



Case Studies of Architecture and Interior Design Studios

¹*S. Chinnadurai, ¹B.R. Benisha ²M. Ramachandran, ²Vimala Saravanan, ²Vidhya Prasanth

¹Sigma College of Architecture, kanyakumari, Tamil Nadu, India

²REST Labs, Kaveripattinam, Krishnagiri, Tamil Nadu, India.

*Corresponding author Email: chinnadurai@sicarch.in

Abstract. In architecture the summary is at Presents from beginning to end and the final product. Abstract is used as a method of gaining environmental knowledge to develop conceptual stages of the design process. Summary Vehicle functions or ATM functions are excellent examples of contractions in the real world. n Electrical switchboard is one of the real world examples of abstraction. A switchboard gives us an easy way to turn electrical devices on or off, hiding all the details of the electrical circuit. Description: The summary applies to both. Control contraction is the use of subroutines to control the contraction of the flow. Data summary involves manipulating data in meaningful ways. Security Summary allows companies to immediately identify the purpose of each event and use the best security particles with relevant capabilities to deal with the threat. If you want to define the method for public classes, the summary will be useful. For example, if there are multiple classes, they use the same method. In this case, you can use the compression method. Can be achieved through the protocol in the Swift interface. Quick summary can be achieved without parenting in the protocol-extension class. Minimize the problem and increase performance. Architects are generally highly respected in the community and if you want to be seen as a respected person in the community, architecture is a great career opportunity! Because of their creativity and attention to detail, they are considered a blend of art and ingenuity.

Keywords: Design education, Virtual studio, Architectural education, Virtual Reality, Design Studio.

1. Introduction

In architecture the summary is at Presents the from different stages of the design process beginning to Results and final product. Abstract is used as a method of gaining environmental knowledge to develop conceptual Stages of the design process. Design education teaches students the skills of design thinking and prepares them to become better problem solvers. Students begin by taking a problem and understanding its nuances, brainwashing possible solutions and accepting new products and experiences. Student Selection a specific subject that reflects their future career aspirations. The use of this word is as movie studio. Although regulations of Architectural licenses vary from region to region, most likely you have at least five years of study and two years of practical work experience Company that trains professional architects and architectural technicians.

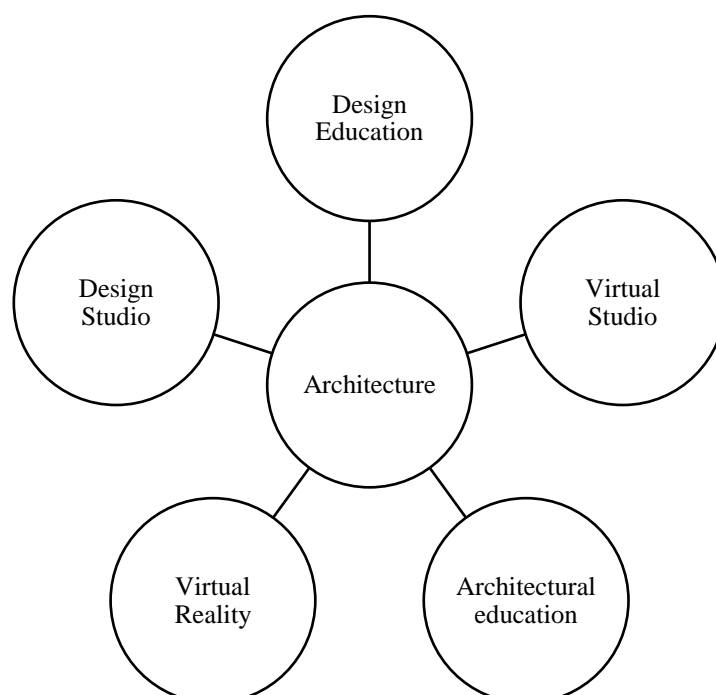


FIGURE 1. Architecture Properties

The profession of architect is one of the oldest. Architecture education should give students cognitive development and the ability to apply it in the creative process. In general, creative thinking is believed to occur within good knowledge hardware. However, not every intelligent person can create innovative designs. In recent years, medical research has found that it triggers symptoms of virtual reality degeneration are numerous cases that point to events such as isolation, social anxiety, and addiction game play. A design studio or drawing office is a workplace for designers and artisans involved in creating, designing and developing new products. First of all, what is a Creative Studio? Claire: Creative Studio is a collaborative team that brings together all the creative departments working on marketing and brand topics. This includes designers, copywriters and visual crews. Everyone can stimulate each other's thoughts, which fosters creativity. They use the same method. In this case, you can use the compression method. Can be achieved through the protocol in the Swift interface. Quick summary can be achieved without parenting in the protocol-extension class. Minimize the problem and increase performance. In architecture the summary is at Presents the various stages of the design process from beginning to end and the final product.

2. Design Education

The summary presents different education teaches students the skills of design thinking and prepares them to become better problem solvers. Students begin by taking a problem and understanding its nuances, brainwashing possible solutions and accepting new products and experiences. Student Selection a specific subject that reflects their future career aspirations. Company that trains professional architects and architectural technicians. The profession of architect is one of the oldest. To provide additional support for the design process, We argue that the manipulation of 3D components and the adjustment of design parameters should be implemented in VR. An integrated system was proposed based on this expansion, with a special focus on architectural design education. It is not uncommon to use the VR site as a presentation tool for architectural design education. Currently, students in the class are proposing and discussing ideas using project diagrams and diagrams to illustrate project presentations. Proposing a new design system with an Training in Existing 3D modeling platform and VR operating system and related architectural design education. We argue that there is a lack of interest in the role of evaluation in education, compared to the literature and our observations of the various architectural design educational contexts in Turkey. Although the teaching and assessment experience in design education is inseparable, instructors rarely use assessment as a positive learning strategy. However, the function of this type of review is important at the beginning of design education because the purpose of the design studio for elementary students is not only to enjoy design but also to provide basic rules and ideas for design. One of the key characteristics of design education is that its evaluation is not based on formal exams and architectural design education is similar to other design courses conducted in studios: Assessing students' achievement, knowledge and skills through training and programs is indirect. For these reasons the main form of evaluation in architecture is review or critique. The research institute offers a wide range of learning opportunities for students and teachers as an environment for critical analysis of the studio design project. Depending on the results of the poll against the general belief or talk about the subjectivity of design activities, most studio instructors believe that a criterion-based assessment is needed in design education. Educational system "Adaptive reuse of historic buildings" in architecture and interior design studios to tackle traditional conservation projects, supporting and developing integrated approaches to reviving the traditional values of traditional communities by promoting a design philosophy New Facilities Used in: And continuing with the needs of local communities. Part of the question: How to apply international perspectives and approaches to architectural education in different architectural schools in different countries or regions communities, security cannot be based on certain broad policies, so security education must be based on the systematic approach that students must learn. . . Think critically and communicate. The purpose of this study is to identify patterns of climate-appropriate design processes in landscape architecture education. Issues published in scientific research are not relevant to spatial design or require some 'translation'. In order to motivate students to solve this problem and gain relevant design knowledge from their literary research, we asked students to clearly create climate-related problems and suggest solutions that they can influence as a designer. Design studios are at the forefront of the architectural program with Key courses that use new systematic practices with International and local standards and objectives. The security courses in the program start from the third. Introduction to conservation concepts by understanding the importance of heritage through the teaching of architecture. Design education is based on design studios that combine all of the above with creative thinking. As mentioned, it also focuses on architectural education science approaches, social responsibilities and educational ideals.

3. Virtual Studio

The use of this word is as follows mix seamlessly in real time. Some documents are written on the social aspects of cognitive issues and remote design collaborations contribute to some contextual issues in virtual studios operate. Virtual studios occur in many forms. The only common feature is that some participants are distant from others. When a student is involved in a virtual studio, the teacher will be additionally assigned responsibilities through the remote system. First, the teacher must identify inherent problems in communication media and establish a work style that deals with distance from the student. Within the Virtual reality environment, VR studio project. Research uses this function of the VR project in architectural design studios. The main purpose is to explore how and to what extent students can benefit from this new ability of VR functionality. Virtual reality is "a human-computer interface in which the computer creates an emotionally immersive environment that responds interactively and is controlled by the user's behavior". This definition was developed by students in the Human Interface Technology Laboratory at the University of Washington from an encyclopedia of virtual

environments. Recently, VR has been widely used in visualizing various design solutions for an important reason because it is much easier and cheaper to evaluate shape and design in a virtual environment than to create or modify a physical model. VR systems can be used as a tool to visualize the virtual environment and create a design model and its surroundings. Working in the virtual world allows students to create links to these resources and, in this way, integrate them into their work. Suppose a virtual interface is already installed and connected. We believe that shadow values are normal in VIA and that non-shadow values can be significantly improved with better software and / or hardware. Allowing real representative elements in the virtual world allows the integration of environmental objects such as feces and chairs, making living in a virtual space more comfortable and more focused. Our virtual design environment simultaneously supports a diverse perspective, allowing Conceptual models need to be designed and observed size. A tutorial was provided prior to the main test. Simple virtual environment uses the same interface.

4. Architectural Education

Company that trains professional architects and architectural technicians. The profession of architect is one of the oldest. Although the terms of an architectural license vary from region to region, in most cases you must have at least five years of study (bachelor's and master's degrees) and two years of practical work experience. Architecture education should give students cognitive development and the ability to apply it in the creative process. In general, creative thinking is believed to occur within good knowledge hardware. However, not every intelligent person can create innovative designs. Participants were given an architectural design summary and then selected the CAAD project of their choice and attempted the design task. When video and audio were recorded, participants during the mission they were asked to express their thoughts verbally. Participants were given an architectural design summary and then selected the CAAD project of their choice and attempted the design task. When video and audio were recorded, participants were asked verbally to express their thoughts during the task. An integrated system was proposed based on this expansion, with a special focus on architectural design education. Process modeling has become an important architectural design method. With this method, designers can set rules based on the design concept to create a different shape. Or traditional architectural design education under practical modeling, which uses the main methods of painting and body modeling to express more idea. In the early stages of architectural design, it depends on the brief sketch to create ideas. When the concept is formed, it is time to model the brief idea in space or buildings. Design is one of the most important and characteristic fields in the field of architecture. Because of this, actual design courses are an important and central part of architectural education. At the same time, in Arab countries with valuable cultural traditions, it is their duty to develop new goals and approaches to develop new methods of teaching traditional preservation built into architectural education. The main issue is how to teach heritage conservation in the field of archeology. On the other hand, the international community has broad approaches to increase the importance of learning safety policies and processes through architectural education. Awareness of human, social, cultural, urban, architectural and environmental values is one of the most important teaching requirements under the UNESCO-UIA Charter for Architectural Education and responsibilities for improving architectural heritage and student ability. Architecture Design Studio is undoubtedly the most basic course in architecture education compared to other courses. For this reason, it is a very activities and future education research. This can be accomplished by providing reviewers with access to all the resources used during previous architectural stages, including requirements, preliminary and integrated decision models and all the tools used.

5. Virtual Reality

In recent years, medical research has found that virtual reality triggers symptoms of degeneration, while there are numerous cases that point to events such as isolation, social anxiety, and addiction game play. The research method is mainly to use quality analysis and secondly quantitative analysis. Refers to the performance of virtual reality as an educational tool in an architectural design studio. Uses research. The VR Studio project introduces new visualization capabilities in addition to those currently in use. The research concludes on the concrete results of the use of VR in the architectural design studio and opens new research sites. Designers and architects adapt virtual reality to the design process and architectural development, using it to explore design with its spatial relationships and its surroundings. Using the same concept, virtual reality is used in architectural education in the design process; the application can be used in design studio, design process and architectural design. The virtual reality environment used in this study and research is a virtual reality studio project created by the Japanese company Forum8. Designers and architects use the design process to transform virtual reality into architectural development, exploring design with its spatial relationships and its surroundings. Using the same concept, virtual reality is used in architectural education in the design process, which gives a designer a complete picture of the spatial relationships of design elements without relying on the original imagination. The application of Virtual reality has its roots in visual communication science, but different methods and applications distinguish it from many other tools of visualization. This article reviews the use of contexts for research and teaching in three areas: The potential of the domain to participate in virtual reality laboratories and its vast potential offers enormous benefits to landscape and architectural design researchers and practitioners. As a first step, we acknowledge that the application of virtual reality expands the workflows serving all three sectors by providing project-user interaction and the opportunity for user experience and feedback.

6. Design Studio

A design studio or drawing office is a workplace for designers and artisans involved in creating, designing and developing new products. First of all, what is a Creative Studio? Claire: Creative Studio is a collaborative team that brings together all the creative departments working on marketing and brand topics. A design studio or drawing office is a workplace for designers and artisans involved in creating, designing and developing new products was implemented in the third year design studio. Technology into the design process and to create the conditions for the use of Digital studio in the design process. The CAD Lab introduced students to the digital design environment studio. The study is conducted in two design studios with the same design complex at the intermediate design level. Design Projects Business Center and District Museum. The use of study in two different design studios is to measure students' additional responses. Students should propose construction scenarios for their structural systems. In the beginning In design studios, it conducts structural / structural research, exploring structural types and details. These design studio jobs will not only affect students, but also their knowledge of architecture and architectural design, but also select what early architecture will look like. In this context, considering the performance of design studios in the field of architecture, KTU architecture students should take an eight-hour studio lesson each semester. The main purpose of Design studios can improve students' questions ability. Instead of being liberated in solutions for students, students should seek answers to the questions of "what is the problem" and "how to solve it" with the guidance of an educator. In this context, KTU demands that architecture students take an eight-hour studio lesson each semester, taking into account the performance of design studios in the field of architecture. Implementing the previous plan A is a prerequisite for taking the overhead plan. The purpose of the study is to introduce the second semester Design Studio, which highlights the design process. Awareness measuring student benefits through the project process and discussing approaches based on team and selected projects, evaluations and results. In architecture, the foundation Steps of architectural design are set up and design studios act as a laboratory for students to learn architectural design steps. Our goal is to create a framework for describing and understanding the reviews that take place in the design studio. The design studio environment is very different from the traditional classroom - the teaching studio is very different from other learning environments in terms of teaching, sociology, ideology and science. Communicating with teachers includes the frequency of exercises and feedback, as well as Field trips and site visits. The design studio environment is very different from the traditional classroom - teaching, sociology, conceptual and science studios are very different from other learning environments in peer learning. Communicating with teachers includes the frequency of exercises and feedback, as well as field trips and site visits.

7. Conclusion

We argue that there is a lack of interest in the role of evaluation in education, compared to the literature and our observations of the various architectural design educational contexts in Turkey. Although the teaching and assessment experience in design education is inseparable, instructors rarely use assessment as a positive learning strategy. However, the function of this type of review is important at the beginning of design education because the purpose of the design studio for elementary students is not only to enjoy design but also to provide basic rules and ideas for design. The only common feature is that some participants are distant from others. When a student is involved in a virtual studio, the teacher is assigned additional responsibilities through the remote system. First, the teacher must identify inherent problems in communication media and establish a work style that deals with distance from the student. In the context of virtual reality, the VR Studio project. Research uses this function of the VR project in architectural design studios. The main purpose is to explore how and to what extent students can benefit from using this new capability of the VR function. However, not every intelligent person can create innovative designs. Participants were given an architectural design summary and then selected the CAAD project of their choice and attempted the design task. When video and audio were recorded, participants were asked to verbally express their thoughts during the task. This study further explores how design representation functions support individual design processes in architectural design. Mapping micro-representation techniques show how and when these were mainly used. Using it to explore design with its spatial relationships and its surroundings. Using the same concept, virtual reality is used in architectural education in the design process, which provides the designer with a complete picture of the spatial relationships of design elements without believing in the original imagination. For the remaining students following the design process.

Reference

- [1]. Lin, Chun-Heng, and Pei-Hsien Hsu. "Integrating procedural modelling process and immersive VR environment for architectural design education." In MATEC Web of Conferences, vol. 104, p. 03007. EDP Sciences, 2017.
- [2]. Çıkış, Şeniz, and Ela Çil. "Problematization of assessment in the architectural design education: First year as a case study." *Procedia-social and behavioral sciences* 1, no. 1 (2009): 2103-2110.
- [3]. Embaby, Mohga E. "Heritage conservation and architectural education: "An educational methodology for design studios". *HBRC Journal* 10, no. 3 (2014): 339-350.
- [4]. Saxena, Aumreesh Kumar, Sitesh Kumar Sinha, Piyush Kumar Shukla, Prashant Shukla, Manish Maheshwari, and Ratnesh Kumar Dubey. "Multi Agent Based Intrusion Detection System using Artificial Immune System for Distributed Network." *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)* (2020).

- [5]. Sharma, Yogesh Kumar, and Chamandeep Kaur. "The Vital Role of Virtual Private Network (VPN) in Making Secure Connection Over Internet World." *International Journal of Recent Technology and Engineering (IJRTE)* vol 8 (2020): 2336-2339.
- [6]. Jain, Prateek. *Start Your Own Enterprise: The Must Know-How Guide for an Entrepreneur*. Notion Press, 2020.
- [7]. Lenzholzer, Sanda, and Robert D. Brown. "Climate-responsive landscape architecture design education." *Journal of Cleaner Production* 61 (2013): 89-99.
- [8]. Ozmehmet, Ecehan, and Ebru Alakavuk. "Integration process of theoretical courses with design studios in undergraduate education: Case studies of architecture and interior design studios." In *SHS Web of Conferences*, vol. 26, p. 01112. EDP Sciences, 2016.
- [9]. Sathya, M., M. Jeyaselvi, Lalitha Krishnasamy, Mohammad Mazyad Hazzazi, Prashant Kumar Shukla, Piyush Kumar Shukla, and Stephen Jeswinde Nuagah. "A Novel, Efficient, and Secure Anomaly Detection Technique Using DWU-ODBN for IoT-Enabled Multimedia Communication Systems." *Wireless Communications and Mobile Computing* 2021 (2021).
- [10]. John Martin, R., S. Sujatha, and S. L. Swapna. "Multiresolution analysis in EEG signal feature engineering for epileptic seizure detection." *International Journal of Computer Applications* 975 (2018): 8887.
- [11]. Jain, Prateek. *The Unique Indian Market: Doing Business in India*. Notion Press, 2021.
- [12]. Kaur, Chamandeep. "The cloud computing and internet of things (IoT)." *International Journal of Scientific Research in Science, Engineering and Technology* 7, no. 1 (2020): 19-22.
- [13]. Kvan, Thomas. "The pedagogy of virtual design studios." *Automation in construction* 10, no. 3 (2001): 345-353.
- [14]. Abdelhameed, Wael A. "Virtual Reality Use in Architectural Design Studios: A case of studying structure and construction." *Procedia Computer Science* 25 (2013): 220-230.
- [15]. Jain, Prateek. *Innovative Marketing: 30 types of Marketing for Small & Medium Enterprises*. Notion Press, 2021.
- [16]. Alnuaim, Abeer Ali, Mohammed Zakariah, Aseel Alhadlaq, Chitra Shashidhar, Wesam Atef Hatamleh, Hussam Tarazi, Prashant Kumar Shukla, and Rajnish Ratna. "Human-Computer Interaction with Detection of Speaker Emotions Using Convolution Neural Networks." *Computational Intelligence and Neuroscience* 2022 (2022).
- [17]. Sathiyaraj Chinnasamy; M. Ramachandran; M. Amudha; Kurinjimalar Ramu, "A Review on Hill Climbing Optimization Methodology", *Recent trends in Management and Commerce*, 3(1), (2022):1-7.
- [18]. Martin, R. John, and Sujatha Sujatha. "Symbolic-Connectionist Representational Model for Optimizing Decision Making Behavior in Intelligent Systems." *International Journal of Electrical and Computer Engineering* 8, no. 1 (2018): 326.
- [19]. Buonadonna, Philip, Andrew Geweke, and David Culler. "An implementation and analysis of the virtual interface architecture." In *SC'98: Proceedings of the 1998 ACM/IEEE Conference on Supercomputing*, pp. 16-16. IEEE, 1998.
- [20]. Anderson, Lee, James Esser, and Victoria Interrante. "A virtual environment for conceptual design in architecture." In *Proceedings of the workshop on Virtual environments 2003*, pp. 57-63. 2003.
- [21]. Sridhar, Chethana, Piyush Kumar Pareek, R. Kalidoss, Sajjad Shaukat Jamal, Prashant Kumar Shukla, and Stephen Jeswinde Nuagah. "Optimal Medical Image Size Reduction Model Creation Using Recurrent Neural Network and GenPSOWVQ." *Journal of Healthcare Engineering* 2022 (2022).
- [22]. C. Venkateswaran; M. Ramachandran; Sathiyaraj Chinnasamy; Chinnasami Sivaji; M. Amudha, "An Extensive Study on Gravitational Search Algorithm", *Materials and its Characterization*, 1(1), (2022); 9-16.
- [23]. Martin, John R., and S. L. Swapna. "A Machine Learning Framework for Epileptic Seizure Detection by Analyzing EEG Signals." *International Journal of Computing and Digital Systems* (2021): 1-9.
- [24]. Kaur, Chamandeep, Mawahib Sharafeldin Adam Boush, Samar Mansoor Hassen, Wafaa Abushmlah Hakami, Mohammed Hassan Osman Abdalraheem, Najla Mohammed Galam, Nedaa Abdulaziz Hadi, and Atheer Omar S. Benjeed. "Incorporating Sentimental Analysis into Development of a Hybrid Classification Model: A Comprehensive Study."
- [25]. Drettakis, George, Maria Roussou, Alex Reche, and Nicolas Tsingos. "Design and evaluation of a real-world virtual environment for architecture and urban planning." *presence: teleoperators and virtual environments* 16, no. 3 (2007): 318-332.
- [26]. Portman, Michelle E., Asya Natapov, and Dafna Fisher-Gewirtzman. "To go where no man has gone before: Virtual reality in architecture, landscape architecture and environmental planning." *Computers, Environment and Urban Systems* 54 (2015): 376-384.
- [27]. C. Venkateswaran; M. Ramachandran; Kurinjimalar Ramu; Vidhya Prasanth; G. Mathivanan, "Application of Simulated Annealing in Various Field", *Materials and its Characterization*, 1(1), (2022); 01-08.
- [28]. Jain, Nitin, Shanti Rathore, and Prashant Kumar Shukla. "Designing efficient optimum reduced order IIR filter for smoothening EEG motion artifacts signals." *Design Engineering* (2021): 5080-5101.
- [29]. John Martin, R., S. L. Swapna, and S. Sujatha. "Adopting Machine Learning Models for Data Analytics-A Technical Note." *International Journal of Computer Sciences and Engineering* 6, no. 10 (2018): 360-365.
- [30]. Salman, Huda S., Richard Laing, and Anna Conniff. "The impact of computer aided architectural design programs on conceptual design in an educational context." *Design Studies* 35, no. 4 (2014): 412-439.
- [31]. Vikrant Sharma; M. Ramachandran; Sathiyaraj Chinnasamy; Vimala Saravanan, " A Review on Structural Equation Modeling and Its Classification" *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(4), (2022): 135-142

- [32]. Ceylan, Salih, Pinar Şahin, Serengül Seçmen, Melek Elif Somer, and Kemal H. Süher. "An evaluation of online architectural design studios during COVID-19 outbreak." *Archnet-IJAR: International Journal of Architectural Research* (2020).
- [33]. Pareek, Piyush Kumar, Chethana Sridhar, R. Kalidoss, Muhammad Aslam, Manish Maheshwari, Prashant Kumar Shukla, and Stephen Jeswinde Nuagah. "IntOPMICM: Intelligent Medical Image Size Reduction Model." *Journal of Healthcare Engineering 2022* (2022).
- [34]. Martin, R. John, and S. Sujatha. "Bottom-up Approach of Modeling Human Decision Making for Building Intelligent Agents." *Indian Journal of science and technology* 9, no. 4 (2016): 1-5.
- [35]. Stevanetic, Srdjan, Konstantinos Plakidas, Tudor B. Ionescu, Fei Li, Daniel Schall, and Uwe Zdun. "Tool support for the architectural design decisions in software ecosystems." In *Proceedings of the 2015 European Conference on Software Architecture Workshops*, pp. 1-6. 2015.
- [36]. Jetcheva, Jorjeta G., Yih-Chun Hu, Santashil PalChaudhuri, Amit Kumar, Saha David, and B. Johnson. "Design and evaluation of a metropolitan area multitier wireless ad hoc network architecture." (2003).
- [37]. Sathiyaraj Chinnasamy, M. Ramachandran, Kurinjimalar Ramu, P. Anusuya "Study on Fuzzy ELECTRE Method with Various Methodologies" *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(4), (2022):108-115.
- [38]. Deterding, Sebastian. "Gamification in management: Between choice architecture and humanistic design." *Journal of Management Inquiry* 28, no. 2 (2019): 131-136.
- [39]. Ismail, Mohd Arif, Rosnaini Mahmud, and Isham Shah Hassan. "Digital studio vs. conventional in teaching architectural design process." *Procedia-Social and Behavioral Sciences* 64 (2012): 18-25.
- [40]. Alnuaim, Abeer Ali, Mohammed Zakariah, Prashant Kumar Shukla, Aseel Alhadlaq, Wesam Atef Hatamleh, Hussam Tarazi, R. Sureshbabu, and Rajnish Ratna. "Human-Computer Interaction for Recognizing Speech Emotions Using Multilayer Perceptron Classifier." *Journal of Healthcare Engineering 2022* (2022).
- [41]. Soniya Sriram, M. Ramachandran, Sathiyaraj Chinnasamy, G. Mathivanan "A Review on Multi-Criteria Decision-Making and Its Application", *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(4), (2022):101-107.
- [42]. C. Venkateswaran; M. Ramachandran; Vimala saravanan; T. Vennila " A Study on Artificial intelligence with Machine learning and Deep Learning Techniques", *Data Analytics and Artificial Intelligence*, 1(1), (2021):32-37.
- [43]. Ustaomeroglu, Ayca Araz. "Concept-interpretation-product in architectural design studios-karadeniz technical universty 2nd semester sample." *Procedia-social and behavioral sciences* 197 (2015): 1897-1906.
- [44]. Janarthanan, Ramadoss, R. Uma Maheshwari, Prashant Kumar Shukla, Piyush Kumar Shukla, Seyedali Mirjalili, and Manoj Kumar. "Intelligent Detection of the PV Faults Based on Artificial Neural Network and Type 2 Fuzzy Systems." *Energies* 14, no. 20 (2021): 6584.
- [45]. Uluengin, Öze, and Senem Kaymaz Koca. "An examination of reflections of mainstream and architectural approaches in architectural design studios." *Procedia-Social and Behavioral Sciences* 152 (2014): 19-24.
- [46]. Amol Lokhande, C. Venkateswaran, M. Ramachandran, S. Chinnasami, T. Vennila."A Review on Various Implications on Re engineering in Manufacturing", *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(3), 2021:70-75.
- [47]. Wu, Jianping, Gang Ren, and Xing Li. "Source address validation: Architecture and protocol design." In *2007 IEEE International Conference on Network Protocols*, pp. 276-283. IEEE, 2007.
- [48]. Alnuaim, Abeer Ali, Mohammed Zakariah, Chitra Shashidhar, Wesam Atef Hatamleh, Hussam Tarazi, Prashant Kumar Shukla, and Rajnish Ratna. "Speaker Gender Recognition Based on Deep Neural Networks and ResNet50." *Wireless Communications and Mobile Computing 2022* (2022).
- [49]. Oh, Yeonjoo, Suguru Ishizaki, Mark D. Gross, and Ellen Yi-Luen Do. "A theoretical framework of design critiquing in architecture studios." *Design Studies* 34, no. 3 (2013): 302-325.
- [50]. Amol Lokhande, C. Venkateswaran, M. Ramachandran, C. Vidhya, R. Kurinjimalar. " A Study on Various Implications on Reusing in Manufacturing", *REST Journal on Emerging trends in Modelling and Manufacturing*, 7(2), (2021): 63-69.
- [51]. Ahirwar, Deshraj, P. K. Shukla, Kirti Raj Bhatele, Prashant Shukla, and Sachin Goyal. "Intrusion Detection and Tolerance in Next Generation Wireless Network." In *Next Generation Wireless Network Security and Privacy*, pp. 313-335. IGI Global, 2015.
- [52]. Alnusairat, Saba, Duaa Al Maani, and Amer Al-Jokhadar. "Architecture students' satisfaction with and perceptions of online design studios during COVID-19 lockdown: the case of Jordan universities." *Archnet-IJAR: International Journal of Architectural Research* (2020).
- [53]. Rauf, Hozan Latif, Kagan Gunce, and Munevver Ozgur Ozersay. "Self-advocacy for first-year students in interior architecture design studios." *Open House International* (2020).
- [54]. Gerber, David J., Evangelos Pantazis, and Alan Wang. "A multi-agent approach for performance based architecture: design exploring geometry, user, and environmental agencies in façades." *Automation in construction* 76 (2017): 45-58.
- [55]. Aleti, Aldeida, Barbora Buhnova, Lars Grunske, Anne Koziolk, and Indika Meedeniya. "Software architecture optimization methods: A systematic literature review." *IEEE Transactions on Software Engineering* 39, no. 5 (2012): 658-683.