

An Innovation Research on the Cities GDP per capita Status in Chinese Jilin Province & ACM AM Turing Award Honors for the Foundational Contributions to Quantum Information Science Sustainably

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Article History	Abstract
Original Research Article	<p><i>The high-tech product is able to increase the GDP(gross domestic product) ratio gradually according to developing situation presently. It is to believe that the ratio will raise a certain one in near future because it has high-knowledge & high-science factor within knowing it to producing it from the transfer of laboratory to factory. So that the new product enables to exhibit in its market after it was made in a factory continuously through using our scientist and engineers behaviour positively. We must encourage the high-tech proceeding engineers etc. who will transform the idea stimulus into the searching behaviour in lab with other researchers through acquiring a certain project from the funding so as to erect the experience and knowledge after several years that makes the sample into product entering current market to complete the receiving the order and transiting the cuisine to customers. That will be said that automatic changing to artificial intelligence one in order to promote the time and efficiency at all through the huge change said “let it do” changed to “it can do”. we should continuously enhance its function and upgrade it & make its stability that means it can undergo a long time to serve as a like humanoid robot that may sometimes exhibit in our canteen as an automatic and artificial intelligence one to save some money while promoting its quality and efficiency concept. Thereby, the GDP increasement will coordinate the infrastructure and industrial innovation, and the latter includes high-technique product making ones. We may continually improve our capacity to make a new high-level product for the sake of promoting our industrial development with a certain value each year. The other one will be foreign trade exportation that may help us earn the foreign money to use in later urgent time. So the industry, learning, research & usefulness etc. procedures will be boosting that combines into university, institution, factory & office four aspects cooperative spirits and culture for the sake of building a good future. Thereby, the certain high-level experts and scientists will help us to realize early the comprehensive and expertise knowledge about searching for some difficult projects that may increase the high-technique contained amount with their deductive models with mathematical knowledge and experience ones. So there will be so many achievement for us to proceed and make mature products within the technique transformation from base to application eventually dedicated to the demands of this society.</i></p> <p>Keywords: innovation; Cities GDP per capita Status in Chinese Jilin Province ; ACM AM Turing Award Honors; Research.</p>
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1. Introduction

The nations & regions GDP will represent their comprehensive strength in views of economy level and quality, so searching it may have an important effectiveness for us to process statistic with the national producing amount every month, season and year. In the meantime, the value with y-y has also a significant meaning that reflects the economy growth step because we should clarify the increasing change so as to evaluate the increasement and declination value precisely. The positive y-y value may mean the good and rapid economy developing status whilst the minus one may state the bad and slow economy step. So we judge the economy developing enhancement and decrease through that y-y value for a certain period. Thereby, the detail discussion will include in the following aspects. The GDP which indicates national economic status has provided an important role in every aspect in the world. So that the population increasing rate would be maintained for the sake of raising high-technique product with the entire industrial chain constantly which might enhance our new-quality-productivity. Hence we should consider the effective factors for example the population quantity, new quality productivity with high-technique etc. like big plane electric vehicle battery AI robot quantum computer medicine making disease diagnosis AI(artificial intelligence) ocean source space exploration nuclear generator etc. other ones. Low population enables to offer high life & quality with improving GDP per capita value. Meanwhile, it can enhance the national whole GDP value and help us to boost the economic recovery and many things to do. So the certain population is about to improve our national confidence some degree and make us to become priority one as early as possible even the super-country to lead the world to leadership right.

In contrast, the GDP increasing rate may play a significant role with regulating population increasing rate mutually and cooperatively. Hence the two aspects may be emphasized and paid attention to in thriving the whole national economic developed degree through enough wielding our generations positively and efficiently by our government institution endeavor and evaluation. For the sake of making relevant policies and allocating capital into the necessary industries the corresponding strategic plan needs to be made under various background and entities. Then the according monitor and estimation will be followed and estimated periodically and frequently by the observer in government's institution. At last as to the developed speed in one nation the corresponding population increasing quantity and high-technique product producing will be discussed and considered more precisely and correctly according to the near past years experience and variation. [1~16]

2. Discussions

In this paper the detail GDP value is going to be discussed as above parts through comparing the various regions for the sake of enhancing corresponding tactic in next year and futural several years. Eventually the regional GDP will be compared with their variation and then confidently make a strategic plan for concluding the past years and erecting new target that we pay much attention to raise our predicting value all the time. It is clarified that with regulating our aim the good achievement will be finishing in future that makes us to be more confident year by year for the sake of realizing the plan at present and in certain future. On the other side, we should learn and develop relevant project and subject to reveal the core one after their phenomena. Then we master that technique to apply to that kind of substance making ability through the engineers and scientists transformed to the R & D (research & development) department in makers. Therein, a sample will change into launch product by us to search for which may bring out new functional precise and quick responding to our request up to now. We should go on developing our similar functional equipment continually. At the same time, the scientists could complete defined projects through expending several years in universities and institutions for the sake of acquiring their high degree and some experiences for them continuously to process those cutting-edge-field projects independently and cooperatively. Thereby, we should foster and find them from the relevant activities like contest and achieved papers in high-impact-factor journal etc..we should need many of those experts level talents from universities' activity and mathematical contest who may occupy the top ten ones with excellent level score. [17~21]

2.1 The cities population & GDP per capita status in Jilin province changes

The cities populations & GDP per capita status in Jilin province changes in 2025 might show 3.5~1.6 million population by Jilin~Siping cities in light of Figure 1 accordingly to express their modest population level. The GDP per capita value might exhibit 6.6~5.0 thousand dollars by them accordingly exhibited the Jilin city fastest one.

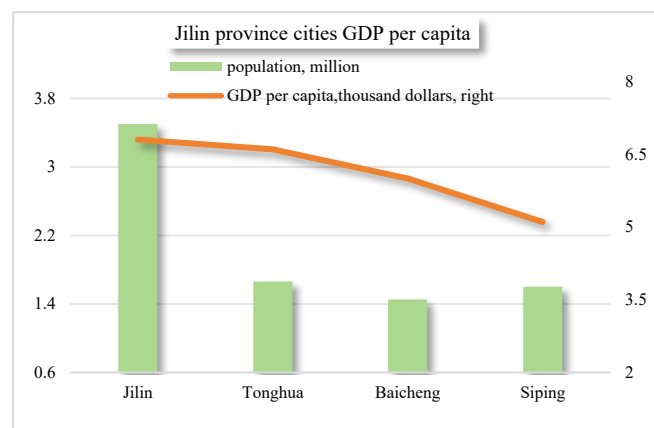


Figure 1 The cities populations & GDP per capita status in Jilin province changes in 2025. [1]

At the end, the cities populations & GDP per capita status in Jilin province changes in 2025 might show 9~2 million ones by Changchun~Songyuan cities in light of Figure 2 accordingly to express their forwards population level. The GDP per capita value might exhibit 12.3~7 thousand dollars by them accordingly exhibited the Jilin city fastest one. In contrast, the Songyuan & Yanbian dominated the second & third populations with mentioned & 1.9 million populations correspondingly.

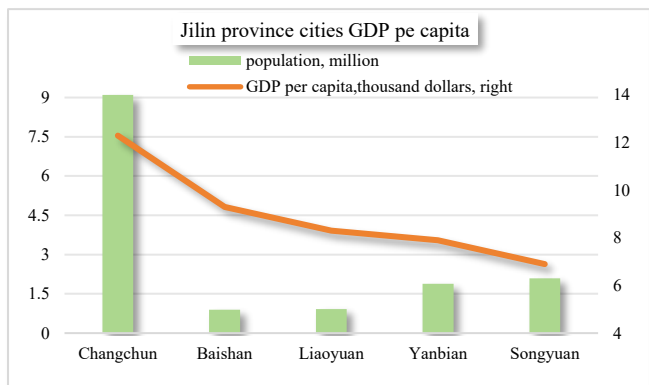


Figure 2 The top cities populations & GDP per capita status in Jilin province changes in 2025 I. [1]

Thereby, the Changchun city GDP per capita entered the one ten thousand dollars in Jilin province uniquely whose increasing times with Siping city attained 2.4 times. On the other side, The Baishan city GDP per capita followed Changchun one to complete 9.28 thousand dollars occupying second one and then there might be four cities exceeded that average ie. Changchun Baishan Liaoyuan Yanbian cities in turns. Moreover, the GDP's average y-y value reached 3.6% in 2025 whilst the GDP per capita indicated 7.69 thousand dollars.

2.2 China & Iran GDP per capita analysis

The China & Iran GDP per capita status might show 73 & 210 dollars accordingly in 1962 according to Figure 3 to explain Iran forwards economy strength. The y-y value might exhibit about -2% & 3% by them realized their modest step then.

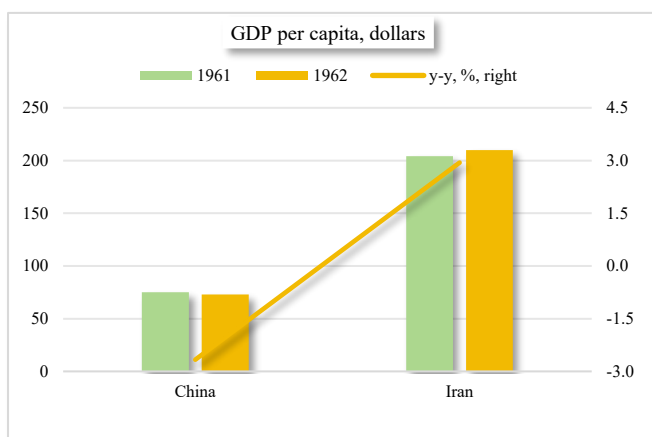


Figure 3 The China & Iran GDP per capita status. [2]

On the other side, the China & Iran GDP per capita status might show 116 & 425 dollars accordingly in 1970 according to Figure 4 to explain Iran forwards economy strength. The y-y value might exhibit about 10% & 12.5% by them realized their more moderate step then.

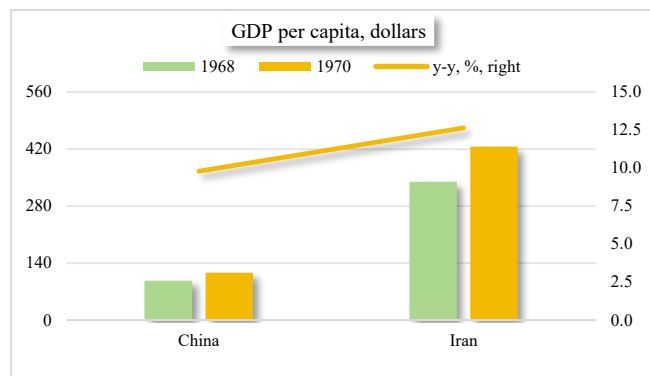


Figure 4 The China & Iran GDP per capita status I. [2]

On the other hand, the China & Iran GDP per capita status might show 286 & 4,120 dollars accordingly in 1985 according to Figure 5 to explain Iran forwards economy strength. The y-y value might exhibit about 7.5% & 13% by them realized their moderate step then.

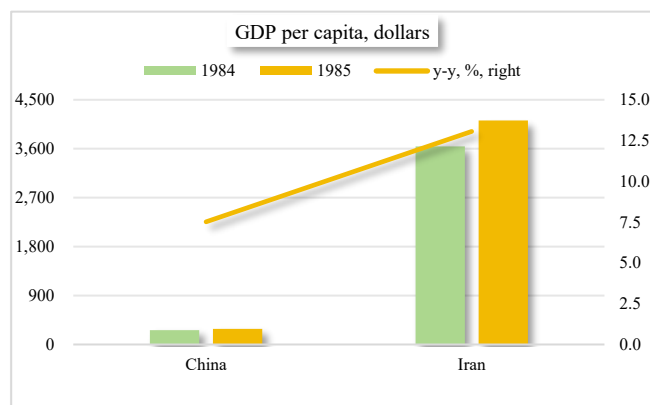


Figure 5 The China & Iran GDP per capita status II. [2]

At the end, the China & Iran GDP per capita status might show 370 & 998 dollars accordingly in 1992 according to Figure 6 to explain their modest economy strength. The y-y value might exhibit about -14% & 48% by them realized the Iran fastest step and China minus one then.

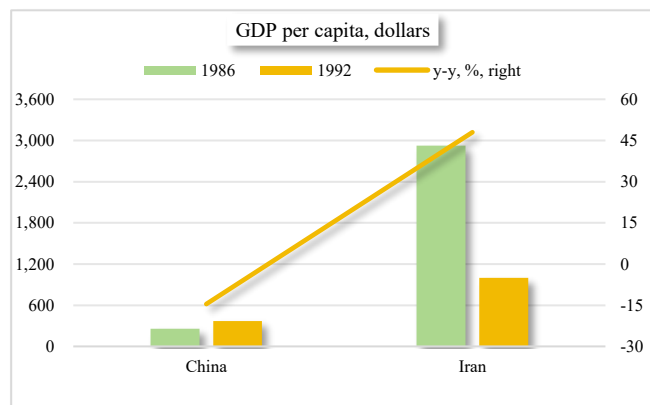


Figure 6 The China & Iran GDP per capita status III. [2]

2.3 Subject for the International Journal of Medical Case Reports and Medical Research

With regards to Dr. &Professors, greetings from International Journal of Medical Case Reports and Medical Research. [3] We would like to invite you to contribute a paper for publication in our upcoming issue for the journal. Our organization has nearly 40 clinical and medical journals. Select your journal and submit your manuscript. Thereby, it would be grateful if you would submit a paper for our upcoming issue. Research Article/ Review/Case Reports/ Short/Communication/Editorial/ Perspective/Mini Review/ Magazine/Book Review/Analysis/ Opinion/Commentary Articles etc., are welcome for possible publication in this issue. So that we could be pleased to invite all of the innovation papers wrote with English ones by all the authors around the world. We would appreciate receiving your submission on or before April 10th, 2026. Let us know your possible article submission date, if your manuscript is ready kindly submit now through our e-mail address with aditum.publishing@gmail.com or online submission system. Thank you for your time and consideration in this matter. I look forward to receiving your submission.

2.4 Subject for the ACM AM Turing Award Honors Charles H Bennett and Gilles Brassard for foundational contributions to Quantum Information Science

Breakthroughs in Quantum Cryptography and Quantum Teleportation Redefined Secure Communication and Computing. ACM (Association for Computing Machinery), the Association for Computer Machinery, today named Charles H Bennett and Gills Brassard as the recipients of the 2025 ACM AM (Alan Mathison) Turing Award for their essential role in establishing the foundations of quantum information science and transforming secure communication and computing. The ACM AM Turing Award, often referred to as the “Nobel Prize in Computing,” carries a \$1 million prize with financial support provides by Google, Inc. The award is named for Alan M Turing, the British mathematician who articulated the mathematical foundations of computing. Benett and Brassard are widely recognized as founders of quantum information science, a field at the intersection of physics and computer that treats quantum mechanical phenomena not merely as properties of matter, but as resource for processing and transmitting information. [4]

3. Conclusions

The nation's GDP will influence the one's economy development badness &goodness as an economic indicator. So that it can be simulated by economists in advance to forecast its approximation value according to the data mastered by us. An then, the detail and actual data may be published in accordance with each provinces and cities' actual value so as to correctly reflect the nation economy situation. With regards to developing of one nation the human live condition will be better and approaching a high level more and more under the

higher GDP value exhibition. So that we should consider and calculate more carefully to indicate the correct value for the sake of promoting continuously economy status and building a comfortable society day be day by our experts and scientists. On the other hand, the high-tech product is able to increase the GDP ratio gradually according to developing situation presently. It is to believe that the ratio will raise a certain one in near future because it has high-knowledge &high-science factor within knowing it to producing it from the transfer of laboratory to factory. So that the new product enables to exhibit in its market after it was made in a factory continuously through using our scientist and engineers behaviour positively. We must encourage the high-tech proceeding engineers etc. who will transform the idea stimulus into the searching behaviour in lab with other researchers through acquiring a certain project from the funding so as to erect the experience and knowledge after several years that makes the sample into product entering current market to complete the receiving the order and transiting the cuisine to customers. That will be said that automatic changing to artificial intelligence one in order to promote the time and efficiency at all through the huge change said “let it do” changed to “it can do”. we should continuously enhance its function and upgrade it &make its stability that means it can undergo a long time to serve as a like humanoid robot that may sometimes exhibit in our canteen as an automatic and artificial intelligence one to save some money while promoting its quality and efficiency concept.

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Ethic Declarations

The authors declared that there were not conflicts of interest.

References

1. Cities GDP & per capita status in Jilin, Mar 21, 2026
2. China &Iran GDP changes, Mar 24, 2026
3. E-Mail, Mar 23, 2026
4. ACM AM Turing Award, Mar 19, 2026
5. Run Xu, Zhenguo Li, An Innovation Searching for Analyzing the Chinese Top Four Provinces GDP & Tax Revenue with Top Provinces Status, MSI Journal of Economics and Business Management, 2 (1) (January - 2025), 1~11
6. Run Xu, Zhenguo Li, An Innovation Searching for Analyzing & Enhancing the Chinese Provinces GDP & Five Metropolitan Cities GDP Value, MSI Journal of Economics and Business Management, Volume-3, Issue-3 (March -2026), 1~12
7. Run Xu, Zhenguo Li, An Innovation Searching for Analyzing & Enhancing the Chinese Top Provinces'

GDP & Subject for the Archives of Engineering and Technology, MSI Journal of Economics and Business Management, Volume-3, Issue-3 (March -2026), 1~12, <https://zenodo.org/records/18944889>

8. Run Xu, Jing Yu, Guanghui Yu, Jiaguang Liu, Xianglan Piao, Changfu Jin, Zheman Lian, Dezhu Li, An Innovation Searching for Chinese provinces GDP Value analysis, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~11, <https://zenodo.org/records/18944950> **Impact Factor: 4.0**
9. Run Xu, Jing Yu, Guanghui Yu, Jiaguang Liu, Xianglan Piao, Changfu Jin, Zheman Lian, Dezhu Li, An Innovation Searching for Analyzing Five Metropolitan Cities GDP Value, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~11, <https://zenodo.org/records/18945054> **Impact Factor: 4.0**
10. [10] Run Xu, The Searching for Analyzing the Nation's Economy Strength GDP and The Top Nations' Industrial Production Comparison Sustainably through Observing Historical Statistic Value, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~11, <https://zenodo.org/records/18853698> **Impact Factor: 4.0**
11. Run Xu, The Searching for Analyzing the Nation's Economy Strength GDP & Top Nations' Industrial Production Comparison & China cities index of development etc. Sustainably through Observing Historical Statistic Value, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~11, <https://zenodo.org/records/18853807>
12. Run Xu, Zhenguo Li, An Innovation Searching for Analyzing the China & European Nations GDP & the World Cities GDP Changes through Sustainability, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~10, <https://zenodo.org/records/19055250> **Impact Factor: 4.0**
13. Run Xu, Zhenguo Li, An Innovation Searching for Analyzing the Asian Nations GDP Status by Sustainability, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~10, <https://zenodo.org/records/19062671> **Impact Factor: 4.0**
14. Run Xu, Zhenguo Li, An Innovation Searching for Analyzing the Chinese Part Central Provinces GDP & the Israel & Top Chinese Cities GDP Status Sustainably, MSI Journal of Multidisciplinary Research, Volume-3, Issue-3 (March-2026), 1~10, <https://zenodo.org/records/19061343> **Impact Factor: 4.0**
15. Run Xu, Zhenguo Li, An Innovation Searching for Enhancing the China Foreign Trade Trillion Yuan Provinces Value & China Cites' GDP per capita on Scientists Sustainably, MSI Journal of Economics and Business Management, Volume-3, Issue-3 (March -2026), 1~11, <https://zenodo.org/records/19071683>
16. Run Xu, An Innovative Research about Booming GDP Enhancement with Chinese Hubei & Hunan Provinces, Additionally Stocks Sector Variations on Scientists by Sustainability, UAI J Mult Cul Stu., Volume-2 Issue-1 (January~February) 2026, 29~32
17. Run Xu, Changfu Jin, Yonggen Wu, An Innovation Research about Booming GDP Enhancement with Tokyo Korea Holland & Chinese Top Provinces on Scientist by Sustainability, UAI J Mult Cul Stu., Volume-2 Issue-1 (January~February) 2026, 25~28
18. Run Xu, Xianglan piao, Changfu Jin, Boyong Hur, Sugun Lim, Wanhao Wu, Guanghui Yu, Enji Li, An Innovation Searching for Retrieving Anhui & Hong Kong City and New Energy Vehicle Sale Amount and Singapore & Shan'xi Province's GDP Enhancements by Sustainability, UAI J Mult Cul Stu., Volume-2 Issue-1 (January~February) 2026, 33~36
19. Run Xu, Boyong Hur, Sugun Lim, Wanhao Wu, Guanghui Yu, Xianglan piao, Enji Li, An Innovation Searching for Retrieving Singapore & Shan'xi Province and Tokyo & Hong Kong City's GDP Enhancements and Nuclear-Energy Generating Electricity Amount by Sustainability, UAI J Mult Cul Stu., Volume-2 Issue-1 (January~February) 2026, 37~40
20. Run Xu*, Changfu Jin, Yonggen Wu, Tianyi Yan, Boyong Hur, Sugun Lim, Tao Yu, Wanhao Wu, Guanghui Yu, The Innovative Searching for Booming Tokyo City & Chinese Provinces' GDP Enhancement Variations on Scientists Publishing in Subjects & Recruiting Information for PhD by Sustainability, Isrg j. multidiscip. Stud. Volume-IV, Issue-I, 2026, 23~27
21. Run Xu, Boyong Hur, Sugun Lim, Wanhao Wu, Guanghui Yu, Xianglan piao, Enji Li, An Innovation Searching for Retrieving Shanghai & Anhui Provinces and Tokyo City's GDP Enhancement and Two Subjects for Scientist to Publish Sustainably, Isrg j. multidiscip. Stud. Volume-IV, Issue-I, 2026, 28~32