug of War in the Select Works of Kurt Vonnegut. *Central Asian Journal of Literature, Philosophy And Culture*, 3(4), 59-79.
111. G, J. A. C., & Rajest, D. S. (2022). Fragmented Narration in Corridor's Thematic, Language and Imagery. *Central Asian Journal Of Arts And Design*, 3(4), 15-37.
112. Steffi. R, D.K. Sharma, S. Suman Rajest, R. Regin, A. J. Obaid, and G. Jerusha Angelene Christabel, "Perceptron in Supervised, Semi-Supervised, Unsupervised Learning and Artificial Neural Network", *CAJOTAS*, vol. 3, no. 5, pp. 176-199, May 2022.
113. A, V. V. ., T, S. ., S, S. N. ., & Rajest, D. S. S. . (2022). IoT-Based Automated Oxygen Pumping System for Acute Asthma Patients. *European Journal of Life Safety and Stability* (2660-9630), 19 (7), 8-34.
114. Suman Rajest S, P. Suresh, "The Problematicizing of History Concentrated on The Poetics of Historiographic Metafiction by Postmodernism and How It Influences Postmodern Fiction" in *International Journal of Pure and Applied Mathematics (IJPAM)*, Volume: 119, Special Issue 16, July 2018, Page No.: 2457-2469.
115. Suman Rajest S, P. Suresh, "Themes and Techniques from Modernism to Postmodernism: The Dubious Continuance of Gravity's Rainbow" in *International Journal of Pure and Applied Mathematics*, Volume: 119, Special Issue 16, July 2018, Page No.: 2373-2384.
116. Suman Rajest S, P. Suresh, "Absurd Realism and Structure in Thomas Pynchon's The Crying of Lot 49" in *Journal of Advanced Research in Dynamical and Control Systems*, Volume: 10, Special Issue 11, August 2018, Page No.: 571-580.
117. Suman Rajest S, P. Suresh, "The Deducible Teachings Of Historiographic Metafiction Of Modern Theories Of Both Fiction And History" in *Eurasian Journal of Analytical Chemistry*, Volume: 13, Special Issue 04, July 2018, Page No.: 110-117.
118. Suman Rajest S, P. Suresh, "The Dialog on Postmodernism Intertextuality, Parody, The Talk of History and The Issue of Reference" in *International Journal of Recent Technology and Engineering*, Volume-7, Issue-5C, February 2019, Page No.: 244-7.
119. Suman Rajest S, P. Suresh, "An Analysis of Psychological Aspects in Student-Centered Learning Activities and Different Methods" in *Journal of International Pharmaceutical Research*, Volume: 46, Special Issue 01, March 2019, Page No.: 165-172.
120. Md. Salamun Rashidin, Sara Javed, Bin Liu, Wang Jian, Suman Rajest S, "Insights: Rivals Collaboration on Belt and Road Initiatives and Indian Recourses" in *Journal of Advanced Research in Dynamical and Control Systems*, Volume: 11, Special Issue 04, 2019, Page No.: 1509-1522.
121. Dr. P.S. Venkateswaran, Dr. A. Sabarirajan, S. Suman Rajest And R. Regin (2019) "The Theory of the Postmodernism in Consumerism, Mass Culture and Globalization" in *The Journal of Research on the Lepidoptera* Volume 50 (4): 97-113
122. Desfiandi, A., Suman Rajest, S., S. Venkateswaran, P., Palani Kumar, M., & Singh, S. (2019). Company Credibility: A Tool To Trigger Positive CSR Image In The Cause-Brand Alliance Context In Indonesia. *Humanities & Social Sciences Reviews*, 7(6), 320-331.

123. K.B. Adanov, S. Suman Rajest, Mustagaliyeva Gulnara, Khairzhanova Akhmaral (2019), "A Short View on the Backdrop of American's Literature". *Journal of Advanced Research in Dynamical and Control Systems*, Vol. 11, No. 12, pp. 182-192.
124. Tribhuwan Kumar, S. Suman Rajest, Klinge Orlando Villalba-Condori, Dennis Arias-Chavez, K. Rajesh, M. Kalyan Chakravarthi, "An Evaluation on Speech Recognition Technology based on Machine Learning", *Webology*, Volume 19, Number 1, January, 2022, pp. 646-663.
125. S. Suman Rajest, D.K. Sharma, R. Regin and Bhopendra Singh, "Extracting Related Images from E-commerce Utilizing Supervised Learning", *Innovations in Information and Communication Technology Series*, pp. 033-045, 28 February, 2021.
126. Rao, A. N., Vijayapriya, P., Kowsalya, M., & Rajest, S. S. (2020). *Computer Tools for Energy Systems*. In *International Conference on Communication, Computing and Electronics Systems* (pp. 475-484). Springer, Singapore.
127. Gupta J., Singla M.K., Nijhawan P., Ganguli S., Rajest S.S. (2020) An IoT-Based Controller Realization for PV System Monitoring and Control. In: Haldorai A., Ramu A., Khan S. (eds) *Business Intelligence for Enterprise Internet of Things*. EAI/Springer Innovations in Communication and Computing. Springer, Cham
128. Sharma M., Singla M.K., Nijhawan P., Ganguli S., Rajest S.S. (2020) An Application of IoT to Develop Concept of Smart Remote Monitoring System. In: Haldorai A., Ramu A., Khan S. (eds) *Business Intelligence for Enterprise Internet of Things*. EAI/Springer Innovations in Communication and Computing. Springer, Cham
129. Rad, D., & Balas, V. E. (2020). A Novel Fuzzy Scoring Approach of Behavioural Interviews in Personnel Selection. *BRAIN. Broad Research in Artificial Intelligence and Neuroscience*, 11(2), 178-188.
130. Rad, D., Rad, G., Maier, R., Demeter, E., Dicu, A., Popa, M., ... & Mărineanu, V. D. (2022). A Fuzzy logic modelling approach on psychological data. *Journal of Intelligent & Fuzzy Systems*, (Preprint), 1-11.
131. Rad, D., & Rad, G. (2021). Going Agile, a Post-Pandemic Universal Work Paradigm-A Theoretical Narrative Review. *Postmodern Openings*, 12(4), 337-388.
132. Rad, D., & Rad, G. (2021). Theories of change in Agile Psychology. *Technium Soc. Sci. J.*, 21, 570.
133. Gao, T., & Liu, J. (2021). Application of improved random forest algorithm and fuzzy mathematics in physical fitness of athletes. *Journal of Intelligent & Fuzzy Systems*, 40(2), 2041-2053.
134. Paudel, P. K., Bastola, R., Eigenbrode, S. D., Borzée, A., Thapa, S., Rad, D., ... & Adhikari, S. (2022). Perspectives of scholars on the origin, spread and consequences of COVID-19 are diverse but not polarized. *Humanities and Social Sciences Communications*, 9(1), 1-11.
135. Rad, D., Redeş, A., Roman, A., Ignat, S., Lile, R., Demeter, E., ... & Rad, G. (2022). Pathways to inclusive and equitable quality early childhood education for achieving SDG4 goal—a scoping review. *Frontiers in Psychology*, 4306.



136. Rad, D., Magulod Jr, G. C., Balas, E., Roman, A., Egerau, A., Maier, R., ... & Chis, R. (2022). A Radial Basis Function Neural Network Approach to Predict Preschool Teachers' Technology Acceptance Behavior. *Frontiers in Psychology*, 13.
137. Rad, D., Balas, V. E., Marineanu, V. D., Maier, R. (2021). *Digital Wellbeing*. Berlin, Germany: Peter Lang Verlag. Retrieved Mar 29, 2022, from <https://www.peterlang.com/document/1137170>
138. Rad, D., Dughi, T., Maier, R., Egerău, A. (2022). *Applied Research in Digital Wellbeing*. Berlin, Germany: Peter Lang Verlag. Retrieved Mar 29, 2022, from 10.3726/b19309, <https://www.peterlang.com/document/1175495>
139. Ganguli S., Kaur G., Sarkar P., Rajest S.S. (2020) An Algorithmic Approach to System Identification in the Delta Domain Using FAdFPA Algorithm. In: Haldorai A., Ramu A., Khan S. (eds) *Business Intelligence for Enterprise Internet of Things*. EAI/Springer Innovations in Communication and Computing. Springer, Cham
140. Singla M.K., Gupta J., Nijhawan P., Ganguli S., Rajest S.S. (2020) Development of an Efficient, Cheap, and Flexible IoT-Based Wind Turbine Emulator. In: Haldorai A., Ramu A., Khan S. (eds) *Business Intelligence for Enterprise Internet of Things*. EAI/Springer Innovations in Communication and Computing. Springer, Cham
141. Balas-Timar, D. (2014). Is It Psychology About Linear Or Dynamic Systems?. *SEA-Practical Application of Science*, 2 (2), 189-196.
142. Balas-Timar, D. (2015). Relationship between job performance and job satisfaction viewed from the chaos theory perspective. *International Journal of Education and Research*, 3(3), 517-534.
143. Balas-Timar, D., & Ignat, S. (2015). Conceptual applicant screening model with fuzzy logic in industrial organizational contexts. *Procedia-Social and Behavioral Sciences*, 203, 257-263.
144. Chutimon Narawish, Dilip Kumar Sharma, S. Suman Rajest, R. Regin, "Importance of Cost Efficiency in Critical Aspect of Influences the Decision-Making Process in Banks", "Turkish Journal of Physiotherapy and Rehabilitation; 32(3), pp. 47184-47212, 2021.
145. D. Hemavathi, V. R. Kumar, R. Regin, S. S. Rajest, K. Phasinam and S. Singh, "Technical Support for Detection and Prediction of Rainfall," 2021 2nd International Conference on Smart Electronics and Communication (ICOSEC), 2021, pp. 1629-1634, doi: 10.1109/ICOSEC51865.2021.9591762.
146. D. K. Sharma, B. Singh, E. Herman, R. Regine, S. S. Rajest and V. P. Mishra, "Maximum Information Measure Policies in Reinforcement Learning with Deep Energy-Based Model," 2021 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2021, pp. 19-24, doi: 10.1109/ICCIKE51210.2021.9410756.
147. D. K. Sharma, B. Singh, M. Raja, R. Regin and S. S. Rajest, "An Efficient Python Approach for Simulation of Poisson Distribution," 2021 7th International Conference on Advanced Computing and Communication Systems (ICACCS), 2021, pp. 2011-2014, doi: 10.1109/ICACCS51430.2021.9441895.
148. D. K. Sharma, N. A. Jalil, R. Regin, S. S. Rajest, R. K. Tummala and T. N, "Predicting Network Congestion with Machine Learning," 2021 2nd International Conference on Smart Electronics

- and Communication (ICOSEC), 2021, pp. 1574-1579, doi: 10.1109/ICOSEC51865.2021.9591897.
149. Demeter, E., & Rad, D. (2020). Global life satisfaction and general antisocial behavior in young individuals: the mediating role of perceived loneliness in regard to social sustainability—a preliminary investigation. *Sustainability*, 12(10), 4081.
  150. F. Arslan, B. Singh, D. K. Sharma, R. Regin, R. Steffi and S. Suman Rajest, "Optimization Technique Approach to Resolve Food Sustainability Problems," 2021 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2021, pp. 25-30, doi: 10.1109/ICCIKE51210.2021.9410735.
  151. G. A. Ogunmola, B. Singh, D. K. Sharma, R. Regin, S. S. Rajest and N. Singh, "Involvement of Distance Measure in Assessing and Resolving Efficiency Environmental Obstacles," 2021 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), 2021, pp. 13-18, doi: 10.1109/ICCIKE51210.2021.9410765.
  152. Jappreet Kaur, Tejpal Singh Kochhar, Souvik Ganguli and S. Suman Rajest, "Evolution of Management System Certification: An overview", *Innovations in Information and Communication Technology Series*, pp. 082-092, 28 February, 2021.
  153. Jayakumar P., Suman Rajest S., Aravind B.R. (2022) An Empirical Study on the Effectiveness of Online Teaching and Learning Outcomes with Regard to LSRW Skills in COVID-19 Pandemic. In: Hamdan A., Hassanien A.E., Mescon T., Alareeni B. (eds) *Technologies, Artificial Intelligence and the Future of Learning Post-COVID-19. Studies in Computational Intelligence*, vol 1019. Springer, Cham. [https://doi.org/10.1007/978-3-030-93921-2\\_27](https://doi.org/10.1007/978-3-030-93921-2_27)
  154. R. Regin, S. Suman Rajest and Bhopendra Singh, "Spatial Data Mining Methods Databases and Statistics Point of Views", *Innovations in Information and Communication Technology Series*, pp. 103-109, 28 February, 2021.
  155. Rad, D. T., Dughi, T., Roman, A., & Ignat, S. (2019). Perspectives of Consent Silence in Cyberbullying. *Postmodern Openings*, 10(2), 57-73.
  156. Rad, D., & Demeter, E. (2019). Youth Sustainable Digital Wellbeing. *Postmodern Openings*, (4), 104-115.
  157. Rad, D., & Demeter, E. (2020). A Moderated Mediation Effect of Online Time Spent on Internet Content Awareness, Perceived Online Hate Speech and Helping Attitudes Disposal of Bystanders. *Postmodern Openings*, 11(2 Supl 1), 107-124.
  158. Rad, D., Balas, E., Ignat, S., Rad, G., & Dixon, D. (2020). A Predictive Model of Youth Bystanders' Helping Attitudes. *Revista romaneasca pentru educatie multidimensionala-Journal for Multidimensional Education*, 12(1Sup2), 136-150.
  159. Rad, D., Balas, V., Lile, R., Demeter, E., Dughi, T., & Rad, G. (2020). Statistical Properties of a New Social Media Context Awareness Scale (SMCA)—A Preliminary Investigation. *Sustainability*, 12(12), 5201.
  160. Rad, D., Dixon, D., & Rad, G. (2020). Digital Outing Confidence as a Mediator in the Digital Behavior Regulation and Internet Content Awareness Relationship. *BRAIN. Broad Research in Artificial Intelligence and Neuroscience*, 11(1), 84-95.

161. Rad, D., Egerau, A., Roman, A., Dughi, T., Balas, E., Maier, R., ... & Rad, G. (2022). A Preliminary Investigation of the Technology Acceptance Model (TAM) in Early Childhood Education and Care. *BRAIN. Broad Research in Artificial Intelligence and Neuroscience*, 13(1), 518-533.
162. Rajasekaran R., Rasool F., Srivastava S., Masih J., Rajest S.S. (2020) Heat Maps for Human Group Activity in Academic Blocks. In: Haldorai A., Ramu A., Khan S. (eds) *Business Intelligence for Enterprise Internet of Things*. EAI/Springer Innovations in Communication and Computing. Springer, Cham
163. Roman, A., Rad, D., Egerau, A., Dixon, D., Dughi, T., Kelemen, G., ... & Rad, G. (2020). Physical Self-Schema Acceptance and Perceived Severity of Online Aggressiveness in Cyberbullying Incidents. *Journal of Interdisciplinary Studies in Education*, 9(1), 100-116.
164. S. Suman Rajest, D.K. Sharma, R. Regin and Bhopendra Singh, "Extracting Related Images from E-commerce Utilizing Supervised Learning", *Innovations in Information and Communication Technology Series*, pp. 033-045, 28 February, 2021.
165. Souvik Ganguli, Abhimanyu Kumar, Gagandeep Kaur, Prasanta Sarkar and S. Suman Rajest, "A global optimization technique for modeling and control of permanent magnet synchronous motor drive", *Innovations in Information and Communication Technology Series*, pp. 074-081, 28 February, 2021.
166. Srivastava Y., Ganguli S., Suman Rajest S., Regin R. (2022) Smart HR Competencies and Their Applications in Industry 4.0. In: Kumar P., Obaid A.J., Cengiz K., Khanna A., Balas V.E. (eds) *A Fusion of Artificial Intelligence and Internet of Things for Emerging Cyber Systems*. Intelligent Systems Reference Library, vol 210. Springer, Cham. [https://doi.org/10.1007/978-3-030-76653-5\\_16](https://doi.org/10.1007/978-3-030-76653-5_16)
167. Demeter, E., Rad, D., & Balas, E. (2021). Schadenfreude and General Anti-Social Behaviours: The Role of Violent Content Preferences and Life Satisfaction. *BRAIN. Broad Research in Artificial Intelligence and Neuroscience*, 12(2), 98-111.
168. Rad, D., Dughi, T., & Demeter, E. (2019). The Dynamics of the Relationship between Humor and Benevolence as Values. *Revista romaneasca pentru educatie multidimensionala-Journal for Multidimensional Education*, 11(3), 201-212.
169. Balas-Timar, D., & Lile, R. (2015). The story of Goldilocks told by organizational psychologists. *Procedia-Social and Behavioral Sciences*, 203, 239-243.