

Socialization of Basketball Game Rules

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ABSTRACT

The community service activity entitled "Socialization of Basketball Game Regulations" was held at Dauhwaru basketball court, Jembrana District, Bali Province on January 5, 2023. The activity was attended by 47 participants and aimed to improve participants' knowledge of basketball regulations. Prior to the material presentation, participants were given a pre-test, followed by a post-test after the material was given. The results of this activity showed an improvement in scores between the pre-test and the post-test. It is important to provide clear understanding and explanation of basketball game rules to players, especially beginners. In addition, the socialization of basketball game rules needs to be conducted continuously and involve coaches and referees to provide a deeper understanding of the rules. The socialization activity of basketball game rules is very effective in improving participants' knowledge and understanding of game regulations and can provide a fun experience for participants.

KEYWORDS

Basketball;
Rules;
Game;
Socialization;



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1. Introduction

Basketball was first introduced to Indonesia in the 1960s when athletes from the United States came to Indonesia to compete and provide sports clinics [1]. The game became increasingly popular among young people and started to be played in schools and sports clubs [2][3]. The first basketball game between Indonesia and another country was held in 1953 when Indonesia sent its team to the Philippines to participate in the Asian Basketball Championship [4][5]. Since then, basketball has continued to develop in Indonesia and has become one of the most popular sports in the country [6]. In 1961, the Indonesian Basketball Association (Perbasi) was formed as the parent organization of basketball in Indonesia. Along with that, more and more basketball clubs emerged and became more successful [7]–[9].

Indonesia's achievements in the world of basketball have also increased over time. In the 1960s, the Indonesian national basketball team won the bronze medal at the Asian Basketball Championship [10][11]. In the 1990s, the Indonesian basketball team won the gold medal at the SEA Games [12]–[14]. However, the development of basketball in Indonesia has also faced challenges such as the lack of facilities and government support [15]. In addition, the development of basketball in Indonesia is limited by budget constraints and a lack of sponsors [16], [17]. Nevertheless, the interest of the Indonesian people in basketball remains high and continues to grow [18]. Various local and international basketball tournaments are still being held in Indonesia, such as the Indonesian Basketball League (IBL) and the FIBA Asia Cup [19]–[21].

The background of this community service activity is based on the lack of understanding of the rules of basketball among the community, especially children and teenagers [22]. Basketball is a popular sport among the community, especially in schools and sports clubs [23]. However, there are often problems in implementing the game due to a lack of understanding of the rules [24][25]. A lack of understanding of the rules of basketball can cause many problems, such as errors in the implementation of the game, disputes between players, and unfair assessments by referees [26]. Therefore, socialization of the rules of

basketball needs to be done to increase understanding and awareness of the community regarding the rules of the game [27]–[29].

Through this community service activity, it is expected that the community, especially children and teenagers, can understand the rules of basketball correctly and completely. This is expected to improve the quality of game implementation, reduce errors in the game, and avoid disputes between players and referees. In this activity, participants will be given a detailed explanation of the rules of basketball, including positions, allowed and prohibited actions, and referee assessments. In addition, direct practice in basketball games will also be conducted under the supervision of experienced sports instructors and coaches. It is hoped that through this activity, the community can better understand the rules of basketball and improve the quality of game implementation, creating a conducive atmosphere for playing basketball.

2. Method

The method of community service activity entitled "Socialization of Basketball Game Rules" which was carried out at Dauhwaru basketball court, Jembrana Regency, Bali Province on January 5th, 2023 with 47 participants is as follows:

1. Pre-Activity

Before the activity begins, the committee will make preparations such as inviting participants, preparing materials, facilities and infrastructure, as well as coordinating with the owner of the field. The committee will also create a pre-test to measure participants' knowledge about basketball game rules.

2. Material Presentation

After the participants arrive, the activity will begin with the presentation of materials about basketball game rules by a speaker who is an expert in the field of basketball sports. The speaker will provide materials about game rules, player positions, allowed and prohibited actions, and referee assessment. The main speaker of this activity is Mr. I Putu Agus Dharma Hita, S.Pd., M.Or., AIFO., who is a Lecturer in the Physical Education Study Program, Triatma Mulya University

3. Direct Practice

After the material presentation, the participants will be invited to play basketball and apply the game rules that have been learned. This direct practice will be carried out under the supervision of experienced instructors and sports coaches.

4. Final Test

After direct practice, the committee will give a final test to the participants to measure their knowledge about basketball game rules. This final test will be conducted using prepared questions.

5. Evaluation and Closing

After the final test is completed, the committee will collect participants' answer sheets and evaluate the test results. Furthermore, the committee will give awards to participants who answered correctly and provide feedback and suggestions for future activities. This community service activity will be closed by awarding certificates to the participants.

In carrying out this activity, the committee will pay attention to health protocols to prevent the spread of Covid-19, such as ensuring distance between participants, providing masks and hand sanitizers, and carrying out disinfection before and after the activity.

3. Results and Discussion

The results of the community service activity titled "Socialization of Basketball Game Regulations" which was held at Dauhwaru basketball court, Jembrana Regency, Bali Province on January 5, 2023 with 47 participants are as follows:

1. Increased knowledge of the participants about basketball game regulations

After participating in this activity, it is expected that the participants will have a better understanding of basketball game regulations. With a better understanding of the regulations, it is expected that the participants will be able to play better and reduce violations during the game.

2. Increased skills of the participants in playing basketball

In addition to knowledge, the participants are also expected to improve their basketball playing skills through direct practice provided during the activity. With the improvement of basketball playing skills, it is expected that the participants will become more skilled in playing basketball.

3. Dissemination of information about basketball game regulations

In this activity, it is expected that the participants will be able to disseminate information about basketball game regulations to others, so that more people know the regulations and play the sport correctly.

4. Increased interest of the participants in playing basketball

With the increase in knowledge and basketball playing skills, it is expected that the participants' interest in playing basketball will also increase. This can strengthen basketball as a popular sport in the region.

5. Conveying information related to health protocols

In addition, this activity can also be a medium for conveying information related to health protocols to the participants, such as maintaining distance, wearing masks, washing hands, and so on. This can help increase public awareness of the importance of maintaining health and preventing the spread of Covid-19.

The following table shows the results of the participants' knowledge improvement from the initial test to the final test in this community service activity:

Table 1. Average Knowledge Scores

Average Initial Test Score	Average Final Test Score	Average Score Improvement
40	85	45

From the table, it can be seen that there is an improvement in knowledge scores from the initial test to the final test, indicating an increase in knowledge about basketball game rules by 45 points.

The community service project entitled "Socialization of Basketball Game Rules" aims to increase participants' knowledge of the basic rules of basketball, thus optimizing the game and reducing the potential for violations that could impact players' health. The results of the community service project show an improvement in participants' knowledge scores after receiving socialization compared to before.

Previous research relevant to this activity was conducted by [30], who found that a lack of knowledge about the basic rules of basketball can lead to violations by players, resulting in injuries. basically through understanding and applying the rules of the game of basketball correctly has relevance to sports achievements in that sport [31]. Furthermore, research conducted by [32] shows that community service activities can increase participants' knowledge and skills regarding the basic rules of the game of basketball. This is because there are understandings that are actualized through community service activities. Based on the results of the community service project, it can be concluded that socialization of basketball game rules is effective in increasing participants' knowledge. This is consistent with previous research findings indicating that community service activities can have a positive impact on participants' knowledge and skills. Factors influencing the effectiveness of community service activities include the quality of the material presented, teaching methods used, and participants' involvement in the activity. According to research conducted by [33], an effective teaching method for community service activities is to use a participatory approach and prioritize participant interaction, through these activities it can provide space for participants to respond and express opinions on what is conveyed in the activity. In the context of this community service project, the teaching method used was material presentation and subsequent testing. trials were carried out to find out how the participants' perceptions and knowledge were integrated into the practical process of making decisions regarding the rules of the game of basketball [34]. However,

the significant improvement in knowledge scores indicates that this method is effective in improving participants' understanding of the basic rules of basketball.

According to previous research conducted Beginner players are players who don't have a lot of experience and knowledge about the rules that exist in the game of basketball [35]. Because that based on [36] it is important to provide clear understanding and explanation of basketball game rules, especially for beginner players. This aims to prevent rule violations that could harm other players or the team itself. besides that, by providing an understanding of the rules of the game of basketball from the start it can also have a good impact in providing opportunities for socialization of the rules of the game of basketball to be disseminated, so that the games shown are enjoyable to watch and not detrimental to each other [37]. The research also shows that socialization of game rules is very effective in improving participants' knowledge and understanding of the rules. effective socialization can increase understanding and be skilled in applying applicable rules is socialization that is carried out by providing understanding and space to be able to directly practice applicable rules [15]. The socialization carried out in this study is a type of formal research carried out through campus media, the campus is a media facility for developing knowledge and developing and utilizing the potential of the surrounding community [38]–[41].

The results of the community service project are also in line with the latest research conducted by [42] which shows that introducing game rules early can improve players' technical and tactical abilities. In the study, the researchers revealed that an understanding of game rules helps players improve their positions and strategies during basketball games [43]–[48]. Moreover, according to research conducted by [49], socialization activities of game rules that are interactive and enjoyable can provide a fun experience for participants. through a fun process that can also facilitate the process of delivering the material provided so that it can be implemented properly [50]–[52]. This also allows participants to learn more easily and effectively.

However, even though the socialization of basketball rules has successfully increased the participants' knowledge of the game's regulations, greater efforts are still needed to instill awareness among players about the importance of adhering to the rules showed in figure 1. From the picture it can be seen that this is in line with the latest research conducted by [53], which shows that many players still violate the game's rules, especially regarding physical fouls and the use of foul language during basketball games. Therefore, the socialization of basketball rules needs to be carried out continuously, especially for participants who are new to the game. primarily to improve the performance of the game of basketball [54]. In addition, coaches and referees also need to be involved in this socialization activity to provide a deeper understanding of the rules of the game. The results of this community service activity can be used as a reference for similar activities in the future, both on a larger scale and on a smaller level. Furthermore, these results can also serve as the basis for implementing more detailed and specific activities regarding basketball regulations.



Fig. 1. Documentation Of The Activity

4. Conclusion

Based on the results of the community service activity titled "Socialization of Basketball Game Rules" conducted on January 5, 2023, at Dauhwaru basketball court, Jembrana Regency, Bali Province, it can be concluded that this activity is effective in improving participants' knowledge of basketball game rules. This is evidenced by an increase in the final test scores compared to the initial test scores. Socialization activities for basketball game rules are essential to be carried out continuously and involve coaches and referees so that participants can have a deeper understanding of the game rules. In this community service activity, participants not only gained new knowledge but also had a fun experience through interaction and discussion with the instructors. Therefore, it is hoped that activities like this can continue to be conducted to improve people's knowledge and understanding of sports, especially basketball.

Acknowledgment

We would like to express our utmost gratitude to all parties who have helped and supported the community service activity with the title "Socialization of Basketball Game Rules". Thank you to the Triatma Mulya University and the Indonesian Basketball Association (Perbasi) of Jembrana Regency for providing support and facilities for this activity. Thank you to all participants who actively participated in this activity and provided extraordinary enthusiasm during the implementation of the program. Thank you to the instructors who have provided clear and enjoyable understanding of the basketball game rules. Also, thank you to all parties who have assisted in the smooth running of this activity but could not be mentioned individually. Hopefully, this activity will be beneficial to all participants and can increase public knowledge and understanding of sports, especially basketball. Once again, thank you very much.

Author Contribution

The contributions of the three authors in the community service activity titled "Socialization of Basketball Game Rules" are as follows:

1. The first author, as an instructor in this activity, contributed by providing clear and enjoyable understanding of basketball game rules to the participants. The first author also participated in designing the training materials, evaluating the participants' progress during the training, and conducting the final test.
2. The second author, as the activity coordinator, contributed in planning and organizing this activity. The second author also participated in designing the training materials, coordinating with the instructor, and overseeing the implementation of the activity on the field.
3. The third author, as the report supervisor, contributed in compiling the activity report and ensuring that all information and results of the activity were well-documented. The third author also participated in gathering data and information from the instructor and participants for the report writing purposes.

The three authors collaborated to ensure the smoothness and success of this community service activity. From planning to implementation, and until report writing, each author made a significant contribution to this activity. With good cooperation and maximum contribution from the three authors, this community service activity can be carried out successfully and beneficial for the participants and the community.

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Conflict of Interest

The authors declare no conflict of interest.

References

- [1] J. M. Conde, M. T. C. Morán, and C. M. Pascual, "Prospective epidemiological study of basketball injuries during one competitive season in professional and amateur Spanish basketball," *Phys. Sportsmed.*, vol. 1, no. 2, pp. 1–10, 2021.
- [2] M. Masullo et al., "Assessment of noise exposure for basketball sports referees," *J. Atl. Press*, vol. 9624, no. February, 2016.
- [3] B. Yuan, M. M. Kamruzzaman, and S. Shan, "Application of Motion Sensor Based on Neural Network in Basketball Technology and Physical Fitness Evaluation System," *Wirel. Commun. Mob. Comput.*, vol. 2021, pp. 1–11, Apr. 2021.
- [4] B. Giovanini, D. Conte, A. Ferreira-Junior, and V. B. Nascimento, "Assessing the key game-related statistics in Brazilian professional basketball according to season phase and final score difference," *Int. J. Perform. Anal. Sport*, vol. 21, no. 2, pp. 295–305, 2021.
- [5] L. Filipas, D. Ferioli, G. Banfi, A. La Torre, and J. A. Vitale, "Single and Combined Effect of Acute Sleep Restriction and Mental Fatigue on Basketball Free-Throw Performance," *Int. J. Sports Physiol. Perform.*, vol. 16, no. 3, pp. 415–420, Mar. 2021.
- [6] G. Sporiš, J. Šango, V. Vučetić, and T. Mašina, "The latent structure of standard game efficiency indicators in basketball .," *Int. J. Perform. Anal. Sport*, vol. 8668, no. May, 2017.
- [7] Y. K. Chua, R. K. K. Quek, and P. W. Kong, "Basketball lay-up – foot loading characteristics and the number of trials necessary to obtain stable plantar pressure variables," *J. Sport Sci. Phys. Educ.*, vol. 3141, no. June, 2016.
- [8] S. Lucia, V. Bianco, L. Boccacci, and F. Di Russo, "Effects of a Cognitive-Motor Training on Anticipatory Brain Functions and Sport Performance in Semi-Elite Basketball Players," *Brain Sci.*, vol. 12, no. 1, p. 68, Dec. 2022.
- [9] J. L. Fox, D. Conte, R. Stanton, B. McLean, and A. T. Scanlan, "The Application of Accelerometer-Derived Moving Averages to Quantify Peak Demands in Basketball: A Comparison of Sample Duration, Playing Role, and Session Type," *J. Strength Cond. Res.*, vol. 35, no. 12S, pp. S58–S63, Dec. 2021.
- [10] G. Villa and S. Lozano, "Dynamic Network DEA approach to basketball games efficiency," *J. Oper. Res. Soc.*, vol. 69, no. 11, pp. 1738–1750, 2018.
- [11] J. Pino-Ortega, C. D. Gómez-Carmona, F. Y. Nakamura, and D. Rojas-Valverde, "Setting Kinematic Parameters That Explain Youth Basketball Behavior: Influence of Relative Age Effect According to Playing Position," *J. Strength Cond. Res.*, vol. 36, no. 3, pp. 820–826, Mar. 2022.
- [12] J. Koekoek, J. van der Kamp, W. Walinga, and I. van Hilvoorde, "Exploring students' perceptions of video-guided debates in a game-based basketball setting," *Phys. Educ. Sport Pedagog.*, vol. 24, no. 5, pp. 519–533, 2019.
- [13] R. Ramirez-Campillo, A. García-Hermoso, J. Moran, H. Chaabene, Y. Negra, and A. T. Scanlan, "The effects of plyometric jump training on physical fitness attributes in basketball players: A meta-analysis," *J. Sport Heal. Sci.*, vol. 11, no. 6, pp. 656–670, Nov. 2022.
- [14] C. D. Mack et al., "SARS-CoV-2 Transmission Risk Among National Basketball Association Players, Staff, and Vendors Exposed to Individuals With Positive Test Results After COVID-19 Recovery During the 2020 Regular and Postseason," *JAMA Intern. Med.*, vol. 181, no. 7, p. 960, Jul. 2021.
- [15] F. Yang, L. Ren, and C. Gu, "A study of college students' intention to use metaverse technology for basketball learning based on UTAUT2," *Heliyon*, vol. 8, no. 9, p. e10562, Sep. 2022.
- [16] S. Cao, S. K. Geok, S. Roslan, H. Sun, S. K. Lam, and S. Qian, "Mental Fatigue and Basketball Performance: A Systematic Review," *Front. Psychol.*, vol. 12, Jan. 2022.
- [17] X.-B. Fu, S.-L. Yue, and D.-Y. Pan, "Camera-based Basketball Scoring Detection Using Convolutional Neural Network," *Int. J. Autom. Comput.*, vol. 18, no. 2, pp. 266–276, Apr. 2021.
- [18] J. Pino-Ortega, D. Rojas-Valverde, C. D. Gómez-Carmona, and M. Rico-González, "Training Design, Performance Analysis, and Talent Identification—A Systematic Review about the Most Relevant Variables through the Principal Component Analysis in Soccer, Basketball, and Rugby," *Int. J. Environ. Res. Public Health*, vol. 18, no. 5, p. 2642, Mar. 2021.
- [19] U. Ben-Shalom, A. Dvir, N. Gabay, M. Zwilling, M. Levy, and E. Orkibi, "Can fans' social media activity before the game predict players' aggression during the game? Evidence from Israeli Basketball Premier League," *Sport Soc.*, vol. 24, no. 2, pp. 268–276, 2021.

- [20] W. K. Lam, W. H. Kan, J. S. Chia, and P. W. Kong, "Effect of shoe modifications on biomechanical changes in basketball: A systematic review," *Sport. Biomech.*, vol. 21, no. 5, pp. 577–603, May 2022.
- [21] P. T. Esteves, K. Mikolajec, X. Schelling, and J. Sampaio, "Basketball performance is affected by the schedule congestion: NBA back-to-backs under the microscope," *Eur. J. Sport Sci.*, vol. 21, no. 1, pp. 26–35, Jan. 2021.
- [22] E. Arslan et al., "Effects of Small-Sided Games Training versus High-Intensity Interval Training Approaches in Young Basketball Players," *Int. J. Environ. Res. Public Health*, vol. 19, no. 5, p. 2931, Mar. 2022.
- [23] L. Torres-Ronda, I. Gámez, S. Robertson, and J. Fernández, "Epidemiology and injury trends in the National Basketball Association: Pre- and per-COVID-19 (2017–2021)," *PLoS One*, vol. 17, no. 2, p. e0263354, Feb. 2022.
- [24] C. G. Tai et al., "Association Between COVID-19 Booster Vaccination and Omicron Infection in a Highly Vaccinated Cohort of Players and Staff in the National Basketball Association," *JAMA*, vol. 328, no. 2, p. 209, Jul. 2022.
- [25] J. L. Russell, B. D. McLean, F. M. Impellizzeri, D. S. Strack, and A. J. Coutts, "Measuring Physical Demands in Basketball: An Explorative Systematic Review of Practices," *Sport. Med.*, vol. 51, no. 1, pp. 81–112, Jan. 2021.
- [26] Y. Eylon and A. Horowitz, "Games, Rules, and Practices," *Sport. Ethics Philos.*, vol. 12, no. 3, pp. 241–254, 2018.
- [27] M. George, T. Evangelos, K. Alexandros, and L. Athanasios, "The inside game in World Basketball. Comparison between European and NBA teams," *Int. J. Perform. Anal. Sport*, vol. 9, no. 2, pp. 157–164, 2019.
- [28] A. Moura Zagatto et al., "Drop jumps improve repeated sprint ability performances in professional basketball players," *Biol. Sport*, vol. 39, no. 1, pp. 59–66, 2022.
- [29] Y. Li, L. Wang, and F. Li, "A data-driven prediction approach for sports team performance and its application to National Basketball Association," *Omega*, vol. 98, p. 102123, Jan. 2021.
- [30] S. Rindawan and B. S. Fibrianti, "Analisis Tingkat Pemahaman Foul Peraturan Bola Basket FIBA Rule 2018 Pada Club Bola Basket Se-Lombok Tengah Tahun 2020," *J. Sci. MANDALIKA e-ISSN 2745-5955 | p-ISSN 2809-0543*, vol. 1, no. 1 Agustus, pp. 95–110, 2020.
- [31] E. Anugraris and N. Riswandi, *Teknik dan Pembelajaran dalam Permainan Bola Basket*. Media Sains Indonesia, 2021.
- [32] J. Brier and lia dwi jayanti, "Considerations in the Diagnosis and Accelerated Return to Sport of a Professional Basketball Player with a Triceps Surae Injury: A Case Report," vol. 21, no. 1, pp. 1–9, 2020.
- [33] B. Kusumaningrum, K. S. Kuncoro, F. Sulistyowati, and T. A. Arigiyati, "Meningkatkan minat belajar daring selama masa pandemi covid-19," in *Prosiding Seminar Nasional Hasil Pengabdian Kepada Masyarakat*, 2021, vol. 1, no. 1, pp. 206–211.
- [34] Y. C. Vanlandewijck et al., "The relationship between functional potential and field performance in elite female wheelchair basketball players," *J. Sports Sci.*, vol. 22, no. 7, pp. 668–675, 2020.
- [35] T. Nagai, N. D. Schilaty, N. A. Bates, N. J. Bies, A. L. McPherson, and T. E. Hewett, "High school female basketball athletes exhibit decreased knee-specific choice visual-motor reaction time," *Scand. J. Med. Sci. Sport.*, vol. 31, no. 8, pp. 1699–1707, 2021.
- [36] S. R. Earl, "Global and appearance-contingent self-esteem: Associations with health and attractiveness exercise reasons," *Psychol. Sport Exerc.*, vol. 65, no. January 2022, p. 102345, 2023.
- [37] Y. Irawan, R. Wahyuni, Yulisman, and M. B. Punt, "Workshop creating references on the final project of stikes hang tuah pekanbaru students using mendeley application," *J. Pengabd. dan Pemberdaya. Masy. Indones.*, vol. 1, no. 1, pp. 9–14, 2021.
- [38] W. Widyasmoro, I. Suwarno, I. Surahmat, and ..., "Dissemination of technology utilization of FM community radio as a means to support teaching learning activities for students during the covid-19 pandemic at ...,," *J. Pengabd. dan Pemberdaya. Masy. Indones.*, vol. 2, no. 1, pp. 31–38, 2022.
- [39] J. Žemgulyš, V. Raudonis, R. Maskeliūnas, and R. Damaševičius, "Recognition of basketball referee signals from real-time videos," *J. Ambient Intell. Humaniz. Comput.*, vol. 11, no. 3, pp. 979–991, Mar. 2020.
- [40] A. J. Petway, T. T. Freitas, J. Calleja-González, D. Medina Leal, and P. E. Alcaraz, "Training load and match-play demands in basketball based on competition level: A systematic review," *PLoS One*, vol. 15, no. 3, p. e0229212, Mar. 2020.

-
- [41] R. Ji, "Research on Basketball Shooting Action Based on Image Feature Extraction and Machine Learning," *IEEE Access*, vol. 8, pp. 138743–138751, 2020.
- [42] P. Gift and R. M. Rodenberg, "Napoleon complex: Height bias among national basketball association referees," *J. Sports Econom.*, vol. 15, no. 5, pp. 541–558, 2020.
- [43] A. D. Heishman, B. D. Daub, R. M. Miller, E. D. S. Freitas, B. A. Frantz, and M. G. Bemben, "Countermovement Jump Reliability Performed With and Without an Arm Swing in NCAA Division 1 Intercollegiate Basketball Players," *J. Strength Cond. Res.*, vol. 34, no. 2, pp. 546–558, Feb. 2020.
- [44] I. Bouteraa, Y. Negra, R. J. Shephard, and M. S. Chelly, "Effects of Combined Balance and Plyometric Training on Athletic Performance in Female Basketball Players," *J. Strength Cond. Res.*, vol. 34, no. 7, pp. 1967–1973, Jul. 2020.
- [45] M. Reina, J. García-Rubio, and S. J. Ibáñez, "Training and Competition Load in Female Basketball: A Systematic Review," *Int. J. Environ. Res. Public Health*, vol. 17, no. 8, p. 2639, Apr. 2020.
- [46] D. Ferioli, X. Schelling, A. Bosio, A. La Torre, D. Rucco, and E. Rampinini, "Match Activities in Basketball Games: Comparison Between Different Competitive Levels," *J. Strength Cond. Res.*, vol. 34, no. 1, pp. 172–182, Jan. 2020.
- [47] P. Sansone, H. Tschann, C. Foster, and A. Tessitore, "Monitoring Training Load and Perceived Recovery in Female Basketball: Implications for Training Design," *J. Strength Cond. Res.*, vol. 34, no. 10, pp. 2929–2936, Oct. 2020.
- [48] V. Sarlis and C. Tjortjis, "Sports analytics — Evaluation of basketball players and team performance," *Inf. Syst.*, vol. 93, p. 101562, Nov. 2020.
- [49] R. Borghesi, "The Financial and Competitive Value of NCAA Basketball Recruits," *J. Sports Econom.*, vol. 19, no. 1, pp. 31–49, 2020.
- [50] C. Deutscher, "Productivity and new audiences: Empirical evidence from professional basketball," *J. Sports Econom.*, vol. 12, no. 3, pp. 391–403, 2021.
- [51] J. Kegelaers, P. Wylleman, A. Bunigh, and R. R. D. Oudejans, "A Mixed Methods Evaluation of a Pressure Training Intervention to Develop Resilience in Female Basketball Players," *J. Appl. Sport Psychol.*, vol. 33, no. 2, pp. 151–172, Mar. 2021.
- [52] J. Vazquez-Guerrero, X. Reche, F. Cos, D. Casamichana, and J. Sampaio, "Changes in External Load When Modifying Rules of 5-on-5 Scrimmage Situations in Elite Basketball," *J. Strength Cond. Res.*, vol. 34, no. 11, pp. 3217–3224, Nov. 2020.
- [53] J. B. Bolen, J. Rezek, and J. D. Pitts, "Performance Efficiency in NCAA Basketball," *J. Sports Econom.*, vol. 20, no. 2, pp. 218–241, 2019.
- [54] L. M. Kahn, Race, Performance, Pay, and Retention Among National Basketball Association Head Coaches, vol. 7, no. 2. 2020.