Judicial Reform Through the Use of Information and Communication Technology to Realize the Principles of Simple, Fast, and Law Cost Justice

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ABSTRACT

This writing aiming For describe and analyze about use technology information and communication in the implementation justice in Indonesia and the urgency the use of artificial intelligence (AI) as tool For realize principle simpl, fast and low-cost justice light. Research methods This is legal normative in nature descriptive analytical, approach regulation legislation and approaches conceptual. Conclusion from study This that Utilization AI technology in practice Indonesian law has started Of course only one of them by the Supreme Court using smart assembly application For choose panel of judges automatic based on factors certain. Besides that, use it AI applications for optimize device the law that becomes need seeker justice in reach out and get justice (access to court to justice), even is a condition sine qua non for realize simple, fast and fair trial costly light. Therefore that, the author push For use of AI in implementation hearing in a way electronic (e-court) has done Court Agung and 4 (four) environments justice below it

Keywords: artificial intelligence, judicial technology, judicial reform, principle of justice.

Introduction

During lately This There is development interesting to observe around shift and practice justice. One of the efforts made in to strengthen self The Supreme Court as modern and trusted justice realized with give convenience access for public seeker justice For reach justice (*access to court justice*) namely with existence efforts made is utilization *Information, Communication, and Technology* (ITC) optimally through online services (Reiling, 2018) . Legal integration , institutions justice , and technology digital information must can felt benefits to the parties and the community related with convenience access (Hamzah, 2023) .

System technology digital information has influence all aspect life human , thing This has in line with aspect benefit built system law . Digital information technology systems in their development require law for their implementation. (Păvăloaia & Necula, 2023) . System good law need system technology digital information for realize convenience access (benefit , certainty , and justice). This done solely For make modern institutions , modern justice based technology is prerequisite organization simple , fast and low- cost justice light as well as as effort For increase access to justice (Hamzah, 2023) .

The integration of Artificial Intelligence (AI) technology has give impact significant positive on various fields , including its use in practice law (Sebayang et al., 2024) . Although MA through various its policy has make an effort For apply technology in management information required internally by the organization and the seekers justice and users court (Obrusna & Ivanova, 2020) . However thus , with existence development needs , up to now Still Lots arise complaint from the seekers justice . On the other hand , the internal organization of the Supreme Court and the judicial bodies under it are also still feel the need One policy system comprehensive and integrated IT management , for facilitate and speed up the implementation process duties and functions in each work unit (Mansyur, 2015) . With thus can expected the occurrence improvement quality service information to public .

Modern court/ justice in system justice criminal law in Indonesia is device the law as it should be has embedded , and of course just become need all citizens necessary, even is a condition sine qua non for sustainability discourse law and justice between citizens and institutions justice in the modern adult state this . At this point this is it supreme court with through directions Updates technology information (IT) (Isisu et al., 2023) . Having management information that guarantees accountability , credibility and transparency as well as become modern integrated IT- based organization is one of the support important that will push the realization of the great Indonesian Judicial Body (Mansyur, 2015) . Therefore that , all stakeholders interests within the Supreme Court and the judicial bodies beneath it put IT improvement as one of the priority change .

The Role of Technology Information (IT) in Updates Justice always done in implement realization organization simple , fast and low- cost justice light as well as as effort For increase access to justice . Based on experience in many countries, the use of IT is still focus on efforts recording electronic only . IT has not optimized in a way maximum For in a way progressive increase performance of the judicial body . Therefore that , IT initiatives are carried out No give results satisfying for institution justice . One of the the cause is a Judicial Body fail in set role and direction IT strategy in organization justice That Alone (Isisu et al., 2023) . Failure This potential create inability in picking results maximum , even in IT implementation Alone .

Application of IT in the Judicial System consider dynamics and potential changes occurs , especially in guide changes made in a way radical in the ongoing work process This applies . So , it is necessary There is business Serious For overcome inefficiency and potential abuse authority consequence weakness regulations and formal rules of the game that apply . In other words, it is necessary There is clarity direction strategic used as base For formulate and determine the role and position of IT as instrument strategic supporter in do modernization of the judiciary . In addition , the Supreme Court feels need For do synchronization between role and support technology to applicable regulations in the Judicial Body . With that's it modern justice plays a role his role For strive and ensure equal access to institution access to court and justice . through use of legal instruments and technology forward , and supported by sources Power yes progress too (Indonesia, 2010) .

Frequently with increase demands will governance effective, efficient, transparent and accountable justice is realized through simple, fast and low cost light

as well as as effort For increase access to justice based optimal utilization of ITC (information, communication, and technology) through online services . This is in accordance with the Intent and Purpose of the Regulation Supreme Court of the Republic of Indonesia Number 6 of 2022 Concerning Unit Administration Submission of Legal Efforts and Cassation and Review Hearings at the Supreme Court Electronically as per Article 2 of the Regulation This Supreme Court is one of base laws and guidelines for The Supreme Court and the judicial bodies under it and the Parties in carry out administration and trial case cassation and review return in a way Electronics . Article 3 of the Regulation This Supreme Court aiming to : a. improve access public to justice; b. to realize procedure simple, fast and cost effective litigation light; c. increase transparency and accountability in procedure litigious; and d. realize a modern and professional court with utilise progress technology information (Sitepu & Hasnda, 2024) .

Mature This, ITC (Information, Communication, and Technology) has become One strength booster main (main driving force for organization modern justice . In order to realize vision Supreme Court " The Realization of the Supreme Indonesian Judicial Body ". In print blue This poured out efforts repair For to realize the supreme Indonesian judicial body. The Supreme Indonesian Judicial Body, ideally, can realized as a Judicial Body which (Indonesia, 2010): 1) carries out function power judiciary in a way independent, effective, and fair; 2) supported management budget based on performance in a way allocated independent in a way proportional in the APBN; 3) has structure proper organization and management clear and measurable organization; 4) organize simple, fast, accurate case process management and administration time, cost light and proportional; 5) manage means infrastructure in frame support environment safe, comfortable and conducive work for organization justice; 6) managing and fostering source Power competent human being with criteria objective, so that created personnel justice with integrity and professionalism; 7) supported supervision in a way effective to behavior, administration, and running justice; 8) service oriented prime public; 9) has management information that guarantees accountability, credibility, and transparency; 10) modern with integrated IT based.

Moreover Again with focus on development management information that guarantees accountability , credibility , and transparency and modern justice with integrated IT based . Development of management system information that guarantees accountability , credibility , and transparency and modern justice with IT based is also necessary associated with implementation organization simple , fast and low- cost justice light as well as as effort For increase access to justice .

With use device technology , namely with utilise artificial intelligence (AI) machines , Utilization this artificial intelligence system will Keep going developed including in court level first and appeal level for help performance Handling case with still No ignore role man as subject mover mainly , because No can denied that progress of the times This Keep going leading to the use of device intelligent which is significant capable give accuracy and precision in help tasks and jobs We in give the best service for the seekers justice .

System justice Keep going develop along with change need the society they serve . Technology is booster change this and tools For fulfil ongoing needs emerging AI technologies moment This Already capable answer need community and directly felt its benefits , even existence AI technology today A little the amount has change behavior and patterns think society in Indonesia. So that's why see existence shift paradigm society and its needs in the field law , law as it should be must capable directing and accommodating needs in accordance with awareness law a developing society to direction modernization in everything field .

Methods Research

Study This is study legal normative in nature descriptive analytical with describe , examine , explain as well as analyze regulation legislation relating to the objectives research . The approach used in is approach regulation legislation (statute approach) and approach conceptual (conceptual approach). The data used in study this is primary and secondary data with technique study data collection field research and studies library research. Data collection tools used is studies documents (documentary research) and guidelines interview . The data that has been collected furthermore analyzed with method qualitative data analysis .

Result and Discussion

Judiciary with work system based on ICT and Artificial Intelligence (AI)

Basically, Artificial Intelligence (AI) is a technology that has experience long and continuous development time, technology This has influence life humans. Russell Norvig defines AI as " a computing program capable of give ability to machine For functioning like intelligence humans, such as take decision, solve problem, and do predictions." Because AI can own almost ability equivalent with human, technology This often called as Intelligence External or External Intelligence.

The idea of AI work refers to simulation intelligence man in a the machine the program runs on make it possible think and act as if like human . Concept this can also applied to technology or the machine that shows properties similar thought humans , through the learning process For acquire and organize information . Reasoning method used For reach estimate and will produce conclusion as well as correct self . AI is designed For copy intelligence human and then implemented in a programmed machine For operate task with level high and consistent accuracy .

AI at work through a computer program with merge a number of big data in fast and repetitive , and apply algorithm smart . With method this , device software and programs can Study in a way automatic from existing patterns and features in data. AI has ability For understand and analyze various problem with method study data through algorithm that has been designed with Language systematic programming . If we observe pattern work on AI, can explained as the tendency to anthropomorphize which involves activities and senses man following This (Rukundo, 2020) :

- 1. Learning: AI can own ability For acquire and process information latest and new.
- 2. Reasoning: AI can do manipulation a information with various method.

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- 3. Single Source of Truth: AI can determine validity from information that has been manipulated .
- 4. Seeing Relationship: AI can do forecasting about How a data can connected and interact with other data.
- 5. Considering Meaning: AI can determine truth in something the situation that originates from the data in consistent .
- 6. Separating fact from Belief: AI can differentiate between facts and beliefs

With notice the tendency to anthropomorphize, AI has potential For contribute in reach purpose, processing data for use reach objective and collect data for understand the desired goal achieved. Because it depends on data, there is four (4) ways For categorize AI, namely: a. Acting Humanly: (Sebayang et al., 2024) Computer programs that are connected with AI trying truly For copy behavior human and then rated through the Turing test. The success of AI as a computer program achieved when man difficulty differentiate between AI created by technology with man indeed. As example, when somebody interact with customer service or call center from a application services that are increasingly sophisticated and equipped with AI programs, it's difficult for man For differentiate whether they currently speak with fellow man or with AI using NLP (Natural Language Processing) technology, knowledge representation, automated reasoning, and machine learning. b. Thinking Humanly: Computer programs that are connected with AI has ability For think like human and carry out the usual tasks carried out by humans, requires intelligence man For achieve it. As example, driving vehicle autonomous (self-driving vehicle). In this case this, AI can do three type approach, namely First introspection where AI tries detect and document techniques used For reach a objective with compare and monitor existing data . The second is psychological testing, meaning that AI observes behavior human and add it to in a database of similar behaviors when faced with situations, goals, and resources the same power. Then the third is brain imaging, namely AI trying monitor activity brain in a way direct use technology such as computerized axial tomography, positron emission tomography, magnetic resonance imaging, and magnetoencephalography. This data Then used For create simulation models and programs of the model . c. Thinking rationally: Computer programs that are connected with AI will Study How man think normally for increase understanding about trend behavior common human being. If a person man considered rational when act in range behavior that is considered normal, then computer can considered rational when use recorded behavior For produce instruction in interact with environment, based on the data it has . The approach This aiming For solve problem in a way logic . d. Rational Action : A computer program that is connected with AI will Study How man act in situation certain with specific limitations, and then determine efficient and effective method. AI that thinks in a way rational will take notes interaction with environment based on conditions, factors environment, and available data. As As a result, AI can to form baseline and do negotiation For reach goals and finish problem.

The urgency of AI in realizing simple, fast and low-cost justice

Artificial intelligence (AI) technology will be embedded as a decision support system (DSS), at the Supreme Court (MA) 4 judicial environments work more

efficiently and transparently. This is part of an effort to strengthen law enforcement by using Artificial Intelligence in the aspect of facilities and infrastructure. According to Soerjono Soekanto, law enforcement can be influenced by legal factors, law enforcers, facilities, society, and culture. This is done because information technology in various aspects of life, including artificial intelligence (AI) is an inseparable part of the Supreme Court's efforts to adapt to the progress of the times by integrating AI into the judicial system process. Legal factors that is regulation legislation that regulates about problem certain . Related with technology information , the ITE Law is one of the product the law that governs related with transaction electronic or related with the virtual world. Enforcement factors the law , namely police , prosecutors , judges who have integrity and capability to related issues with A action law , for example those related to with the virtual world or Can called with the cyber world . Social factors , namely related with need public to regulation and enforcement law on A related actions with the virtual world. Cultural factors that is related with culture public in influence on A law .

Facilities and infrastructure factors that is related with tool or the device used For support implementation enforcement law . This factor become the most important factor in implementation enforcement related laws with AI. AI is device or tools that can help enforcer law in do enforcement law . Successful examples done in enforcement law using AI namely implementation of e- ticketing , where e- ticketing avoid the occurrence act other crimes such as bribe to a enforcer law .

Utilization AI technology in line with vision Supreme Court for create system fast, modern and law-based justice in Indonesia technology information. AI is very helpful use For to organize administration more justice efficient and transparent. The use of artificial intelligence (AI) in handling cases will be more efficient. The process of examining files and determining the panel, which is usually done manually by judges, can now be replaced by machines. This means that there will no longer be a pile-up of case files every day, so that the judiciary can focus more on its main tasks of holding trials, looking for evidence, and issuing decisions.

The increasingly widespread use of AI for the needs of society cannot be separated from its use in the legal world, one of which has been adopted today is the E-Court application launched in 2018 by the Supreme Court. Furthermore, on August 18, 2023, coinciding with the commemoration of the 78th Anniversary of the Supreme Court, the Supreme Court again launched 5 (five) AI-based applications. The five applications in question are Smart Majelis , Court Live Streaming, Satu Jari, Lentera 2.0, and e-IPLANS. Chairman Supreme Court of the Republic of Indonesia Syarifuddin said , " application This show commitment towards a great and modern Indonesian judicial body , as mandated print blue Updates Justice 2010-2035 .

AI also helps clerk court in carry out the registration process case through application electronics . If previously clerk court required For process application incoming matters manually , now work the done by machines . Machines will process information entered by the applicant For furthermore verified , where is the file? the matter that passed to stage trial and where are the files what is stated No complete . AI will give report about How many amount plaintiff , type case what is requested , and where is the location his trial . " After file case processed , AI will send bill cost

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things to do paid by the applicant through the Supreme Court virtual account . All So all-round automatically , so that the service process Can completed in a way more fast ,

Of course just moment This , the adoption of AI in system administration case new used in the scope Supreme Court . Next , the system This will developed For examination matters criminal in court level first and court appeal level . The rapid development of AI has sparked polemics in the legal world. It must be admitted that the role of AI is only limited to assisting the case administration process and has not yet reached the stage of trial procedural law. Thus, the existence of AI encourages more transparent legal services, in addition to offering ease of business processes, AI technology also helps the Supreme Court to provide more transparent and accountable services.

In recent years, the Supreme Court has undergone a digital transformation to facilitate the work system and services to justice seekers. The implementation of electronic trials (e-court) has been carried out in cases that require defendants or witnesses to be separated by distance. The Supreme Court has also exchanged data with 9 state institutions through the Integrated Criminal Justice System based on Information Technology (SPPT-TI) to facilitate the tracing of case processes by law enforcement agencies. Submission of requests for searches, seizures and visits of prisoners has also been made easier through the online application e-Berpadu (Mansyur, 2015) .

Implementation of Justice in Indonesia with an ICT-based work system

The application of information technology is believed to provide benefits in terms of speed, consistency, accuracy and reliability. The use of information technology by the Supreme Court in the case handling process has been carried out since the early 1980s. The Supreme Court, from time to time, has always made various efforts to improve and develop information technology to support the implementation of judicial functions. These improvements and developments are not only in terms of hardware and software but also in terms of human resources (brainware). In fact, the Supreme Court has also issued various regulations that strengthen the use of information technology in the implementation of judicial functions. The historic momentum that marked a new era for the Indonesian judiciary in the use of information technology occurred in mid-2018, precisely on April 4, 2018. On that date, the Supreme Court issued Supreme Court Regulation Number 3 of 2018 concerning Electronic Case Administration in Courts. The regulation provides a legal umbrella for the implementation of e-court applications with three main features, namely: case registration (e-filing), down payment of court fees (e-payment) and delivery of notifications and summons to trial electronically (e-summons)", Regulation Number 3 of 2018 becomes a legal umbrella for the implementation of electronic trials (e-litigation) which allows parties to the case to submit answers, replies, and duplicates electronically. If the implementation of e-court goes according to plan, it will fundamentally change the practice of case administration services in court. The implementation of e-court will encourage the realization of "judicial integrity".

The need for a modern court/justice in realizing a simple, fast, and low-cost justice system is a conditio sine qua non by making information technology one of the main driving forces in, this is further strengthened by the existence of Artificial Intelligence (AI) or artificial intelligence is one of the results of the advancement of information and communication technology science that was created and has developed most rapidly and prominently in the last ten years. AI is an innovation in science and technology that is designed to make computer systems capable of imitating human intellectual abilities. AI is currently increasingly becoming a topic that is receiving widespread attention in the current digital era. In its development, AI has had a significant positive impact on various fields, the use of AI by industry is not only limited to the telecommunications industry sector, but also in the banking, manufacturing, service sectors, and even in the government sector (Ririh et al., 2020)

Implementation optimal utilization of ITC (Information, Communication, and Technology) through online services are performed through existence Regulation Supreme Court of the Republic of Indonesia Number 6 of 2022 Concerning Administration Submission of Legal Efforts and Cassation and Review Trials at the Supreme Court Electronically where point heavy regulation the in accordance with the purpose and objectives namely a. increasing access public to justice; b. to realize procedure simple, fast and cost effective litigation light; c. increase transparency and accountability in procedure litigious; and d. realize a modern and professional court with utilise progress technology information. It means with existence the more development technology, with use with the real use of artificial intelligence (AI) This part from update justice in realize modern court (modern court for make it easier access for seekers justice and as form transparency institution justice with prioritize principle access to court and justice (Rukundo, 2020)

The matter of becoming a condition sine qua non as an endeavor for technology and judicial reform. Reform means making system changes to improve the performance of an organization, institution, or state. In the context of the judiciary, reform aims to solve problems, improve performance and realize the principles of good judicial governance and good governance principles.

Conclusion

Various matter important the biggest from modern court, is integration of AI in law positive Indonesia at the moment This referring to the ITE Law, which regulates about Electronic Systems and Electronic Agents. Implementation system electronics and agents electronic subject to the same rights and obligations. However, the regulation of AI in the ITE Law has not fully comprehensive, which gives rise to uncertainty in determination the position of AI in law. Utilization AI technology in practice Indonesian law has started Of course only one of them by the Supreme Court using smart assembly application For choose panel of judges automatic based on factors certain. Use of AI for optimize device the law that becomes need seeker justice in reach out and get justice (access to court to justice), even is a condition sine qua non for realize simple, fast and low-cost justice light. Currently technology information has be on the whole judicial process activities in Indonesia as endeavor For make institution modern and trusted justice. The use of Artificial Intelligence (AI)

will impact on the Trial Court of First Instance can give benefit as Next among others (i) Can make it easier making minutes of the trial; (ii) Can speed up filing case; (iii) Can minimize the occurrence fraud in filing minutes of the trial; (iv) Can guard transparency and openness in filing minutes of the hearing; and (v) realize existence certainty law.

Suggestion And Recommendation

Utilization of Artificial Intelligence (AI) for give more services transparent and accountable and in a number of year Lastly , the Supreme Court has do digital transformation for make it easier system work and service to seeker justice . Implementation hearing in a way electronic (e-court) has done Supreme Court and 4 (four) courts justice below it justice general, religious courts, courts military and state administrative courts Can adapt quick with the use of Artificial Intelligence (AI) as part efforts and endeavors For become institution modern and trusted justice .

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