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Bio-financial technology, a wearable trade coordination tool

For the New York Financial Forum of qq.com

The rapid development of financial technology:

The author recently attended the Canadian Derivatives Conference, and was exposed to a combination of biotechnology and large data, used in investment decision-making, a financial technology that provides us with new tools. I hope that through this article to inform the readers of the latest developments and about the financial biotechnology.

First, what is bio-financial technology

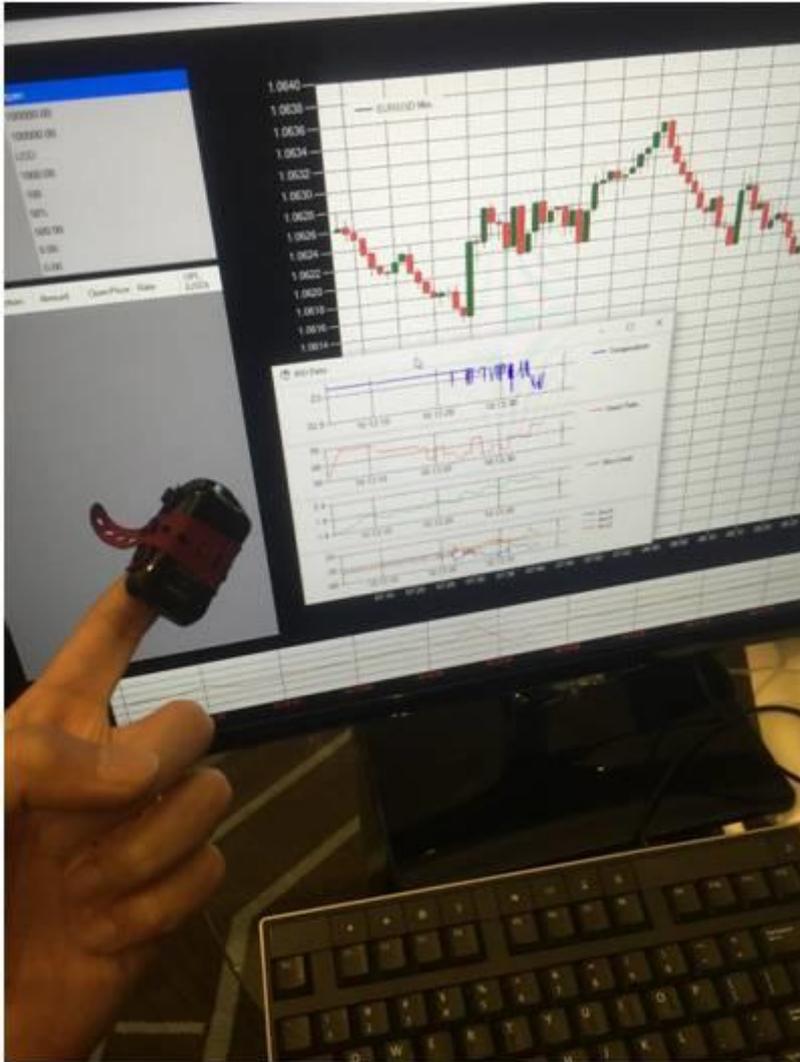
Psychology is a very important part of the trade for financial marketers who do long-term investment or speculation. Whether it is mainly engaged in the value of investment such as that conducted by Warren Buffett and other long-term investors, or in the Wall Street fast trade buy and sell hedge funds these experts are highly respected for psychology. For example, Buffett and Munger two good old friends, Dr. Robert Cialdini (Dr. Robert Cialdini) wrote the psychology of the famous "how to influence people" (Influence: The Psychology of Persuasion), is a must read for every investor. Hedge fund master Steve Cohen has equipped his trading floor with an American psychologist, on-site management of psychological changes. In Jack D Schwager's financial market expert series, the Market Wizard book has not only a lot of analysis about the psychological effects of the investment gurus, but also a few chapters devoted to psychological Analysis of the master.

For this reason, the I have studied these books on psychology but found that for many psychological activities are more difficult to use quantitative methods for analysis and practical use. Therefore, I have been very concerned about the research in psychology and it's transference into the practical side of trading and investment. Recently at the Canadian Derivatives Trading Conference, I saw a company in this area of innovation. I see this bio-financial technology product's R & D logic as: ***“the financial market volatility caused by human mental state and behavior patterns are likely to change, this change will be reflected in the heartbeat, breathing and other important human biological characteristics. However, each trader will be different for the degree of physiological response to market volatility, so how to model each individual to give the optimal response time and trading decisions?”***

Second, wearable technology

This wearable device at the Canadian Derivatives Conference is an initial attempt on this issue. The inventor of this patent (see note 1) is Ken Medanic, who currently lives in Canada and was born in a Croatian immigrant family. His company is headquartered in Geneva, Switzerland. Medanic led the research team over the past eight years to study how the various volatility of financial markets affect human decision-making patterns, the purpose of which is to provide asset portfolios, risk management and transactions based on the trader's physiological changes thereby providing for the best decision time. This device uses

microelectronics technology to obtain real-time trader's physiological data, based on large data calculation modeling, suggesting where to place specific market-based actions.

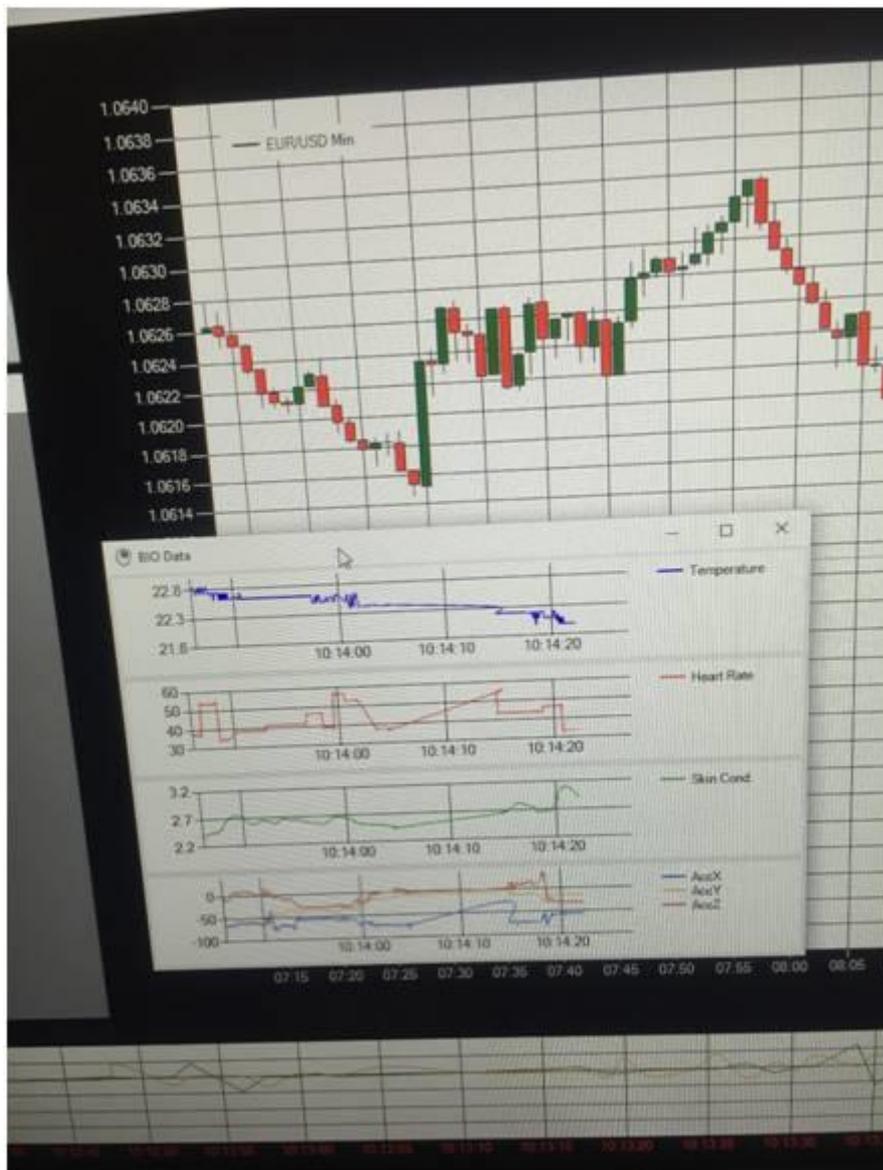


(I try the biotech wearable device, Photo By Kevin Chen)

At present, this technology is very frontier, and the author is very new to this field of experience. Imagine if the future of human traders are equipped with such a psychological testing equipment, and that it will reduce the risk of many extreme financial occurrences?

Third, the physiological trading system

The wearable device itself can only extract large amounts of data, but the data needs further analysis. Therefore, the trading system is the first way to extract data at a frequency of 300 Hz per second, including heartbeat, breathing, skin sweating, etc., and then real-time data uploaded to each fund manager and trader's account data platform. In the data platform, through the artificial intelligence model, the establishment of each fund manager and traders peak performance distribution intervals occurs.



(Author measured system data, Photo ByKevin Chen)

After each trader and fund manager has been experimenting for some time, the system can compare the internal library with a relatively optimized trading range and model. Then, use this model to provide optimal decision-making points and effect analysis of different decisions in future transactions.

Fourth. utility research and outlook

Through the use of biological data to help transact trades is a very emerging area, it is undeniable that in this area there are a lot of unknowns. Specific to the use of trading decisions or risk management is still a lot of challenges. In addition, to this system that the author has presented to you, Harvard University, has a team also conducting brain wave trading research. After the meeting with the inventor at the Canadian Derivatives, the author also saw some more detailed information on the biophysical website (<https://www.neurotrader.com/>).

Now there are companies that have developed chips that can be implanted in the human body that can identify the identity of a person, will the future of this type of biological data collection chip be planted directly into the trader or fund manager's body? In addition to the fact that physiological data can be used to improve performance in other areas, can be used for risk management? For example, on the trading floor, can the trader's physiological data once the individual's historical data reaches a certain extreme can the system can automatically notify the company's key control personnel and began to focus on the dealer's position of the risk exposure?

It is conceivable that in the years to come, with the rapid use of artificial intelligence and large data, the financial markets, participants and trading patterns and so on will be viewed through biodata and now the situation with this technology is a revolutionary difference. What we can do is understand and embrace these new technologies and embrace the future!

Note 1: has applied for patents in Geneva Psychophysically Enplused Systems and Securities Exchanges (Psychophysical Trading System and Stock Exchange)

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Dr. Chen Kaifeng, co-sponsor of the New York Financial Forum (NYFF), co-sponsor of the New York Financial Forum (NYFF), currently manages the global macro hedge strategy in New York University, New York University, New York, Pace University, Barcelona, Spain New York Center, and served as a member of the New York University College of professional part-time advisory committee, Professor of the Council. Dr. Chen is a member of the New York Economic Club, a member of the Foreign Policy Association, editor-in-chief of the Global Commodity Research magazine at the University of Colorado's Morgan Chase Commodity Research Center, and a member of the Center for Emerging Markets Research at the Moscow People's Friendship University

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